



"International Union of Radio Science" XXVIIth General Assembly

Maastricht 2002
17 aug - 24 aug



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XXVIIth General Assembly of the International Union of Radio Science

XXVIIe Assemblée Générale de L'Union Radio-Scientifique Internationale

**Maastricht Exhibition and Congress Centre (MECC)
Maastricht, the Netherlands
17-24 August 2002**

**Centre d'Exposition et de Congrès de Maastricht (MECC)
Maastricht, Les Pays Bas
17-24 août 2002**



THE INTERNATIONAL UNION OF RADIO SCIENCE (URSI)

The International Union of Radio Science (URSI) is one of the 26 International Scientific Unions, which adhere to the International Council for Science (ICSU). The Secretariat of URSI is located in Ghent, Belgium; URSI Secretariat c/o INTEC, Ghent University, Sint Pietersnieuwstraat 41, B-9000 Ghent, Belgium, website <http://www.ursi.org>.

The objective of URSI is to stimulate and to coordinate, on an international basis, studies, research, applications, scientific exchange, and communication in the fields of radio science. Included within the objectives are the following:

1. to encourage and promote international activity in radio science and its applications, for the benefit of humanity;
2. to encourage the adoption of common methods of measurement, and the intercomparison and standardisation of the measuring instruments used in scientific work;
3. to stimulate and coordinate studies of: the scientific aspects of telecommunications using electromagnetic waves, guided and unguided; the generation, emission, radiation, propagation, reception and detection of fields and waves and the processing of the signals embedded in them;
4. to represent radio science to the general public, and to public and private organisations.

The Members of the Union are the Committees, formed by Academies of Science or equivalent organisations, which adhere to the Union.

MEMBER COMMITTEES

At present, one or more Member Committees have been formed in the following regions: Argentina*, Australia, Austria, Belarus*, Belgium, Brazil, Bulgaria, Canada, Chile*, China, Czech Republic, Denmark, Egypt, Finland, France, Germany, Greece, Hungary, India, Ireland, Israel, Italy, Japan, Kazakhstan*, Malaysia, Mexico, the Netherlands, New Zealand, Nigeria, Norway, Peru, Poland, Portugal, Russia, Saudi Arabia, Slovak Republic, South Africa, South Korea, Spain, Sweden, Switzerland, Turkey, Ukraine, United Kingdom, USA, Uzbekistan* and Yugoslavia*.

Member Committees are not regarded by URSI as representing nations. Thus two of the above "regions" have two Member Committees each and one of the above, encompassing political independent states, has a single Member Committee.

Each Committee pays an annual contribution, which depends on the Category of membership in which it chooses to adhere.

Note: the Committees marked by asterisks (*) are Associate Members.

BOARD OF OFFICERS

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Vice-Presidents:	Kristian Schlegel (Germany)
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Coordinator	<i>Martin M.P. Hall</i> (UK)
Associate Coordinator	<i>Gert Brussaard</i> (The Netherlands)

Structure of the Local Organising Committee

Chair	<i>Frans W. Sluijter</i>	Eindhoven University of Technology
Associate Scientific Coordinator	<i>Gert Brussaard</i>	Eindhoven University of Technology
Chair, Sponsor Committee	<i>Wim L. Smith</i>	TNO Physics and Electronics Laboratory
Treasurer	<i>Gerard N. Verschuren</i>	Eindhoven University of Technology
Members	<i>Arnold van Ardenne</i>	The Netherlands Foundation for Research in Astronomy (Chair, Dutch National URSI Committee)
	<i>Hans Blok</i>	Delft University of Technology
	<i>Leo P. Ligthart</i>	Delft University of Technology
	<i>Wim C. van Etten</i>	Twente University
	<i>Peter P. Zwamborn</i>	TNO Physics and Electronics Laboratory
	<i>Bertram Arbesser-Rastburg</i>	European Space Research and Technology Centre
	<i>Emmanuel van Lil</i>	University of Leuven (Chair, Belgian National URSI Committee)
URSI GA 2002 Management Office	<i>Leon P. Kamp</i>	Eindhoven University of Technology

L'UNION RADIO-SCIENTIFIQUE INTERNATIONALE (URSI)

L'Union Radio-Scientifique Internationale (URSI) est une des 26 unions scientifiques internationales qui adhèrent au Conseil international pour la Science (ICSU). Le secrétariat de l'URSI se trouve à Gand en Belgique, website <http://www.ursi.org>.

L'Union Radio-Scientifique Internationale a pour but de stimuler et de coordonner, à l'échelle internationale, les études, recherches, applications, échanges scientifiques et transferts d'information dans les domaines des sciences de la radioélectricité, et plus particulièrement :

1. d'encourager et de promouvoir, à l'échelle internationale, les activités dans le domaine des sciences de la radioélectricité et de ses applications, au profit de l'humanité.
2. d'encourager l'adoption de méthodes de mesure communes, ainsi que la comparaison et l'étalonnage des instruments de mesure utilisés dans les travaux scientifiques.
3. de stimuler et de coordonner les études portant sur : les aspects scientifiques des télécommunications utilisant les ondes électromagnétiques guidées et non guidées ; la production, l'émission, le rayonnement, la propagation, la réception et la détection de ces champs et ondes, ainsi que le traitement des signaux dont ils sont porteurs.
4. de représenter les sciences de la radioélectricité auprès du public et des organisations publiques et privées.

Les membres de l'Union sont les comités, formés par les Académies des Sciences (ou des institutions analogues) qui adhèrent à l'Union.

COMITES MEMBRES

A ce jour, un on plusieurs comités membres ont été formés dans les régions suivantes: Afrique du sud, Allemagne, Arabie Saoudite, Argentine*, Australie, Autriche, Biélorusse*, Belgique, Brésil, Bulgarie, Canada, Chili*, Chine, Corée du sud, Danemark, Egypte, Espagne, Etats-Unis, Finlande, France, Grèce, Hongrie, Inde, Irlande, Israël, Italie, Japon, Kazakhstan*, Mexique, Nigeria, Norvège, Nouvelle-Zélande, Ouzbékistan*, Pays-Bas, Pérou, Pologne, Portugal, Républiques Tchèque, et Slovaque, Royaume-Uni, Russie, Suède, Suisse, Thaïlande, Turquie, Ukraine, Yougoslavie*.

Les comités membres ne sont pas considérés par l'URSI comme représentants des pays. Même si deux des régions mentionnées précédemment ont deux comites membres, chacune d'entre elles, renferment des états politiques indépendants, compte un comite membre.

Chacun des comités paie une contribution annuelle selon la catégorie d'association à laquelle il choisit d'adhérer.

Note: les Comités marqués par un astérisque (*) sont des Membres Associés.

BUREAU

Président:	Hiroshi Matsumoto (Japon)
Président sortant:	Thomas B.A. Senior (Etats-Unis)
Vice-Présidents:	Kristian Schlegel (Allemagne)
	Joseph Shapira (Israël)
	Andrzej W. Wernik (Pologne)
	Paul H. Wittke (Canada)
Secrétaire générale:	Paul Lagasse (Belgique)

PRESIDENTS D'HONNEUR

W.N. Christiansen (Australie)
W.E. Gordon (Etats-Unis)
F.L.H.M. Stumpers (Pays Bas)
J. van Bladel (Belgique)

SECRETARIAT

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Secrétaire Général Adjoint:	Frank Olyslager (Belgique)
Secrétaire Général Adjoint (Publications):	W. Ross Stone (USA)
Secrétaire Exécutive:	Inge Heleu (Belgique)
Secrétaire Administrative:	Inge Lievens (Belgique)

Coordonnateurs du Programme Scientifique

Coordonnateur	<i>Martin M.P. Hall</i> (Royaume-Uni)
Coordonnateur Adjoint	<i>Gert Brussaard</i> (Pays-Bas)

Structure du Comité Organisateur Néerlandais

Président	<i>Frans W. Sluijter</i>	Université Technique d'Eindhoven
Coordonnateur Adjoint du Programme Scientifique	<i>Gert Brussaard</i>	Université Technique d'Eindhoven
Président du Comité de Soutien	<i>Wim L. Smith</i>	TNO Physics and Electronics Laboratory
Trésorier	<i>Gerard N. Verschuren</i>	Université Technique d'Eindhoven
Membres	<i>Arnold van Ardenne</i>	Fondation Néerlandais pour la Recherche en Astronomie (Président du Comité URSI Néerlandais)
	<i>Hans Blok</i>	Université Technique de Delft
	<i>Leo P. Ligthart</i>	Université Technique de Delft
	<i>Wim C. van Etten</i>	Université de Twente
	<i>Peter P. Zwamborn</i>	TNO Physics and Electronics Laboratory
	<i>Bertram Arbesser-Rastburg</i>	European Space Research and Technology Centre
	<i>Emmanuel van Lil</i>	Université de Leuven (KUL), (Président du Comité URSI Belge)
URSI GA 2002 Comité de Direction	<i>Leon P. Kamp</i>	Université Technique d'Eindhoven

Getting Started

NAVIGATION BUTTONS - This CD-ROM contains a variety of navigational aids to help you easily explore its contents:

SECTION MAP - This Navigation Guide is constructed with bookmarks pointing to the various sections: e. g. Getting Started, Volumes, Table of Contents, Sessions, Authors, etc.
Click a bookmark to start viewing a section.

NEXT PAGE BUTTON - Click to advance to the next page in the section.

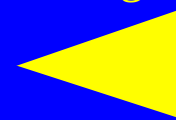
PREVIOUS PAGE BUTTON - Click to go back to the previous page in the section. The Page Up and Page Down keys perform the same functions.

HOME BUTTON - Click to return home - Page 1

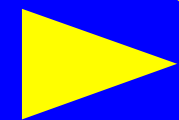
Home



Previous Page

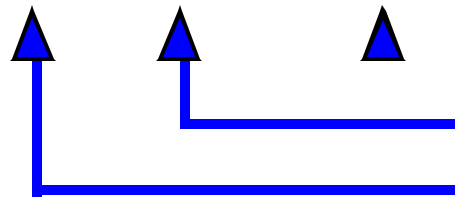


Next Page



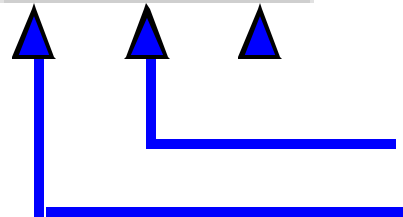
Getting Started

ACROBAT TOOLBAR



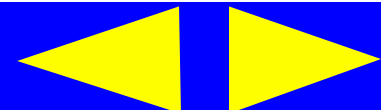
Display View Modes

Thumbnails and Page
Bookmarks and Page
Toggle Page only/Navigation Plane



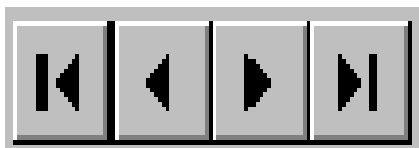
Zoom/ Selection

Select Text
Zoom Out (Cntl Zoom -> Zoom In)
Hand Tool



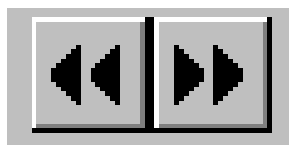
Getting Started

ACROBAT TOOLBAR continued



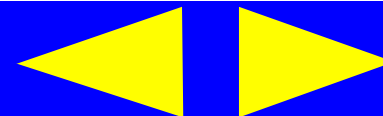
NAVIGATION - within a document

-  Go to the last page of the current document
-  Go forward one page
-  Go back one page
-  Go to the start of the current document



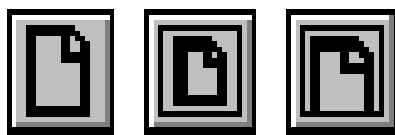
NAVIGATION - historical

-  Go forward one page in the history of all pages viewed
-  Go back one page in the history of all pages viewed

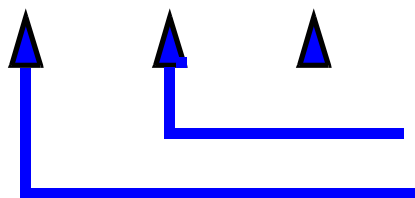


Getting Started

ACROBAT TOOLBAR continued



Current Page View



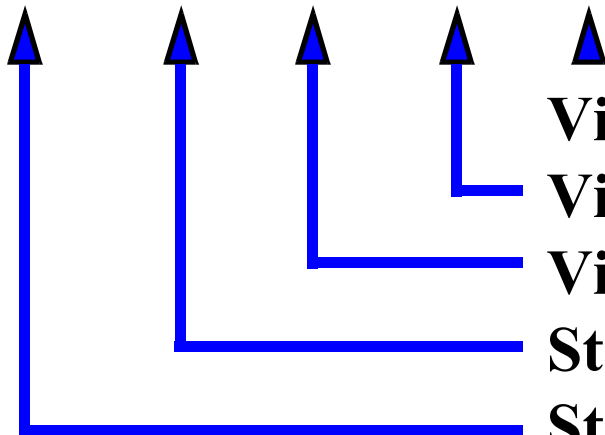
Fit Width of the Screen

Fit document page into the screen

View actual size



Find and Search



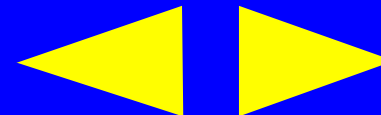
View next search results hit page

View previous hit

View Full- text search results

Start Full- text search

Start Find within current document



Getting Started

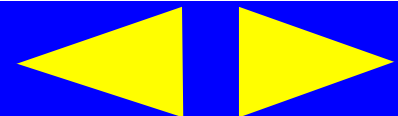
SEARCHING

Two types of search are possible with Acrobat: Find and Full-text search.

(See the icons on previous page in this Getting Started section).

Find opens a dialog box that allows searching for the typed string within the currently open document.

When you open the Symposium Proceedings you automatically attach a Full-text Search index into your Acrobat environment. This powerful index and the search tool, installed with Acrobat Reader, supports full Boolean Full-text search of the complete set of papers.



Getting Started

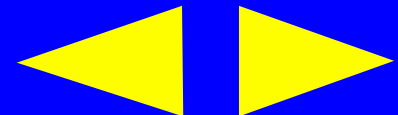
SEARCHING (continued)

Choosing the Search button or Search menu item (under Tools) opens a dialog box from which you can access the more powerful full-text search engine

Typing a term in this dialog box and pressing the “Search” button causes a full-text search of all terms in the entire CD.

If you are not finding the files you think should show in the results list, Acrobat may not be attached to the correct index file. To check, press the “Indexes...” button for a list of available indexes. If this title is not listed, press the “Add...” button and look in the root directory of the CD-ROM for a file called “index.pdx”. Click on that file to add it to the list.

See Acrobat Help for more complete instructions on selecting appropriate options, constructing boolean queries, etc.



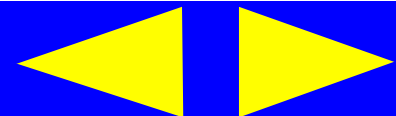
Getting Started

USING BOOKMARKS

In addition to links, you can navigate through the Proceedings using Bookmarks. To view them, choose “Show Bookmarks” from the Window Menu or press the Show/Hide Navigation Pane button on the Toolbar. A panel opens on the left side of the screen displaying Bookmarks in a hierarchy. Each Bookmark corresponds to a page in the Proceedings. Click on the text in a Bookmark to go to that page.

Entries with lower level Bookmarks show an box, minus sign when subordinate Bookmarks are visible, plus sign when hidden.

To view subordinate Bookmarks, click on the box. To hide them click on the box again. Dragging the right margin of the bookmark panel resizes it.





XXVIIth General Assembly of the International Union of Radio Science
Aug 17 - Aug 24, Maastricht, Exhibition & Congress Centre, The Netherlands

GENERAL LECTURES

THE PAST, THE GEOMETRY AND THE FUTURE OF THE UNIVERSE

John Carlstrom (USA)

HEALTH EFFECTS OF ELECTROMAGNETIC FIELDS

Michael H. Repacholi (Switzerland)

SYNTHESIZING OPTICAL FREQUENCIES WITH A FEMTOSECOND LASER

Theodor W. Hänsch (Germany)

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List of sessions organised by the Scientific Commissions

- [Commission A](#) – Electromagnetic Metrology
[Other joint sessions involving Commission A](#)
- [Commission B](#) – Fields and Waves
[Other joint sessions involving Commission B](#)
- [Commission C](#) – Signals and Systems
[Other joint sessions involving Commission C](#)
- [Commission D](#) – Electronics and Photonics
[Other joint sessions involving Commission D](#)
- [Commission E](#) – Electromagnetic Noise and Interference
[Other joint sessions involving Commission E](#)
- [Commission F](#) – Wave Propagation and Remote Sensing
[Other joint sessions involving Commission F](#)
- [Commission G](#) – Ionospheric Radio and Propagation
[Other joint sessions involving Commission G](#)
- [Commission H](#) – Waves in Plasmas
[Other joint sessions involving Commission H](#)
- [Commission J](#) – Radio Astronomy
[Other joint sessions involving Commission J](#)
- [Commission K](#) – Electromagnetics in biology and medicine

- [Local Organising Committee \(LOC\) Session](#)

[Scientific Session timetable](#)

I=Invited,

C=Contributed for oral presentation,

P=contributed for Poster session presentation.

Poster papers may be general for sessions DP, FP and GP or specific to oral sessions so indicated.

COMMISSION A: ELECTROMAGNETIC METROLOGY

Chair: [E. Bava](#) (Italy)

Vice-chair: [Q. Balzano](#) (USA)

A-Tutorial: COLD ATOM FOUNTAIN CLOCKS

[Christophe Salomon](#) (France)

Commission A Sessions

A1:	NEW DC TO RF AND SUBMM WAVE STANDARDS AND MEASUREMENTS (I, C, P) In this session a survey will be given over recent research work and new developments of standards and measurements in the frequency range from DC to RF and up to Submm waves. Interesting new developments applying high frequencies for high precision DC and AC standards will be included in the session. The reports will represent also a review about activities in the different countries. Dieter Janik (Germany) and Jan P.M. de Vreede (The Netherlands)
A2:	MATERIAL MEASUREMENTS (I, C) This session is concerned with material measurements on various aspects of radio frequency dielectric and magnetic measurements and theory. The main topics to be covered are the following: - experimental methods of dielectric and magnetic parameter measurements of microwave substrates, dielectric and ferroelectric thin films on ceramic substrates, - rf techniques applied for dielectric characterization of strongly absorbing materials, - progress in rf property measurements of dielectric liquids, - establishing and modeling the temperature and/or frequency dependence of the rf properties, - rf measurements specially designed for nondestructive materials testing. Finally papers should be specially encouraged that focus on the traceability and uncertainty analysis of measurement results, including also intercomparison studies between complementary material measurement techniques. James Baker-Jarvis (USA) and Roland Heidinger (Germany)
A3:	TIME AND FREQUENCY STANDARDS (I, C, P) The development of atomic time and frequency standards is a dynamic process, but in recent years progress has been particularly rapid with respect to properties of the standards and the capabilities for mutual comparisons, in the microwave as well as in the optical frequency domain. Several cold atom fountains have been developed, some have been inter-compared, and mutual agreement of the order of 1 part in 10^{15} has been demonstrated. Ultra-narrow resonances of optical transition lines have been observed using single trapped ions, and a maximum line quality factor in excess of 10^{14} has been reported. Optical frequency measurements have been reported for transitions in neutral hydrogen and calcium, as well as in indium, strontium, mercury and ytterbium ions. In addition to all that, there are several ongoing projects to develop atomic frequency standards for use in space. Cold atom

	standards are being developed for making use of the microgravity environment on the International Space Station, and hydrogen masers are being developed for use on the ISS as well as in the space segment of the future European satellite navigation system Galileo. Contributions to this session are solicited from all groups active in the various fields. Invited speakers present the current development in the given field, not only give a detailed account of their own particular work. We hope to gather a session as attractive as possible for a wide attendance of the General Assembly as it will not only cover the development of the standards itself but also applications like space exploration, time dissemination and fundamental physics. Poster contributions are also requested and these can be more specialized in their particular field. Young scientists are encouraged to seek support from the young scientist program. <u>Andreas Bauch</u> (Germany) and <u>Steve Jefferts</u> (USA)
A4:	OPTICAL FREQUENCY SYNTHESIS AND LASER STABILIZATION (I, C, P) The availability of new solid-state laser sources with unprecedented efficiency, widely tunable and inherently low noise, gave new pulse to the development of Optical Frequency Standards, whose frequency can now be directly measured against the Frequency Standards in the microwave region. The session intends to focus on recent progresses and possible improvements of high accuracy Optical Frequency Standards, Laser Stabilization techniques and Optical Frequency measurements. Topics for this session include the following and related topics: - Optical Frequency Synthesis and Measurements - Optical Frequency Standards, including cold atoms and trapped ions - Laser Stabilization - Precision Frequency Metrology - New Light Sources for Laser Spectroscopy and Frequency Metrology <u>Ikegami Takeshi</u> (Japan) and <u>Fabrizio Bertinetto</u> (Italy)
A5:	MEASUREMENTS ON TISSUES (I, C, P) This session is on techniques used for measurements of dielectric and thermal characteristics of human and laboratory animal tissues and the results obtained, including in-situ and excised tissue. The topics of main interest are: 1. Improvement in the reliability of current methods of measurements of dielectric properties, thermal capacity and thermal diffusion of tissue. 2. Methods of extrapolation to in vivo values. 3. Temperature effects in models of dielectric and thermal properties. 4. Organ and sub-organ specific results. 5. Methods to estimate maximum or minimum values expected in the population. 6. Age dependence of organ and sub-organ specific values. Authors are invited to focus on the tractability and uncertainty analysis of various methods of measurements. Papers presenting the differences of dielectric and thermal capacity values of tissue versus age of the subject and time since excision are of particular interest, if the underlying biochemical and physical causes of difference are clearly established and analysed. <u>Quirino Balzano</u> (USA) and <u>Christopher C. Davis</u> (USA)

Joint sessions led by Commission A

AB1:	ANTENNA AND ELECTROMAGNETIC FIELD MEASUREMENTS (I, C, P) The accurate generation and measurement of electromagnetic fields have gained increasing attention in the EMC, telecommunications, and remote sensing communities. Commensurately, there has been a growing interest in the characterization of newly developed antennas, like ultra-wideband pulsed antennas and microstrip patch arrays, as well as in the formulation and design of accurate measurement systems using near- and far-field scanning techniques in the time and frequency domains. Reducing the unwanted interactions of antennas with their scanning probes and
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	surroundings by means of frequency and time domain transforms and gating techniques may be important for reducing measurement errors and accurately determining the desired antenna parameters. Especially for EMC testing, comparison and characterization of different test ranges like semi- or fully-anechoic, reverberation, and mode-stirred chambers are encouraged. <u>Thorsten Schrader</u> (A, Germany) and Arthur Yaghjian (B, USA)
AB2:	TIME-DOMAIN MEASUREMENTS AND ANALYSIS (I, C, P) This session will address the following special areas: - Generation and measurement of transient electromagnetic fields. The special targets are the design and practical experience with pulse test facilities like EMP-simulators, TEM-cells and other generators for field pulses. Ultra wideband field sensors are also interesting. - Interaction of transient electromagnetic fields with modern electronics. The prediction of damaging effects for transient field pulses like Nuclear Electromagnetic Pulse (NEMP), Lightning (LEMP), Ultra Wideband Pulses (UWB) and High Power Microwave (HPM) are of special interest. - Time domain behavior of lossy transmission lines. In particular Multi Conductor Transmission Lines for data communication shall be discussed. - Effects of realistic spectral transfer functions to time domain applications. <u>Heyno Garbe</u> (A, Germany) and Anton G. Tijhuis (B, The Netherlands)
AC1:	ADVANCES IN SYNCHRONIZATION BETWEEN SATELLITES AND GROUND (I, C, P) The session will be dedicated to an overview of the state of the arts, in terms of methods and accuracy, of time transfer using satellites facilities, mainly GPS and GLONASS. Potentialities of GALILEO are welcome. The modeling of ionospheric and tropospheric perturbations acting on the signals will be considered. <u>Paul Paquet</u> (A, Belgium) and Sigfrido Leschiutta (C, Italy)
AC2:	FREQUENCY STANDARDS IN OPTICAL AND RF TELECOMMUNICATION SYSTEMS, APPLICATIONS AND REQUIREMENTS (I, C, P) Increasing the transmission capacity of advanced telecom systems requires sophisticated multi-channel transmission and high-performance modulation schemes. One important part of these systems are the required frequency standards, which are optical frequency standards in the case of Dense Wavelength Division Multiplexing (DWDM) systems or precise rf-frequency standards for e.g. time-division multiplexing systems. For these applications, not only accuracy but also size, cost, efficiency and reliability under harsh environmental conditions are major issues. The main goal of this session is to promote the exchange of information between the development engineers, scientists and users. Topics include the following, and related subjects: - passive and active frequency standards - long term stability - frequency synthesis - realization of frequency grids - wavelength/frequency locking techniques - clock requirements in wireless systems - clock requirements in optics systems - clock requirements in software defined radio technology <u>Uwe Sterr</u> (A, Germany) and Letizia Lo Presti (C, Italy)
AD:	INTERCONNECTS AND PACKAGING IN HIGH-SPEED ELECTRONICS (I, C, P) Traditional VLSI-based cost and complexity measures have principally involved transistor counts and chip area. At present the emergence of systems on silicon faces designers with a new challenge: how

	to guarantee signal integrity while propagating high-speed signals between embedded cores on a chip. Thus, interconnects on chips as well as packages are becoming a significant limiter of future system performance. The elements involved are mainly transmission lines but also other interconnect devices like vias and pins. The electrical phenomena that have to be investigated, as for example delay and crosstalk, are governed by electromagnetic theory. Consequently, even in digital circuits there are large sections in which the signals can no longer be considered logical ones and zeros but must be treated as analog waveforms. To complicate matters, the description of subcircuits by ordinary differential equations is inadequate in many instances. Only the use of Maxwell's equations, i.e. partial differential equations should guarantee sufficiently accurate results. Yet this would unfortunately increase the complexity of simulation and design tremendously. Therefore, new smart approaches need to be developed. In any event, it becomes obvious that designers will have to enter the world of electromagnetic fields. But to what extent? Last but not least to help answer this question and to contribute to solve the problems posed by interconnects is the task of this session. Consequently, the main topics of the session should include, but are not limited to,: - Delta I-Noise - Broadband Measurement Techniques and Theory - Coupling Effects on Interconnects - Determination of Characteristic Parameters - Field Theory - Ground Bounce - Guided Waves on Interconnects - Measurement, Modeling, and Simulation of Interconnects inside of Packages - Propagation Characteristics on Signal and Ground Lines - Radiation and Interference - Simulation Techniques for 2- and 3-dimensional Interconnect Structures - Substrate Influence on Signal Propagation - Interconnects and Testing Hartmut Grabinski (A, Germany) and Stavros Iezekiel (D, UK)
AE:	EMC MEASUREMENTS (I) EMC Measurements constantly develop as electronic technology changes. New challenges occur and, in particular, two trends are worth highlighting. The first is the current trend to use microwave radio systems embedded into IT networks of all kinds which is producing the need for effective EMC measurements that can be applied at these higher frequencies along with measurements that are appropriate to digital electronic systems where failures or system stress may be masked by error detection and correction techniques. The second is the pressing need for effective EMC measurements on large systems such as vehicles which cannot be easily tested in a conventional test environment. Contributions on these and other EMC Measurement topics are requested. Andrew C. Marvin (A, UK) and Jon Schoenberg (E, USA)

Other joint sessions involving Commission A

[CAF](#) [CFA](#) [CFAB](#) [DJA](#) [EA](#) [KA](#)

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COMMISSION B: FIELDS AND WAVES

Chair: **S. Ström** (Sweden)

Vice-chair: **M. Ando** (Japan)

B-Tutorial: INVERSE SCATTERING AND ITS APPLICATIONS TO SUB-SURFACE SENSING AND MEDICAL IMAGING

[Peter van den Berg](#) (The Netherlands)

Commission B Sessions

B1:	ELECTROMAGNETIC THEORY (I,C,P) This session focuses on the fundamental aspects of electromagnetic theory in a broad sense. It includes new solution methods and approaches for problems in electromagnetics, as well as other theoretical aspects of electromagnetic theory. Advances in mathematical methods are of interest. Contributions to basic modelling of complex and nonlinear materials and to new approaches for solving wave propagation problems in these materials are especially welcome. Paul D. Smith (U.K.) and Ismo V. Lindell (Finland)
B2:	SCATTERING AND DIFFRACTION (I,C,P) The Session will review topics covering a wide range of scattering and diffraction problems, including edge diffraction, use of artificial structures for optimal control of wave propagation, scattering from disordered media and potential applications. Study of scattering from non-linear/anisotropic media as well as mathematical problems will also be emphasized. A bridge to "Inverse Problems" will be built covering scattering/signal processing for polarimetric data. Karl J. Langenberg (Germany) and Marc Saillard (France)
B3:	TIME DOMAIN ELECTROMAGNETICS (I,C,P) This session is intended to survey the present status and the anticipated future capabilities of time-domain EM computer models, including those based on both integral and differential equations. Recent developments and extensions to such models are to be covered as well as their computer resource requirements and representative applications. Also to be emphasized is the interpretative opportunities time-domain solutions offer with respect to basic electromagnetic physics and phenomena. Edmund K. Miller (USA) and Rafael Gomez Martin (Spain)
B4:	INVERSE SCATTERING AND IMAGING (I,C,P) This session covers contributions that detail new advances in the theory, their methods and applications. This includes the development of efficient and rapid algorithms for solving linear and nonlinear inverse scattering problems in areas such as geophysical probing, remote sensing, non-destructive testing, medical imaging, target identification, etc. Methods which employ DC, monochromatic, multi-frequency and transient domain data are also within the scope of this session. Gerhard Kristensson (Sweden) and Tarek Habashy (USA)
B5:	FAST METHODS FOR CEM (I,C,P) Fast multipole and adaptive integral methods have been successful in recent years in solving large scale electromagnetic problems in the frequency and time domain. These methods have already been shown to generate accurate results in modelling large scale scattering, antenna and propagation systems involving well in excess of a million unknowns. This session will highlight new algorithmic developments relating to new fast CEM kernels, their incorporation into stable integral equation solvers, and the hybridization of the latter with differential and high frequency asymptotic solvers. Session participants are encouraged to demonstrate the applicability of new solver

	technology to real world problems that relate to radar cross section prediction, antenna analysis, and terrain propagation effects. E. Michielssen (USA) and J. Volakis (USA)
B6:	NUMERICAL METHODS FOR PDEs - ADAPTIVE FEEDBACK PROCESSES AND MULTIGRID TECHNIQUES (I,C,P) This session focuses on the advancements of the adaptive feedback process and the multigrid based matrix solution techniques in PDE methods for solving frequency domain Maxwell equations in three dimensional space. Topics included in the adaptive feedback process are: a-posteriori error estimates, h- p- and hp-adaptive mesh refinements, novel mesh refinement techniques and treatments of singularities using singular basis functions. Multigrid techniques and the Schwarz-like preconditioners have emerged as a very promising matrix solution technique even for indefinite systems. Both h-type multigrid (geometric grids) and p-type multigrid (abstract function grids) are making good progress in computational Electromagnetics. Recent advancements in PDEs have also coupled the multigrid-type methods with the adaptive mesh refinement and will be one of the main subjects of discussion here. Jin-Fa Lee (USA) and Magdalena Salazar-Palma (Spain)
B7:	ASYMPTOTIC AND HYBRID METHODS (I,C,P) This session will focus on modern developments in the construction of efficient solutions to wave radiation and scattering problems. Roughly a third of the session will be devoted to asymptotic high frequency type solutions, while the remaining part will be devoted to solutions obtained via hybrid methods, which combine asymptotic and numerical approaches, as well as different numerical approaches, respectively, to overcome the limitations/drawbacks of any one approach when used alone. Prabhakar H. Pathak (USA) and Giuliano Manara (Italy)
B8:	DESIGN, ANALYSIS AND SYNTHESIS OF ANTENNA ARRAYS (I,C,P) This session will concentrate on new or improved methods for the design, analysis and synthesis of arrays of antennas with a particular emphasis on electromagnetics aspects. Topics of especial interest include: wideband/multiband antenna elements, mutual coupling, conformal structures, multi-beaming, interference mitigation, scan blindness and wave interaction effects, efficient methods for large or sparse arrays, array antenna siting on complex platforms, array geometry synthesis, numerical and hybrid methods for arrays, and efficient electromagnetic formulations for array antennas. Stefano Maci (Italy) and Trevor S Bird (Australia)

Poster session

BP:	ELECTROMAGNETIC WAVES IN COMPLEX ENVIRONMENTS (P) This poster session focuses on effective methodologies, in the time and frequency domains, for treating the propagation, radiation, and scattering of electromagnetic waves in complex environments, addressing both electromagnetically and geometrically complicated structures. This includes, but is not limited to, approximate and asymptotic methods, multiresolution techniques, methods for linear and non-linear media, for anisotropic and general bianisotropic media, waves in EM metamaterials, methods for scattering from layered media and for guided waves in layered structures, Gaussian beam summation techniques, and methods for scattering from rough surfaces and periodic structures. Papers on theoretical developments, experimental verifications, and/or related applications are encouraged. Nader Engheta (USA) and Ehud Heyman (Israel).
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Joint sessions led by Commission B

BCF:	ANTENNAS IN MOBILE COMMUNICATION SYSTEMS (I,C,P) Mobile wireless systems continue to provide the antenna engineering with novel system-dependent requirements, such as, operation near the human body, random-like orientation, operation in a multi-path environment, extremely small size, multi-frequency (and polarization) operation, diversity (space- beam- or polarization diversity), pattern reconfiguration, smart antennas and adaptive techniques, etc. Unique quality factors in contrast to the classical ones are also introduced such as, mean effective gain, Bodyloss, correlation factor and efficiency in terms of volume. This session is dedicated to the design techniques of antennas featured for mobile wireless systems. Practical implementation of sophisticated concepts, cost effective realization of antennas and field-test as well as measurements of overall antenna efficiency results are strongly solicited. Makoto Ando (B, Japan) and Gert Frolund Pedersen (C/F, Denmark)
BD:	TIME AND FREQUENCY 3D CIRCUIT MODELING (I,C,P) Due to the increasing operation speeds more and more interconnects become true circuits. This happens on boards, in packages as well as on chips. These are essentially full 3D structures. Also the usual planar technology gets a more 3D character, for example due to the increasing effect of finite substrates or due to more complex structures built with micro-machining techniques. This session focuses on electromagnetic simulation techniques to derive equivalent circuits for 3D structures such as, for example, IE, FDTD, PEEC or FEM. Usually the circuits derived in this manner are very complex, with a large number of nodes. Hence techniques to reduce the size of these circuits, without significantly changing their behaviour in certain frequency bands, are also of importance for this session. Frank Olyslager (B, Belgium) and Andreas C. Cangellaris (D, USA)

Other joint sessions involving Commission B

[AB1](#) [AB2](#) [CBF](#) [CFAB](#) [DB](#) [JBC](#) [KB](#)

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COMMISSION C: SIGNALS AND SYSTEMS

Chair: [E. Bonek](#) (Austria)
Vice-chair: **M. Akaike** (Japan)

C-Tutorial: MODELLING OF DIRECTIONAL WIRELESS PROPAGATION CHANNELS

[A. Molisch](#) (USA)

Commission C Sessions

C1:	SOFTWARE RECONFIGURABLE RADIO SYSTEMS (I) For future wireless communications beyond 3G, software radio is the most attractive technology in a sense of multi-mode and multi-functional reconfigurable system for multiple applications (including multi-mode mobile terminals, TV broadcasting etc.) Representatives of major projects and organizations on software defined or reconfigurable radio will discuss open technical and regulatory problems presenting recent test results of R&D. R. Kohno (Japan)
C2:	ANTENNA ARRAY SIGNAL PROCESSING AND MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) SYSTEMS (I, C) The ever-increasing demand for higher capacity in wireless communication systems calls for new research directions. As the frequency, time, and spatial domains are already exploited, the spatial dimension is the one that still offers large possible gains in capacity. Smart (or adaptive) antennas, are making use of this dimension by distinguishing between signals arriving from different directions, thus allowing a better suppression of co-channel interference and mitigation of fading. Recent advances have shown that MIMO (Multi-Input Multi-Output) transmission holds the potential of improving the capacity even more. All these approaches have also been verified experimentally, and are at the brink of entering the market on a large scale. This session is devoted to the use of multiple antennas at one or both link ends. The topics include, but are not limited to, the following: - Diversity and beamforming solutions for smart antennas, - Implementation aspects of smart antenna algorithms, - Space-time coding techniques, - MIMO system identification, equalization, and signal separation, - Applications to CDMA and OFDM systems, - Broadband directional and MIMO channel modelling, and - Capacity studies for smart antennas and MIMO Andreas F. Molisch (USA) and Mats Viberg (Sweden)
C3:	BLIND SIGNAL DETECTION (I, C) This session will address the problems of blind and semi-blind channel identification and equalization. Blind and semi-blind receiver structures provide improved spectral efficiency because no or little known training data or pilot signal is required in mitigating the Intersymbol Interference caused by multipath. The blind and semi-blind methods exploit statistical and structural properties of the signals such as cyclostationarity, constant modulus or finite alphabet property. In particular, identification and equalization of Multiple-Input Multiple-Output (MIMO) channels is of interest. Semi-blind methods require some training data or pilot energy in conjunction of a blind method. They provide feasible solutions for practical systems where convergence rate and computational complexity are of interest. Visa Koivunen (Finland)
C4:	RECENT ADVANCES IN TELECOMMUNICATION SYSTEMS (I, C, P) This session will present recent trends and developments in telecommunication techniques and systems, including both tethered and wireless techniques. In addition, descriptions and comparisons of core network and access network implementations are welcome. P.H. Wittke (Canada)

CAF:	BROADBAND ACCESS SYSTEMS IN WIRELESS COMMUNICATION (I, C) This session will discuss key technologies for indoor and outdoor millimeter-wave wireless access systems such as: - Propagation aspects and coverage planning, - Strategies and new techniques for the improvement of the spectrum efficiency, - Radio channel characteristics and countermeasure technologies, - New antenna and radio technologies, and - Technical solutions to network deployment. <u>H. Ogawa</u> (Japan) and <u>Torbjörn Tanem</u> (Norway)
CBF:	WAVE PROPAGATION MODELING FOR MOBILE COMMUNICATION SYSTEMS (I) Since the start of "modern" propagation modeling in the mid 1980's, prediction models have been developed to a high state-of-art in order to support the world wide installation of cellular mobile telephone networks. Models for predicting received power by accounting for topography and land usage now exist for many different environments. However, development of Third Generation cellular and other advanced digital wireless systems that can sustain high data rates will require model that predict other channel parameters, such a delay spread and angle spread. As in the case of power prediction, these advanced channel models may be statistical in nature, heuristic or deterministic, and may be based on measurements or on theoretical analysis. The session will survey the state of the art in propagation and channel models for advance mobile communications. <u>Werner Wiesbeck</u> (Germany) and <u>Henry L Bertoni</u> (USA)
CF:	ADAPTION TO CHANGING RADIO CHANNEL (I, C) Classical models for fading channels are based upon the assumption that the channel process is random, wide sense stationary, and infinite in extent. However, consideration of physical phenomena that influence many channels over which digital communications is currently of interest, reveals that such phenomena change as, for example, either the location of one or both of the terminals changes, or the surrounding environment changes. It is therefore considered reasonable that channel models should also change by similar increments and over similar intervals, and that technology should be developed to adapt to such changes if optimum performance is to be realised. Papers are invited on topics that must be addressed in the conception and development of appropriate models and radio technology, including: measurement and sampling criteria, data segmentation, modelling of deterministic trends and nonstationary elements, and application of the models in the prediction, assessment and enhancement of digital performance by adaptation to changing conditions. The channels to be considered include terrestrial mobile channels, as well as satellite communications channels, such as those currently of interest in the Ka and EHF bands. <u>Robert Bultitude</u> (C, Canada) and <u>Yashio Karasawa</u> (F, Japan)
CFA:	CHANNEL SOUNDING IN MOBILE COMMUNICATION SYSTEMS (I, C) This session will deal with the measurement, parameter identification, and analysis of mobile radio channels. For the design of physical layer principles in 3G and 4G mobile radio systems, detailed knowledge about the channel impulse response (CIR) characteristics in various radio environments is required. Real-time, broadband vector radio channel sounders rely on pseudo-noise excitation signals and correlation processing. The directional/spatial structure of the propagating waves is resolved using antenna arrays at one or at both sides of the radio link (SIMO/MIMO). Joint superresolution identification of the dominant multipath channel transfer parameters in terms of direction of arrival (DoA), direction of departure (DoD), time delay of arrival (TDoA), Doppler shift, and complex paths weights requires multidimensional parameter estimation procedures. Basic channel characteristics such as various spread and correlation functions, channel capacity and even parametric channel models may be deduced from the measured data. The recorded CIR data are used for realistic link level simulation and even for system level evaluation. <u>Reiner S Thomä</u> (C, Germany), <u>Simon Saunders</u> (F, UK) and <u>Quirino Balzano</u> (A, USA)

CFAB:	SUBSURFACE REMOTE SENSING AND ITS APPLICATIONS (I) The joint session will present recent developments and applications for sub-surface remote sensing. The techniques considered include ground-penetrating radar, time-and frequency-domain electromagnetic sensing (airborne and ground-based), and borehole and cross-borehole (tomography) radar. Applications are in mineral exploration and mine planning, environmental monitoring, landmine detection, civil engineering, and geological and geotechnical studies. The presentations can include models and results for antennas near a half-space, wave propagation in dispersive media, sub-surface target classification via polarimetric or resonant signatures, synthetic aperture and interferometric processing (including 3D imaging), target detection and clutter rejection techniques. Jürgen Sachs (C, Germany), David Noon (F, Australia), Glenn Smith (A, USA) and Peter van den Berg (B, The Netherlands)
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Joint sessions involving Commission C

[AC1](#) [AC2](#) [BCF](#) [HGJC](#) [JBC](#) [JFC](#) [KC](#)

COMMISSION D: ELECTRONICS AND PHOTONICS

Chair: [A. Seeds](#) (UK)
Vice-chair: [P. Russer](#) (Germany)

D-Tutorial: ULTRA-FAST PHOTONIC NETWORKS BASED ON OPTICAL CODE-DIVISION MULTIPLEXING

[Hideyuki Sotobayashi](#) (Japan)

Commission D Sessions

D1:	RADIO OVER FIBER TECHNOLOGIES (C, P) In recent years optical fiber links have gained wider applications in mobile communications, local area and subscriber access networks, television programme distribution, etc. In most cases the optical link is combined with wireless connections. The radio over fiber approach makes possible the optical transmission of information channels transposed on radio frequency carriers simplifying this wave the optical/wireless interfaces. The broadening application field requires new functions to meet the new service needs. One of them is the Internet access via the optical/wireless connection. At the same time new photonic devices have been developed providing novel circuit and system approaches. The session gives a survey on the new device, circuit and system technologies for the radio over fiber approach. T. Berceli (Hungary) and H. Ogawa (Japan)
D2:	FEMTOSECOND/TERAHERTZ TECHNOLOGY (C, P) The objective of this session is to examine techniques for the generation, processing and detection of ultra-fast signals in both the time and frequency domains. Topics to be covered include but are not limited to ultra-fast electronic and photonic devices, femtosecond optical pulse generation, heterodyne techniques and applications including time-domain probing and terahertz imaging. Hiromas ITO (Japan) and Osamu WADA (Japan)
D3:	OPTICAL-MICROWAVE INTERACTIONS The interactions between microwaves and optical waves are important for fundamental

	understanding and applications in spectrum analyses of RF signals and propagation of guided waves in photonic crystal structures and detection of microwave field by optical radiation. Le Nguyen Binh (Australia)
D4:	NANOTECHNOLOGIC PROCESSES FOR ADVANCED OPTIC AND ELECTRONIC SYSTEMS (C,P) Nanotechnology processes allow the realisation of new electronic and optical devices and systems ; they also allow improved performances for more classical devices. This session is devoted to the link between the fabrication process, having a nanometric scale, and the obtained devices and systems. What does the nanotechnology bring to devices ? What new performances are obtained owing to the nanotechnologies? What are the physical limitations? Specific topics include: atomic or molecular deposition, semiconductor microcrystallites in various matrixes, nanolithography, sol-gel nanoscale processes, nanomechanooptoelectronic processes, nanomanipulation, molecular engineering, nanostructure characterization, new electronic devices (single electron devices...), nanooptics (single photon processes, single photon devices, photonic crystals, nanoscale light emitters, etc.), nanosensors, MOEM systems, and biologic molecules on solid substrate systems. Pierre-Noël Favennec (France) and Frédérique de Fornel (France)
D5:	WAVE PROPAGATION IN FAST PHOTONIC DEVICES (C, P) Electro-optic devices are essential for ultra-high speed optical modulation of lightwaves in optical communications and photonic signal processing systems. The design and implementation of travelling wave electrodes are critical in such operation and are of great interest for radio science, as are technical issues such as fabrication of thick and brick-wall like electrodes and their RF properties, matching optical and RF waves, symmetric and asymmetric co-planar structures for millimetre wave region operation. Le Nguyen Binh (Australia)
D6:	MEMS (MICROELECTROMECHANICAL SYSTEMS) IN MICROWAVES, MILLIMETERWAVES AND OPTICS (C, P) Microelectromechanical systems allow switching and other operations in fast electronic systems to be carried out with remarkably reduced size and circuit parasitics relative to conventional techniques. Ingenious applications in low loss compact optical switching have also been shown to be possible. This session will address both the technology and the applications of these devices. Peter Russer (Germany)
D7:	PHOTONIC SIGNAL PROCESSING (C, P) Processing of signals at extremely high radio frequency up to and beyond several hundred giga-Hertz is critical for ultra-high speed optical communications and defense systems. Generation, detection, filtering and regeneration of these signals in the time and optical frequency domain are possible by in-line optical guided systems. Le Nguyen Binh (Australia)

Poster session

DP:	OPEN CONTRIBUTED POSTER SESSION (P) This session is open to papers in all aspects of electronics and microelectronics materials or components not covered by the other sessions as well as to new results. The young scientists are especially encouraged to propose a contribution from their work. M. Pyée (France)
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Joint sessions led by Commission D

DB:	ELECTROMAGNETIC BAND GAP STRUCTURES AND THEIR APPLICATIONS (C, P) Electromagnetic band gap (EBG) structures are finite/infinite periodic 1D/2D/3D arrangements of electric or magnetic materials which produce a band gap in either the temporal or spatial frequency response of that structure. Examples include traditional multi-layered material stacks (1D EBG structures), frequency selective surfaces and periodic arrays of posts (2D EBG structures), and 3D structures which exhibit bandgaps in all directions (3D EBG structures). A variety of microwave, millimeter wave and optical structures have been simulated and constructed recently that demonstrate the effectiveness of these structures as filters, power splitters, radiation pattern modifiers, etc. The basic EBG concepts will be reviewed and a variety of exciting EBG structure applications such as nanocavities, subwavelength waveguides, reconfigurable planar filters, modified wave emitters and antennas will be highlighted in this session. R W. Ziolkowski (D, USA) and Yahya Rahmat-Samii (B, USA)
DJ:	PHOTONICS IN RADIO ASTRONOMY (C, P) Photonics is increasingly being used to perform a variety of roles in radio astronomy instruments. Originally considered only hypothetically as a technology for remoting the antenna signals, photonics has recently moved to the enabling technology for several radio astronomy telescopes. In this session we will hear from speakers who are actively engaged in the challenge of implementing these new or upgraded telescopes: the options they considered, the tradeoffs of the various photonic approaches and the approach they are implementing. C H Cox (D, USA) and John Payne (J, USA)
DJA:	ADVANCES IN SUPERCONDUCTOR COMPONENTS AND APPLICATIONS (C, P) Superconductor components and sensors are constantly in progress, offering new possibilities in electronics circuitry and applications. This session focuses on the advancement of the superconductor components as well as on applications. The discovery in 2000 of a new family of high Tc superconductor material based on Mg compound, maybe extremely promising for new components in a near future. In this session the following topics will be covered: - Advances in the new HTc superconductor materials for electronics applications, and measurements, - RSFQ logic circuits, - Advances in magnetic fields measurements using very sensitive SQUID, - Applications in metrology of the superconductor components, - Applications of superconductor microwave circuitry, and - The advances in superconductor receivers for radio-astronomy. M. Pyée (D, France), G. Beaudin (J, France) and E. Gérard (A, France)

Other joint sessions involving Commission D

[AD](#) [BD](#)

COMMISSION E: ELECTROMAGNETIC NOISE AND INTERFERENCE

Chair: [R.L. Gardner](#)

Vice-chair: [P. Degauque](#) (France)

E-Tutorial: LIGHTNING ELECTROMAGNETIC EFFECTS: DO WE KNOW EVERYTHING ABOUT IT?

[Michel Ianoz](#) (Switzerland)

Commission E Sessions

E1:	MATHEMATICAL METHODS IN FREQUENCY ASSIGNMENTS (I) This session is intended to gather those interest in solving problems of RF spectrum congestion and mutual interference among wireless communications systems. The principal theme will be the review of new mathematical methods in spectrum management/frequency assignments. R. Struzak (Poland) and H. Blank (UK)
E2:	INTENTIONAL ELECTROMAGNETIC INTERFERENCE (I) Intentional Electromagnetic Interference is a new topic for the General Assembly. From the effects point of IEMI and EMI differ only in intent. When trying to protect electronic equipment, one must consider the possibility that the adversary can choose his transmitter to be very effective against the equipment you are trying protect. The session will consider available sources and their effects. It will also consider means of protection against this threat. M. W. Wik (Sweden) and W. R. Radasky (USA)
E3:	HIGH POWER ELECTROMAGNETICS (I) High Power Electromagnetics (HPE) covers a number of topics that combine solutions of Maxwell's Equations with various breakdown processes. Applications include lightning, electromagnetic pulse, high power microwaves, and other high power phenomena. Some of the challenges of this area include designing antennas for high power handling and establishing the theoretical foundation for HPE. HPE has been an empirical subject so that the linkages between the theory and the observable must be made. the observables include electromagnetic radiation. C. E. Baum (USA) and R. L. Gardner (USA)
E4:	LIGHTNING OBSERVATIONS FROM SPACE AND GLOBAL LIGHTNING ACTIVITY (I) Enormous development has been made during the past ten years in the techniques of lightning source mapping by means of VHF and UHF electromagnetic pulses emitted by progression of lighting discharges. This session will focus on applications of this work using spaceborne sensors. Satellites enable true global mapping and trend analysis. Z. Kawasaki (Japan)
E5:	ELECTROMAGNETIC INTERACTION WITH COMPLEX SYSTEMS (I) This session will consider methods of predicting the coupling of electromagnetic fields and currents into realistic complex systems. These systems are far too complex to use strictly numerical methods for coupling analysis. There are also too many possible interesting geometries for strictly empirical methods to give complete solutions. Methods that consider the topology of the complex system have been effective since they allow the analyst to identify the particular parts of the system that control the coupling to the system J. P. Parmentier (France) and M. Ianoz (Switzerland)
E6:	RADIATION FROM AND COUPLING TO PCBs (I) This session deals with the EMC problems of PCBs and Integrated Circuits cause by electromagnetic interferences covering a wide frequency range within few kHz to 1 or 2 GHz. The session covers the predictive tools of electromagnetic coupling to PCBs and the theoretical simulation of electromagnetic coupling between the PCBs and various surrounding cables, such as supply lines or data lines. It is

	also devoted to the improvement of immunity and noise reduction of these circuits by use of special arrangements of the traces or protective measures. Prospective studies of the optimisation of shields, conductive screens, non-linear devices, ferrite cores, filters, and semi-conductive layers are included, special consideration being given to the scientific approach. Beside these topics interest of this session will be focused on the tests of immunity and emission at integrated circuit level relevant to the project of standards or proposal of novel methods. . Bernard Demoulin (France), Yoshio Kami (Japan) and Jan Luiken ter Haseborg (Germany)
E7:	TERRESTRIAL ELECTROMAGNETIC EM PHENOMENA (I, C) This session intends to highlight the latest results on the monitoring, measurement, characteristics and effects of terrestrial electromagnetic environment of both natural and man-made origins. In the field of natural noises, we cover all frequency range from ELF to VHF. Recent new findings include the cloud-to-ionosphere discharge and its associated ELF wave phenomena, Schumann resonance monitoring of the global warming etc., and we accept the latest results on sferics problems such as lightning physics, lightning location and also on the ionospheric/magnetospheric noises due to wave-particle interactions. Man-made noise is another part of terrestrial noise environment, and various topics are welcome, including the measurements and characteristics of man-made noises, their effects on the communications, their interaction with natural noise environment, etc. M. Hayakawa (Japan) and A P Nickolaenko (Ukraine)
E8:	EM INTERACTION WITH AND SUSCEPTIBILITY OF ANALOGUE AND DIGITAL ELECTRONICS (I) This session addresses the susceptibility of analogue and digital electronics to unwanted electromagnetic signals. Areas of interest include * Physical failure mechanisms and hardening * Non-linear effects * Component upset * Information network response and hardening * Chaos I. Kohlberg (USA) and J. Nitsch (Germany)

Joint sessions led by Commission E

EA:	ELECTROMAGNETIC COMPATIBILITY AND ELECTROMAGNETIC POLLUTION (I) Test procedures and new measurement techniques have been proposed during these last years. Among others, one can mention in-depth studies on reverberation chambers and comparison to tests performed in anechoic chambers or cells. A presentation of the state of the art on these techniques together with the latest results are encouraged, but the more traditional topics as EMC tests on integrated circuits, on PCBs and on cable assemblies will also be covered. Furthermore the electromagnetic pollution control remains a critical point and the impact of new telecommunication technologies, such as power line communication, on the electromagnetic environment must be carefully studied. Papers describing the way of characterizing these disturbing fields are welcome. Pierre Degauque (E, France) and Roberto De Leo (A, Italy)
EF:	INTERFERENCE IN COMMUNICATION (I) This session deals with the characteristics of interference and noise in communications and also with their effects on communications. J. Gavan (E, Israel) and David F. Bacon (F, United Kingdom)
EGH:	LITHOSPHERE-ATMOSPHERE-IONOSPHERE COUPLING (I, C) A lot of convincing evidence has been accumulated on the presence of seismo-electromagnetic phenomena, which would be useful for future earthquake prediction. Recently, there have been observations of significant ionospheric perturbations associated with earthquakes. Consequently, this session is intended to gather recent findings on the general lithosphere-atmosphere-ionosphere coupling in order to improve our understanding of this coupling. M. Hayakawa (E, Japan), S. Pulinets (G, Russia), M. Parrot (H, France) and O.A. Molchanov (H, Russia)

Other joint sessions involving Commission E

[AE](#) [GHE](#) [HGE1](#) [HGE2](#) [KE](#)

COMMISSION F: WAVE PROPAGATION AND REMOTE SENSING

Chair: [Y. Furuham](#) (Japan)

Vice-chair: **M. Hallikainen** (Finland)

F-Tutorial: RECENT DEVELOPMENT OF DATA PROCESSING IN POLARIMETRIC AND INTERFEROMETRIC SAR

[Eric Pottier](#) (France)

Commission F Sessions

F1:	RADIOMETEOROLOGY (I) In this session we deal with the traditional issues of radio wave interactions with the atmosphere for communications and remote sensing. These cover clear-air, precipitation and gaseous effects on propagation and other radio-climatology effects on propagation including modeling, measurements and instruments. In addition to these issues, recently we extended a new knowledge about the rain structure and/or the physical image of the atmosphere through satellite based remote sensors such as TRMM./Precipitation Radar or TRMM Microwave Imager. Papers concerning these fields of studies are also solicited. (Tentative) Rod L. Olsen (Canada) and J. P. V. Poiares Baptista (The Netherlands)
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F2:	CLIMATIC PARAMETERS IN RADIOWAVE PROPAGATION AND THEIR MODELLING (I) The success of radio communication systems depends on a precise estimate of how climate dependent factors influence the availability and quality of a service. Over the past years there has been an increasing interest in developing fully-computational propagation prediction methods, obtaining the necessary climatic parameters from numerical global maps. A significant number of new parameters have recently been provided describing the refractivity gradients and ducts on a global scale. These have also been incorporated in the ITU-R database of global parameters for use in established prediction methods and for the development of new methods. The sources were a 20-year radiosonde database and a 2-year numerical database using global atmospheric models and measured data assimilation. On a local scale, new observations, for instance using refractivity profiles mounted in towers or lidars, are providing new information for in-depth understanding to better characterise climatic parameters. Also numerical atmospheric modelling along with deterministic propagation calculations provide good results of the impact of local climate. With respect to attenuation due to rain, the accuracy of the prediction models is dependent on the availability of rainfall rate data. Recently, a numerical database of rainfall-rate cumulative distributions has been established using several years of rainfall forecasts and of monthly rain heights. Re-analyses of historical data and the collection of new measurements, such as the Tropical Rain Measurements Mission, aim at improving precipitation parameter modeling further. With higher radio frequencies, water vapour and cloud attenuation and scintillation have also to be considered. Numerical global maps of these parameters have become available in recent years, and have been used to improve attenuation prediction methods. Terje Tjelta (Norway) and Calro Riva (Italy)
F3:	MILLIMETRIC, SUB-MILLIMETRIC AND OPTICAL WAVE PROPAGATION PREDICTION (I) With the expanding demand for more communications channels with ever wider bandwidths and higher data rates, the need to exploit higher and higher frequencies is becoming more urgent, extending well into the millimetric regions of the electromagnetic spectrum, and above. Applications which use millimetric wavelengths are already being planned, for example point-to-multipoint distribution of multimedia entertainment services, while cable systems are actively considering optical wavebands for the "last kilometre" distribution to customer premises. Millimetric waves are also considered for applications in vehicular communications and radars for Intelligent Transportation Systems. The infrared and optical wavebands could present a particularly attractive solution to operators, since these regions of the electromagnetic spectrum are currently unallocated internationally and could potentially be freely exploited. At these very short wavelengths, a variety of meteorological phenomena play important roles in determining the range, availability and reliability of services, including absorption by atmospheric molecules, scattering from hydrometeors including rain, snow, hail and fog, and the effects of atmospheric refractivity, including ducting and turbulence phenomena. For broadband mobile or indoor communications systems and sensing systems, multipath propagation and shadowing due to various objects also have significant effects on system performance. The system designer therefore requires methods to evaluate the effects of these phenomena to facilitate provision of cost-effective and dependable communications applications, together with the most efficient use of the available spectrum. This session explores some of the methods currently available for predicting the effects of various phenomena on the propagation of signals in the millimetric, infrared and optical wavebands. C. J. Gibbins (UK) and Takeshi Manabe (Japan)
F4:	POINT TO MULTIPOINT PROPAGATION MODELLING (I) Topics to be addressed are Broadband access, Coverage to subscribers in high density city centers, Predicting coverage for various frequencies, i.e., modelling coverage below 3GHz, modelling coverage utilizing 2.6 – 6 GHz band (MMDS), modelling coverage at 10.5 GHz and modelling coverage at 23, 28 and 38 GHz (LMDS), Current developments at 3.5, 26, 28 and 40 GHz, and Comparing point-to-multipoints coverage in different climatic regions in consideration with cell sizes. Joel Lemorton (France) and Marlene S. Pontes (Brazil)
F5:	MICROWAVE PASSIVE REMOTE SENSING (I)

	The session will have a balance of surface-based, airborne and satellite platforms for remote sensing of the atmosphere, ocean, and surface. In addition, one or two papers on advanced instrumentation will be presented. At least one paper, each given by a recognized international authority in the field, will be presented on the following topics: Ground-based Remote sensing of the Atmosphere and Ocean, Satellite- and aircraft based Remote Sensing of the Atmosphere and Ocean, Satellite- and aircraft based Remote Sensing of the Land Surface and vegetation, Radiometric Polarimetry, including imaging, Radiometric Calibration, Advanced instrument techniques, Special Campaigns and Field Experiments, and Radiometric modeling of scattering, emission and radiative transfer Ed Westwater (USA) and Adriano Camps (Spain)
F6:	MICROWAVE ACTIVE REMOTE SENSING (I) Significant progresses have been done in the past years to deeply understand geophysical processes of the Earths' surface by using information from active microwave remote sensors. Further important advances are expected after the recent launch of the ESA ENVISAT satellite carrying onboard an ambitious and innovative payload including the Advanced Synthetic Aperture Radar (ASAR). This session will address key developments in both experimental and theoretical research for retrieving geophysical quantities of land and ocean from remote sensing data. The accent will be on data interpretation by means of electromagnetic models and on inversion techniques. Paolo Pampaloni (Italy) and Jouni Pulliainen (Finland)
F7:	POLARIMETRIC AND INTERFEROMETRIC TECHNIQUES IN REMOTE SENSING (I) This session aims to review advances in the use of multi-parameter radar systems for the remote sensing of land surfaces, vegetation cover and other volume scatterers such as rain and hail. There are three primary ways in which multi-parameter radar measurements can be made: multi-frequency, single or multi-baseline interferometry and multi-polarization. While several airborne systems can now provide diversity over all three of these, it is the combination of polarimetry with interferometry at a single wavelength that forms the central focus of this session. The main reason for this is the imminent launch of a series of advanced satellite radar systems such as PALSAR, an L-band SAR sensor on board the NASDA ALOS satellite and Radarsat II, a C-band polarimetric sensor. These are typical of a new generation of radars with the potential for providing data from various combinations of polarimetry and interferometry. Hence it is timely to review our understanding of the way in which polarized microwaves interact with random media and the methods available for both classification and quantitative data inversion of radar data. The session will cover advances in classification of polarimetric data and address the important topic of comparative performance of partial versus fully polarimetric systems. We then present an up-date on advanced air and space-borne multi-parameter radar system projects and finally consider applications in forest height mapping using polarimetric interferometry and radar meteorology using polarimetric Doppler processing. Shane R. Cloude (UK) and Alberto Moreira (Germany)
F8:	REMOTE SENSING OF INLAND AND COASTAL WATERS (I) The remote sensing of inland and coastal waters can be broken down into 4 segments: 1a) the underwater light field: measurements, modelling, simulations and radiative transfer, and 1b) the propagation of this reflectance signal through the air/water interface and the atmosphere to the sensor-automatically implying we will have to remove these effects to map water quality, 2) the inversion of the remotely sensed signals (using tools and methodologies logically flowing forth out of 1 3) the image processing (geocorrection, radiometric correction, atmospheric correction, application of algorithms) and 4) Perhaps most important: WHY are we doing it? What is the purpose-who are the customers? How do their wishes influence our work? Thus an interesting session would be composed of experts that would present something on:

	1 where are we now with underwater light measurements, modelling, simulations optically deep waters 2 relationship of spectral reflectance to optical water quality parameters 3 atmospheric modelling, simulation, correction 4 inversion: analytical 1, 2 and 3 band inversions 5 matrix inversion of full spectra 6 neural network inversions 7 state-of-the-art case study in inland waters 8 state-of-the-art case study in coastal waters 9 Future directions Arnold Dekker (Australia) <> and Tommy Lindell (Sweden)
F9:	REMOTE SENSING OF GREEN HOUSE GASES (I) Now, it is well known that the increase of greenhouse gases due to human activities will raise global mean surface temperature up to 5.8C in 2100. However, the emissions and absorptions of these green house gases, especially their spatial distributions are not well known. As the 2001 IPCC report stated, it is vital to observe these sources and sinks of greenhouse gases in a systematic and continuous way. It is vital to use satellite remote sensing to achieve this goal. In this session satellite observation of greenhouse gases, i.e., CO₂, CH₄, N₂O, O₃, CFC, HFC, PFC, SF₆, H₂O, etc. will be discussed. Papers concerning programs and instruments to observe greenhouse gases as well as retrieval method are solicited. Haruhisa Simoda (Japan) and Thuy LeToan (France)

Poster Session

FP:	WAVE PROPAGATION AND REMOTE SENSING (C, P) In recent years, Commission F has had sessions of invited papers at the General Assemblies which have given overviews of recent research developments and the current status in a number of primary topics within the scope of Wave Propagation and Remote Sensing. Papers on personal original research have (since 1977) been presented at the Commission F Triennium Open Symposium held in the year preceding General Assemblies, the next of which is to be held in Garmisch–Patenkirchen, Germany, on February 12-15, 2002. However, a few contributed papers have been offered to Commission F for URSI General Assemblies and most of these have been included in a well-attended poster session. In 2002, Commission F will have a poster session formally identified for such contributions. M. T. Hallikainen (Finland)
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Joint sessions led by Commission F

FG:	WAVE PROPAGATION FOR SATELLITE NAVIGATION AND MOBILE SERVICES (I) The session will consist of two parts, one dealing with satellite navigation, the other one with mobile communications. There will be one or two papers addressing common aspects. The Satellite Navigation part will be dealing with the special propagation modelling requirements of RNSS systems, including the effects of the ionosphere. A key parameter for navigation systems is the path delay and its accurate prediction is important for single frequency navigation receivers. For Satellite-based augmentation systems (such as WAAS and EGNOS), there is a need to know the vertical profile and the temporal and spatial gradients of the ionospheric Total Electron Content. Ionospheric scintillations are also of Importance for the design of RNSS systems at L-band frequencies. The common aspect of satellite navigation and satellite mobile services lies in shadowing and blockage of the signal. A receiver for satellite navigation has to be able to "see" at least four spacecraft and this is especially difficult in inner-urban areas. For mobile services the concept of orbital diversity (at least one of the satellites in a constellation has to be visible) is proposed to increase availability. The challenge, which will be discussed in this Session, is to find fast, yet reliable procedures to predict the visibility of multiple satellites from a user terminal, which follows a certain route within a built-up area. For broadband multimedia services provided to mobile users, the frequency bands considered are much higher (Ka-band) and therefore it is important to consider the tropospheric propagation effects. The second order statistics (fade rate, fade duration) will be driven by the speed of the mobile terminal rather than, as is in the fixed terminal case, by the motion of the weather patterns. Dispersive propagation effects are also relevant for broadband mobile connections. Bertram Arbesser-Rastburg (F, The Netherlands), David V. Rogers (F, Canada), Reinhart Leitinger (G, Austria) and Manuel Cervera (G, Australia)
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Other joint sessions involving Commission F

[BCF](#) [CAF](#) [CBF](#) [CF](#) [CFA](#) [CFAB](#) [EF](#) [GF](#) [JFC](#)

COMMISSION G: IONOSPHERIC RADIO AND PROPAGATION

Chair: [P. J. Wilkinson](#)

Vice-chair: [C. Hanuise](#) (France)

G-Tutorial: IONOSPHERIC IRREGULARITIES

[Jean-Pierre St.-Maurice](#) (Canada)

Commission G Sessions

G1 (i and ii):	IONOSPHERIC EFFECTS ON HF PROPAGATION (I, C) This session will address the prediction, measurement and modelling of ionospheric propagation with an emphasis on satisfying the design and operation of modern VLF/LF/MF/HF systems. There are many examples. VLF signal generation through ionospheric modification is a possibility. Modern point-to-point and broadcast LF/MF/HF radio systems are likely to use digital modulation to provide better fidelity and reliability and may occupy bandwidths greater than those used historically. A specific problem of interest to the ITU is a requirement for a model of delay spread, caused by the ionosphere, on HF wideband (>10 kHz) transmissions. HF radar systems and DF systems are being designed to satisfy a demanding surveillance capability over increasing ranges and against smaller targets. In all of these systems ionospheric propagation dictates both the system capability and its limitations. Topics of interest include: path and channel sounding, modelling and measurement - including antenna effects; numerical and analytical ray tracing; enhancements to ionospheric and system prediction codes; multi-path and Doppler; diversity gain; noise and interference etc. Paul S. Cannon (UK) and Louis Bertel (France)
G2:	OPERATIONAL IONOSPHERIC MODELS INCLUDING DATA INGESTION (I, C) In a variety of situations, ionospheric models are used to assist in system planning and, more recently, real time operation. This session will draw on the more novel uses of ionospheric models, among other aspects of ionospheric modelling. Contributions from model developers as well as model users are welcome. The session will consist of invited and contributed papers D. Bilitza (USA) and K. Igarashi (Japan)
G3:	OPEN SESSION AND LATEST RESULTS (I, C) Recent results in ionospheric research obtained through experiments, simulation and theory will be considered for this session. Any new techniques from groundbased ionosondes and radars to space-borne instrumentation that promise new discoveries and results are welcome. The session will consist of oral and poster presentations, and the authors should indicate their preference. B.W. Reinisch (USA) and Anna Belehaki (Greece)

Poster sessions:

GP1:	GENERAL POSTER SESSION (P) Elizabeth Blanc (France)
GP2:	SHORT-TERM VARIABILITY IN THE IONOSPHERE (P) This session seeks to develop a coherent view of minute-to-minute to day-to-day variability in the ionosphere. We welcome papers dealing with the sources: fluctuations in the forcing functions at high latitude, ups and downs in EUV, tidal variability due to planetary and gravity waves propagating from below, and low-latitude electrodynamics, as well as the ionospheric response they produce. Both experimental results and modelling techniques will be emphasised in order to achieve a better understanding of short-term changes in the space environment. Understanding variability is not only an interesting science problem, but is also essential for space weather applications. Mihail Codrescu (USA)

Joint sessions led by Commission G

GF:	TRANSIONOSPHERIC SIGNAL DEGRADATION (I, C)
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	Modern applications of transionospheric propagation of radio waves include advanced navigation and location finding systems, the use of ground and space reception of GNSS signals for ionospheric and atmospheric research, satellite to satellite communication for various purposes. Received signal degradation has several causes like multipath propagation and scintillation. Some applications have to take into account higher order propagation effects too. In dual frequency systems compensation of first order ionospheric influences leads to enhancement of the higher order effects. Reinhard Leitinger (G, Austria), Manuel Cervera (G, Australia), Bertram Arbesser-Rastburg (F, The Netherlands) and David V. Rogers (F, Canada)
GH1:	IONOSPHERIC MODIFICATION BY HIGH POWER RADIO WAVES: COUPLING OF PLASMA PROCESSES (I, C) This session will cover the relationship between the wide range of phenomenon produced by the interaction of high power radio waves with the ionosphere. The purpose of this session is to provide a better understanding of the complex, non-linear processes excited during HF pumping of the ionosphere. Contributed papers are solicited for (1) artificial generation of plasma irregularities with scale-lengths ranging from kilometers to centimeters, (2) enhanced optical emissions from HF modified ionosphere, (3) in- situ and ground-based diagnostics for the pumped volume, and (3) theoretical and computer modelling of HF wave interactions with the ionosphere. Sa. Basu (G, USA) and T.B. Leyser (H, Sweden)
GH2:	TOPSIDE IONOSPHERE AND PLASMASPHERE (I, C) Above the F-layer peak, the composition and characteristics of the ionosphere plasma are coupled closely to the overlying populations of magnetospheric plasma on auroral and plasmaspheric field lines. Models exist for the equilibrium distributions of plasma species along field lines in the topside ionosphere, but magnetospheric disturbances and dynamics seriously perturb these equilibrium conditions. Many of these processes and their ionospheric consequences are poorly described and modeled and this session will feature papers exploring this dynamic and important region of Earth's ionosphere. New ground and space-based techniques are available for studying the plasmasphere. Papers dealing with theory, observations, and modeling of the topside ionosphere at any latitude are appropriate for this session. J. Foster (G, USA) and I. Kimura (H, Japan)
GHE (i and ii):	SPACE WEATHER EFFECTS ON SYSTEMS (I, C) This session will focus on space weather effects (especially electromagnetic) on systems, including failures and fault mitigation. The topic contains spacecraft-plasma interaction, radiation effects on space systems, and geomagnetically induced currents (GIC) and voltages in ground-based technological systems. Space weather is understood as time varying conditions at the Sun, in the solar wind (including interplanetary scintillation measurements and solar radio signatures of coronal mass ejections (CME), in the magnetosphere, in the ionosphere (various Total Electron Content (TEC) effects on instruments and Travelling Ionospheric Disturbance (TID) issues), in the thermosphere (primarily driven by solar or interplanetary phenomena), and at the Earth's surface. G Phil Wilkinson (G, Australia), H Alain Hilgers (H, The Netherlands) and E Risto Pirjola (E, Finland)
GJ (i and ii):	NEW APPROACHES TO RADIO SENSING OF THE TERRESTRIAL PLASMA ENVIRONMENT This session will deal with new techniques and methods using radio waves and supplementary observations with optical and remote sensing methods, to study the ionosphere, mesosphere and thermosphere and the relation to the lower atmosphere as well as its coupling with the magnetosphere and the solar wind. The topics include for instance: radar studies of meteors, D(PMSE)-, E- and F-region irregularities HF over-the-horizon propagation for remote sensing of the ionosphere, new ground-based and space-borne HF-radar and radio projects to sound the ionosphere (including topside), magnetospheric sounding and imaging, news in ELF and ULF propagation, radar and radio wave propagation applications for study of space weather effects, radar interferometry and imaging in space, the capability of HF to UHF radio astronomy for high resolution measurements of the ionosphere, magnetosphere and solar wind plasma, diagnostics of

the ionosphere and atmosphere by artificial periodic irregularities, radar and radio diagnostics during ionosphere modification by high power radio waves and in-situ releases.

[C. Haniuise](#) (G, France), [J. Roettger](#) (G, Germany) and [C. Lonsdale](#) (J, USA)

Other joint sessions involving Commission G

[EGH](#) [FG](#) [HG1](#) [HG2](#) [HGE1](#) [HGE2](#) [HGJC](#)

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COMMISSION H: WAVES IN PLASMA

Chair: [H.G. James](#) (Canada)

Vice-chair: [U.S. Inan](#) (USA)

H-Tutorial: "COMPLEXITY" IN SPACE PLASMAS: RESONANCES, COHERENT STRUCTURES AND FORCED AND/OR SELF-ORGANIZED CRITICALITY

[Tom Chang](#) (USA)

Commission H Sessions

H1:	KINETIC EFFECTS IN BOUNDARY LAYERS (I, C, P) This session is dedicated to the study of microscopic processes inherent to the physics of boundary layers and occurring over micro- and meso-scales. Such processes play a fundamental role in wave-particle interactions and non-linear effects of the boundary layer. The session will bring updated and complementary results with respect to previous works mainly based on fluid approaches and restricted to macro-scales. Applications are of interest in magnetospheric, ionospheric and space-plasma physics, and are supported by recent space missions such as Geotail, Wind, Polar and Cluster-2. Areas of concern are: magnetopause, collisionless shocks, plasma sheet current, potential drop in the ionosphere, basic particle acceleration processes and dynamics of interface in space active experiments. In order to make a closer relationship between different approaches, the session will welcome results obtained from laboratory and space experimental data, theory and numerical simulations. B. Lembege (France), M. Hoshino (Japan) and W. Daughton (USA)
H2:	WAVES AND COHERENT STRUCTURES IN SPACE PLASMAS (I, C, P) In recent spacecraft observations, highly localised coherent structures such as solitary waves and weak double layers have been found in various boundary regions of the magnetosphere. These coherent structures, which are also observed as broadband waves in frequency spectra, are often associated with high energy particles, field aligned currents and strong inhomogeneities. Wave-particle interactions such as wave emission, particle acceleration and heating have been studied in more realistic models with open boundaries and spatial inhomogeneities. In some of these simulation studies, formation of solitary or modulated waves occurs through nonlinear wave-wave interaction involving resonant particles. Observations, theoretical and computer simulation studies on waves and coherent structures in space plasmas and the ionosphere are solicited. Y. Omura (Japan) and M. Ashour-Abdalla (U.S.A.)
H3:	ANTENNAS AND (RF) PROBES IN PLASMAS (I, C, P) This session will cover recent observational results, theories and methodologies that are concerned with the use of antennas and probes in plasmas. Antennas and probes (operated in the passive or in

	the active regime) are widely used for in situ measurements of electric field and plasma parameters under space and laboratory conditions. A number of complex physical phenomena are involved, making data interpretation very difficult: collection or emission of charged particles by the antenna surface; sheath formation; several types of nonlinearity, arising at low levels of electric field strength; density and temperature gradients around a probe; nonequilibrium velocity distribution of the ambient plasma; plasma resonances, spacecraft motion etc. The session will focus on the study of the contribution of these phenomena to the main characteristics of electric antennas (impedance, effective length, induced noise voltage spectra) under ionospheric, magnetospheric, and interplanetary conditions as well as to the application of the results to the interpretation of spacecraft data. Particular emphasis will be given to nonlinear effects due to antenna operation. Methods for partially ionized and dusty plasma diagnostics will be concerned as well. E.A. Mareev (Russia), V. Fiala (Czech Republic) and I. Nagano (Japan)
H4:	PLASMASPHERIC STRUCTURE AND PHENOMENA (I, C, P) The dynamic plasmasphere, influenced by geomagnetic and substorm activity, the ring current and conditions in its principal bounding regions, is rarely in equilibrium. It is difficult for spacecraft with limited temporal and spatial resolutions to achieve other than passing snapshot views of the plasma environment. This session will deal with new techniques becoming available for probing the cold/warm plasma environment in the plasmasphere and its outer boundary, the plasmopause. Specific topics will include: ULF/ELF/VLF waves; remote sensing with radio waves and other techniques; plasmasphere refilling, erosion and other dynamics; modeling; ring current; wave-particle interaction and geomagnetic (sub)storms. All papers of relevance for the plasmasphere are welcome. B.J. Fraser (Australia), G. Ganguli (U.S.A.) and R.R. Anderson (U.S.A.)
H5:	OPEN SESSION AND LATE RESULTS (I, C, P) This session is open to all scientists with Commission-H subjects not covered in the other sessions. Recent progress in any experimental or theoretical aspect of waves in plasmas is sought. Results from investigations providing significant new insights are encouraged. H.G. James (Canada)

Joint sessions led by Commission H

HG1:	SPACECRAFT AND GROUND OBSERVATIONS OF STIMULATED AND NATURAL SPACE-PLASMA WAVES (I, C, P) The ionosphere and the magnetosphere possess a rich spectrum of electrostatic (ES) and electromagnetic (EM) modes. These modes can be triggered by geophysical conditions or they can be stimulated through heating experiments or powerful antennae onboard satellites. Understanding these modes is further complicated by the conversion from ES to EM modes in inhomogeneous regions. Papers are therefore solicited on wave observations from satellites and ground facilities that can shed some light on the generation of the various modes and their propagation characteristics. Topics of interest include: ionospheric and magnetospheric observations of natural or stimulated ES waves, their conversion to EM modes, solar and interplanetary type II and III bursts, low frequency bursts, fp and 2fp emissions, auroral radiation, whistler-mode noise, Z-mode waves and continuum radiation. K. Hashimoto (H, Japan), R.R. Anderson (H, U.S.A.) and J.-P. St-Maurice (G, Canada)
HG2:	EXPERIMENTS IN SPACE AND LABORATORY PLASMAS (I, C, P) A joint Commission H and G session will be held to stimulate interaction between laboratory, in situ, and ground-based experimenters. The advent of the space station adds the exciting possibility of performing laboratory experiments in space. It is increasingly appreciated that the ionosphere and magnetosphere are closely coupled, with the coupling mediated by a variety of processes including quasi-steady currents, multi-scale structuring/variability, Alfvén wave propagation, and auroral acceleration processes. Papers are solicited that address the role of plasma processes on magnetosphere/ionosphere coupling, ionospheric plasma structuring, ionospheric irregularities, wave

	generation mechanisms, and ion energization utilizing ground-based, in situ and laboratory experiments. W.E. Amatucci (H, U.S.A.), R Hatakeyama (H, Japan), W. J. Raitt, (H, U.S.A.) and D. Gresillon (G, France)
HGE1:	LIGHTNING EFFECTS IN THE IONOSPHERE AND RADIATION BELTS (I, C, P) This session will cover all aspects of coupling between lightning and the ionosphere/magnetosphere system. This includes direct interactions, such as those leading to transient optical emissions like sprites and jets, and indirect interactions, such as whistler-induced magnetospheric particle precipitation and its effect on the radiation belts. Papers reporting experimental and theoretical results on these and related topics, such as the local and global effects of these processes and the characteristics of lightning responsible for these phenomena, are solicited. S.A. Cummer (H, USA), C.J. Rodger (G, New Zealand) and Y. Hobara (E, Japan)
HGE2:	DYNAMICS OF DUSTY PLASMAS IN SPACE AND LABORATORY (I, C, P) The introduction of micron-size particulates into a plasma leads to new and unusual behavior. In naturally occurring plasmas, these particulates are often grains of dust or clusters of ice crystals such as those found in the D region of the ionosphere. These particles become charged, so that in addition to the usual electron and ion species, there is also a species of very heavy charged particles with a much smaller but time dependent charge to mass ratio. This opens the possibility for modified or entirely new plasma equilibrium features, instabilities, and linear or nonlinear waves. This session will focus on waves and oscillations in dusty plasmas and will encompass laboratory and in-situ studies as well as theoretical and numerical investigations. G. Ganguli (H, U.S.A.), S. Avery (G, U.S.A.) and R. L. Merlino (E, USA)
HGJC:	ANALYSIS METHODS FOR PLASMA WAVES AND TURBULENCE (I, C, P) This session is dedicated to data analysis techniques in the radio-scientific study of space plasmas, on scales from interstellar down to ionospheric. Specialists working on these different scales encounter similar problems with data analysis and interpretation in terms of theoretical models. One of the objectives of this session therefore is to stimulate interactions. Papers reporting on the physical interpretation and potential applications of recently developed techniques, are solicited. Topics such as nonlinear wave interactions and nonlinear processes in general, prediction in solar-terrestrial relations, statistical analysis of turbulence etc., may be addressed. T. Dudok de Wit (H, France), A. Wernik (G, Poland), T. Bastian (J, USA) and G. Kubin (C, Austria)
H Special:	POWER TRANSMISSION FROM SOLAR POWER STATIONS, TECHNOLOGICAL, ENVIRONMENTAL AND BIOLOGICAL ASPECTS (I, C, P) There has been a resurgence of interest in solar power stations (SPS) as public concerns about traditional electric power generation have risen. Because one of the key issues of SPS is wireless power transmission from space to earth, it is time for an URSI-wide discussion of all aspects, pro and con, of microwave power from SPS. Laser power transmission is within the scope of this session. Session subjects include: energy and resources in the 21st century, electromagnetic interference and compatibility, antenna and rectennas for SPS beams, microwave devices, effects on ionized and nonionized parts of the atmosphere, biological considerations and co-existence of radio astronomy. K. Hashimoto (H, Japan), A. Alden (H, Canada)

Other joint sessions involving Commission H

[EGH](#) [GH1](#) [GH2](#) [GHE](#)

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COMMISSION J: RADIO ASTRONOMY

Chair: [J.N. Hewitt](#) (USA)
Vice-chair: [M. Inoue](#) (Japan)

J-Tutorial: RADIO ASTRONOMY ON THE MOVE TOWARD MICROARCSECOND ACCURACY FROM GEODESY TO COSMOLOGY

[Leonid Gurvits](#) (The Netherlands) and [James Campbell](#) (Germany)

Commission J sessions

J1:	OBSERVATORY REPORTS (I,C P) Representatives of radio observatories will report on their activities during the three years since the last General Assembly. Roy S. Booth (Sweden)
J2:	POST-COBE MICROWAVE BACKGROUND STUDIES (I,C,P) Studies of the Cosmic Microwave Background have blossomed since the statistical detection of the CMB Anisotropy by COBE in 1992. There are many ground-based, balloon-borne, and space-based experiments for further studies of the CMB anisotropy and polarization, as well as secondary anisotropy. MAP, the successor space mission to COBE will be launched in June of 2001, promising great results. This session will aim at presenting the latest ground-based, balloon-borne and hopefully MAP results, as well as future plans for CMB studies. Jeffrey Peterson (USA)
J3:	WIDE-FIELD IMAGING AND MOSAICING (I,C,P) This session will cover both fundamentals of and recent developments in two related topics: (1) Mosaicing, as applied to radio astronomy, refers to image reconstruction when the object or field of interest is larger than the antenna's primary beam, so that the data have been taken from many overlapping pointings. Many techniques have been developed for optimal image reconstruction, both for "single-dish" and for interferometer data. (2) Wide field imaging would apply, formally, to all forms of imaging involving large angles. In the current context of radio astronomy, and to separate it from the "mosaicing" as defined above, wide-field imaging is here defined as the technique of image reconstruction used when either or both of the calibration or array geometry changes sufficiently within any given primary beam that the desired field of view must be reconstructed from many smaller images. The difficulties are especially challenging when these two effects are combined, as they are for the two lowest frequency bands on the VLA, and will be for the proposed LOFAR and SKA. Much progress in calibration and imaging has recently been made, and the lessons learned will be of great value to future instruments. Richard A. Perley (USA)
J4:	PROBING THE UNIVERSE AT LOW FREQUENCIES (I,C,P) The recent demonstration with the 74 MHz VLA that self-calibration can accurately remove ionospheric distortions over arbitrarily long baselines offers the unique opportunity of opening a new window on one of the most poorly explored regions of the electromagnetic spectrum at the longest wavelengths. The removal of this "ionospheric barrier" to high angular resolution, low frequency radio astronomy is being successfully exploited by exciting new systems at the VLA and the GMRT, and has attracted a wide variety of innovative observing proposals with initial encouraging results in many areas of astrophysics. This work has also inspired plans for a much larger, completely electronic Low Frequency Array (LOFAR) which could explore the low frequency spectrum at levels of sensitivity and angular resolution which exceed present capabilities by more than two orders of magnitude. This session will explore some of the new and interesting science being done in the area of low frequency astronomy in the world today, as well as some of the technical challenges and solutions being driven

	in the quest to realize LOFAR within this decade. Namir E. Kassim (USA)
J5:	RADIO AND RADAR STUDIES OF THE SOLAR SYSTEM (I,C,P) Radio and radar studies of solar system bodies, an important component of planetary astronomy for over 40 years now, continue to play a significant role in determining the properties of the surfaces and atmospheres of bodies in the solar system. Future telescopes will offer even more sensitive observations at higher resolutions, allowing for further advances in our knowledge of solar system bodies. Future millimeter wave facilities (SMA, CARMA, ALMA) are especially exciting in this respect. This session will cover recent, and anticipated future, advances in the field of planetary radio and radar astronomy. The scope of the session does not include studies of the Sun, although they are recognized as an important component of radio wavelength studies of solar system bodies. Bryan Butler (USA)
J6:	RECENT SCIENTIFIC DEVELOPMENTS (I,C,P) The various types of instruments available to radio astronomers have been producing useful results, developing new scientific areas. In this session new scientific achievements will be presented, as well as future plans. Part of the program will be left open for contributions to be made at the time of the conference. Makoto Inoue (Japan)
J7:	ANTENNA METROLOGY AND ACTIVE CONTROL (I, P) The continuing trend towards larger radio telescopes, operating at ever shorter (submillimeter) wavelengths, puts very high requirements on the accuracy and stability of both the reflector surface contour and the telescope's pointing and tracking performance, which can only be achieved with the aid of advanced metrology systems and active control, based on real-time metrology. In this session we plan to survey recent developments in these areas. In particular the solutions under design and test for the latest telescopes, like GBT, LMT, SOFIA and ALMA, will be presented to illustrate the current state of development. Jacob Baars (Germany)
J8:	RADIO ASTRONOMY WITH HIGH DATA RATES (I,C,P) Modern radio-astronomy telescopes can produce data at very high rates. New techniques are being explored for transport and data handling. Moreover, for a number of scientific applications, it is necessary that data handling in the calibration and/or mapping stage is automated. Various efforts are concentrating on facilitating such pipeline processing and new calibration algorithms are considered. The topic includes the efforts for new instruments, where in some cases real-time processing is critical for calibration (eg ALMA, SKA and LOFAR). Another reason for automated processing is the requirement that the final product should be made available to non-expert astronomers by electronic means (virtual observatories). Huib van Langevelde (The Netherlands)

Joint sessions led by Commission J

JBC:	WIDEBAND ARRAY TECHNOLOGY AND SYSTEMS (I) This session will focus on new developments in Wideband Array Technologies and Systems. This is an area of very active instrumental development across the globe. For example, the ALMA, LOFAR and Square Kilometer Array radio astronomy projects all require progress in this area. Topics will include research in active systems for the purpose of communication, in radar for atmospheric and space weather research, and in passive systems for radio astronomy, astrophysics, and ionospheric monitoring. By their nature these programs encounter a variety of challenges in scope, system level approaches, and technologies. The session aims to develop an understanding of the similarities and differences between the different programs, and the challenges that lie ahead. Arnold van Ardenne (J, The Netherlands), Graeme L. James (B, Australia) and Helmut Boelcskei (C, USA)
JFC:	INTERFERENCE MITIGATION IN RADIO SCIENCE (I, C, P) Interference mitigation is emerging as one response to the twin pressures on passive users of the radio spectrum: their need to observe over a wider range of frequencies versus the active users' need for more spectrum. Techniques are now available which can reduce the harmful effects of interference. This session is devoted to new results - from theory and experiments. Michael Kesteven (J, Australia), Wolfgang-Martin Boerner (F, USA) and Alle-Jan van der Veen (C, The Netherlands)

Other joint sessions involving Commission J

[DJ](#) [DJA](#) [GJ](#) [HGJC](#)

COMMISSION K: ELECTROMAGNETICS IN BIOLOGY AND MEDICINE

Chair: [S. Ueno](#)

Vice-chair: [B. Veyret](#) (France)

K-Tutorial: HIGH FIELD HUMAN MRI: APPLICATIONS AND SAFETY ASPECTS

[Alayar Kangarlu](#) (USA)

Commission K Sessions

K1:	MECHANISMS & MODELLING OF ELECTROMAGNETIC INTERACTION WITH BIOLOGICAL SYSTEMS (I, C, P) Description and evaluation of analytical models are proposed to explain the biological effects of electric, magnetic and electromagnetic fields of low intensity from ELF to microwaves. For ELF, emphasis will be on electric fields in tissue or culture media of less than 1 mV/m and magnetic flux densities less than 100 micro T. An attempt will be made to identify new information on biological structures and processes at the microscopic level and on critical experiments that are needed to support or reject theories. Contributions will identify processes in biological systems that could help in linking low level molecular modifications to cellular alterations. F. Barnes (USA) and G. d'Inzeo (Italy)
K2:	BIOLOGICAL EFFECTS OF ELECTROMAGNETIC FIELDS (I, C, P) The biological system responds to many stimuli as part of the process of living and such responses

	are examples of biological effects. In vitro, in vivo, and epidemiological studies designed to investigate biological responses and health implications of DC, ELF and RF electromagnetic fields are solicited for presentation. Particular emphasis will be placed on the quantification of a specified electromagnetic environment that produces characteristic biological effects and the evaluation of DC, ELF and RF fields as potential hazards to human beings. L. Anderson (USA) and T. Shigemitsu (Japan)
K3:	HAZARD ASSESSMENT FOR WIRELESS COMMUNICATION (I, C, P) Wireless personal communication is a rapidly expanding sector, particularly in the fields of cellular mobile phones, and wireless local area networks (WLANs). Cellular phones use low-speed data transmission over wide geographical areas, while WLANs are adopted in services requiring high-speed data transmission over confined or small areas (e.g. inside or between buildings). Papers are solicited in the general area of potential health effects of the exposure conditions related to the electromagnetic fields emitted from wireless communication systems. Contributions covering induced fields in biological tissues, low level and thermal effects, <i>in vitro</i> and <i>in vivo</i> studies, as well as studies on the influence of the signal modulation (both in analog and digital systems) on the health hazard are encouraged. B. Veyret (France) and M. Taki (Japan)
K4:	BIOMEDICAL APPLICATIONS OF ELECTROMAGNETIC FIELDS AND WAVES (I, C, P) Recent progress in bioelectromagnetics and electromagnetic technology has opened a new horizon in medicine and biology. This session focuses on the contributions of both diagnostic and therapeutic applications of electromagnetic fields and waves. The session includes new technologies in magnetic resonance imaging (MRI), superconducting quantum interference device (SQUID) systems, magnetoencephalography (MEG), magnetocardiography (MCG), biomagnetic source imaging, impedance imaging, magnetic stimulation, electromagnetic convulsive therapy (ECT), gene expression, electromagnetic hyperthermia, soft tissue healing, nerve regeneration, bone growth and osteoporosis treatment. New biomedical applications of electromagnetic fields and waves based on established and newly observed phenomena are also emphasized. J. Lin (USA) and T. Katila (Finland)
K5:	EPIDEMIOLOGY OF EXPOSURE TO ENVIRONMENTAL ELECTROMAGNETIC FIELDS (I, C, P) This session will concentrate on epidemiological studies aimed at the investigation and the assessment of health effects due to human RF exposure. Leading experts in this field are encouraged to discuss and relate their difficulties and results in designing, performing and analyzing short-term and long-term epidemiological studies and to determine the correct statistical estimation of exposure levels. R. de Seze (France) and N. Yamaguchi (Japan)
K6:	TOPICS IN BIO-ELECTROMAGNETICS (I) Over the past few decades, biomagnetic research has increased worldwide due to the ever-increasing growth of electromagnetic fields in our natural environment. As we grow to understand the relationship of electromagnetic interactions with biological systems, the beneficial medical and engineering applications of electromagnetic fields will vastly increase. This session will focus on topics in bioelectromagnetics, particularly on biomagnetic imaging of the human brain and the medical applications of transcranial magnetic stimulation on humans. S. Ueno (Japan) and B. Veyret (France)

Joint sessions led by Commission K

KA:	EXPOSURE ASSESSMENT FOR CELLULAR AND PERSONAL TELECOMMUNICATIONS (I, C, P) An increasing number of devices used in our daily lives depend on the transmission of microwaves and other radio frequency electromagnetic fields (3 kHz to 300 GHz). People are concerned about the safety of using these devices. In the 70's and 80's, extensive research was conducted to answer questions concerning the safety of broadcasting, radar, and microwave ovens. During the last decade, people have been more concerned with health effects using portable cellular telephones and personal communication devices, as well as exposures from base stations. In this session, invited speakers will summarize current knowledge in exposure assessment for cellular and personal telecommunications, followed by contributed platform papers and posters. N. Kuster (K, Switzerland) and Q. Balzano (A, USA)
KB:	COMPUTATION OF ELECTROMAGNETIC FIELDS IN THE HUMAN BODY (I, C, P) Computational methods are being developed to calculate internal EM fields in realistic, anatomically-based models of the human body both for far-field and near-field exposure conditions from ELF to microwave frequencies. These methods are being used for the assessment of EM safety as well as for the design of antennas for personal wireless devices and for biomedical applications. This session will consist of invited papers from leading researchers and contributed papers. Emphasis will be placed on the applications of advanced numerical techniques, hybrid methods, more in-depth presentation of cause and effects, establishment of useful engineering design data, novel antennas and comparative evaluations of various numerical techniques and measured data. O. Gandhi (K, USA) and M. Okoniewski (B, Canada)
KC:	HEALTH EFFECTS OF MOBILE TELEPHONES (I, C, P) This session will address numerical and experimental dosimetry. The main focus will be given on frequency ranges relevant for mobile communications, e.g. 900 MHz and 1800 MHz. Various tools developed for dosimetry will be discussed and analysed. Dosimetric concepts for protection from non-ionizing radiation developed by international and national organisations will be discussed, the impact of limits on the dosimetric tools will be analysed. Dosimetric evaluation of biological experiments and procedures for compliance testing with safety standards will be presented. In recent years, handheld mobile telecommunication equipment has become a commonly used product; therefore, emphasis will be placed on determining the requirements for compliance testing of such equipment. M. Taki (K, Japan) and G. Neubauer (C, Austria)
KE:	ELECTROMAGNETIC INTERFERENCE WITH MEDICAL DEVICES (I,C,P) This session will deal with the concerns of electromagnetic interference (EMI) with medical devices. With the ever-increasing use of radio frequency waves for communications, and the rapid development of sophisticated medical devices, an increased risk to patient health and safety from the potential interference among these technologies is of major concern to the public. There are many aspects of EMI with medical devices: the proliferation of radio sources in and around healthcare facilities, the rise in wireless technology and its biomedical applications, the realization of EMI as a potential risk for devices, the increased reliance on national and international standards addressing EMI devices, and the need for international cooperation. T. Nojima (K,Japan) and M. Murphy (USA)

L1:	RADIO SCIENCE IN THE LOW COUNTRIES: BELGIUM AND THE NETHERLANDS In this session research teams of Belgium and the Netherlands elucidate scientific highlights on radio science. Belgium researchers will focus on "Large Signal Network Analysis" (commission A), "Breakthroughs in Planar Antenna Modeling" (commission B) and "Novelties on Device Modeling" (commission D). Latest research on radio science in The Netherlands will be presented "Advances in Ground Penetrating Radar for Humanitarian Demining" (commission B), "Knowledge Fusion for Atmospheric Remote Sensing" (commission F), "A new Era in Technologies for Radio Astronomy" (commission J) and "Photonic control of phased array radar" (commission D) L.P. Ligthart (The Netherlands) and E. van Lil (Belgium)
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Commission A - ELECTROMAGNETIC METROLOGY

Chair: E. Bava (Italy) Vice-chair: Q. Balzano (USA)

A1 NEW DC TO RF AND SUBMM WAVE STANDARDS AND MEASUREMENTS (I,C,P)

Dieter Janik (Germany) and Jan P.M. de Vreede (The Netherlands)

Oral session Tuesday, August 20, 2002 - morning Room: 2.7/2.8

A1.O.1 JOSEPHSON ARBITRARY WAVEFORM SYNTHESIZER: A QUANTUM STANDARD FOR AC
VOLTAGE

(1865) Helko E. Van den Brom (The Netherlands) (I)

A1.O.2 NEWS IN RF IMPEDANCE MEASUREMENTS

(437) Nick Ridler (United Kingdom) (I)

A1.O.3 APPLICATIONS OF CALIBRATION COMPARISON IN ON-WAFER MEASUREMENT

(954) Uwe Arz (United States of America) et al. (2 authors) (I)

A1.O.4 STATUS OF PRECISE RF POWER MEASUREMENT

(1825) Dieter Janik (Germany) et al. (2 authors) (I)

A1.O.5 MICROELECTROMECHANICAL SYSTEMS IN PRECISE MEASUREMENTS

(1608) Heikki Seppä (Finland) (I)

A1.O.6 DEVELOPING FREQUENCY-DOMAIN MODELS FOR NONLINEAR CIRCUITS BASED ON LARGE
SIGNAL MEASUREMENTS

(31) Jeffrey Jargon (United States of America) et al. (5 authors)

A1.O.7 RF TESTING AND MODELING OF WIRELESS COMMUNICATION DEVICES AND ICS

(1977) Vijay Nair (United States of America) et al. (2 authors)

Poster session Tuesday, August 20, 2002 - P1 Room: Expo Foyer

A1.P.1 IMPROVING THE FREQUENCY AND PHASE STABILITY OF A COMMERCIAL MILLIMETER WAVE
VECTOR NETWORK ANALYZER

(119) Pekka Eskelinen (Finland) et al. (2 authors)

A1.P.2 AC STANDARD RESISTANCE CALIBRATION SYSTEM

(477) Jidong Li (P. R. China)

A1.P.3 A CALIBRATION SYSTEM FOR THE MILLIMETER RADIOMETERS

(573) Hong Zhai (P. R. China) et al. (2 authors)

A1.P.4 DEVELOPMENT OF PROGRAMMABLE INDUCTIVE VOLTAGE DIVIDER

(744) Xiaoding Huang (P. R. China)

A1.P.5 INVESTIGATIONS OF EXTRA LOW ACCELERATIONS FOR SPACE AND FUNDAMENTAL TASKS

(1320) Petro Dem'yanenko (Ukraine) et al. (4 authors)

A1.P.6 NEW 3.5 MM COAXIAL MICROCALORIMETER: SYSTEM AND CORRECTION DESCRIPTION

(1365) Luciano Brunetti (Italy) et al. (2 authors)

A2

MATERIAL MEASUREMENTS (I,C)

James Baker-Jarvis (USA) and Roland Heidinger (Germany)

Oral session

Thursday, August 22, 2002 - morning

Room: 2.7/2.8

- A2.O.1
(136) DIELECTRIC MEASUREMENTS ON LOW-LOSS MATERIALS
Jerzy Krupka (Poland) (I)
- A2.O.2
(1140) HIGH LOSS DIELECTRIC MEASUREMENTS IN SUPPORT OF TELECOMMUNICATIONS
METROLOGY
Robert Clarke (United Kingdom) et al. (2 authors) (I)
- A2.O.3
(1141) NOVEL DIELECTRIC STRUCTURES FOR MICROWAVE AND MILLIMETER WAVE APPLICATIONS
Norbert Klein (Germany) et al. (4 authors) (I)
- A2.O.4
(949) NONDESTRUCTIVE PERMITTIVITY AND LOSS TANGENT MEASUREMENTS USING A
SPLIT-CYLINDER RESONATOR
Michael Janezic (United States of America) et al. (3 authors) (I)
- A2.O.5
(869) ELECTRICAL PROPERTIES OF PHANTOM MATERIALS AND METALS FOR METAL-DETECTOR
RESEARCH
James Baker-Jarvis (United States of America) et al. (3 authors) (I)
- A2.O.6
(2180) OPEN RESONATOR MEASUREMENTS ON FERROELECTRIC AND SUPERCONDUCTING THIN FILMS
Roland Heidinger (Germany) et al. (2 authors) (I)
- A2.O.7
(1258) MEASUREMENT OF THE EFFECTIVE PERMITTIVITY IN TRANSMISSION LINES BY MEANS OF
FREQUENCY DOMAIN REFLECTOMETRY
Jose Miguel Miranda (Spain) et al. (3 authors)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- A2.P.1
(96) A NEW METHOD FOR MEASURING CONTACT RESISTANCE
LIU Min (P. R. China)

A3 TIME AND FREQUENCY STANDARDS (I,C,P)

Andreas Bauch (Germany) and Steve Jefferts (USA)

Oral session

Monday, August 19, 2002 - afternoon

Room: 2.7/2.8

- A3.O.1
(796) EVALUATING THE ACCURACY OF TAI WITH PRIMARY FREQUENCY STANDARDS
G rard Petit (France) (I)
- A3.O.2
(1692) DEVELOPMENT OF FREQUENCY STANDARDS AT OBSERVATORY OF NEUCHATEL, SWITZERLAND
Patrick Berthoud (Switzerland) et al. (4 authors) (I)
- A3.O.3
(1921) ATOMIC FOUNTAINS IN THE UNITED STATES
Christopher Ekstrom (United States of America) (I)
- A3.O.4
(2115) PRELIMINARY EVALUATION OF A MINIATURE LASER-COOLED CESIUM FOUNTAIN FREQUENCY
STANDARD
Thomas Heavner (United States of America) et al. (3 authors)
- A3.O.5
(44) IMPROVING THE FREQUENCY STABILITY OF MICROWAVE OSCILLATORS BY UTILIZING THE
TEMPERATURE COMPENSATED DIFFERENCE FREQUENCY OF A DUAL-MODE SAPPHIRE LOADED
CAVITY RESONATOR
Clayton Locke (Australia) et al. (3 authors)
- A3.O.6
(2097) OPTICAL CLOCKS AND OPTICAL FREQUENCY METROLOGY
Leo Hollberg (United States of America) et al. (4 authors) (I)
- A3.O.7
(1732) CALCIUM OPTICAL FREQUENCY STANDARD RESEARCH AT PTB
Uwe Sterr (Germany) et al. (6 authors) (I)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- A3.P.1
(2220) A SAPPHIRE COMPACT HYDROGEN FREQUENCY STANDARD
Jihong Zhang (P.R. China)

A4 OPTICAL FREQUENCY SYNTHESIS AND LASER STABILIZATION (I,C,P)

Ikegami Takeshi (Japan) and Fabrizio Bertinetto (Italy)

Oral session

Tuesday, August 20, 2002 - afternoon

Room: 2.7/2.8

A4.O.1 COHERENT CONTROL OF LIGHT AND ITS BROAD APPLICATIONS

(1213) Jun Ye (United States of America) et al. (2 authors) (I)

**A4.O.2 HARNESSING LIGHT AND ATOMS IN A NEW WAY: ATOMIC CLOCKS AND REFERENCE GRIDS
ACROSS THE OPTICAL SPECTRUM**

(2239) Alan A. Madej (Canada) et al. (6 authors)

**A4.O.3 DEVELOPMENT OF HIGH POWER AND HIGHLY-STABILIZED LIGHT SOURCE FOR
GRAVITATIONAL WAVE DETECTOR**

(776) Mitsuru Musha (Japan) et al. (3 authors) (I)

A4.O.4 TESTS OF RELATIVITY USING ULTRASTABLE LASERS

(1306) Stephan Schiller (Germany) et al. (6 authors) (I)

A4.O.5 ATOM OPTICS WITH BOSE-EINSTEIN CONDENSATES

(1700) Klaus Sengstock (Germany) (I)

**A4.O.6 CONTINUOUS-WAVE OPTICAL PARAMETRIC OSCILLATORS AS LIGHT SOURCES FOR AN
OPTICAL FREQUENCY SYNTHESIZER**

(2242) Hajime Inaba (Japan) et al. (3 authors) (I)

A5

MEASUREMENTS ON TISSUES (I,C,P)

Quirino Balzano (USA) and Christopher C. Davis (USA)

Oral session

Thursday, August 22, 2002 - afternoon

Room: 2.7/2.8

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| A5.O.1
(2213) | MEASUREMENT OF THE DIELECTRIC PROPERTIES OF BIOLOGICAL TISSUE AT MICROWAVE FREQUENCIES - A STATISTICAL PERSPECTIVE
Camelia Gabriel (United Kingdom) et al. (3 authors) (I) |
| A5.O.2
(1759) | DIELECTRIC PROPERTIES OF THE HUMAN BRAIN MEASURED LESS THAN 10 HOURS POST MORTEM
Gernot Schmid (Austria) et al. (3 authors) (I) |
| A5.O.3
(1960) | DIELECTRIC MEASUREMENTS OF BRAIN PHANTOM AND STANDARD MATERIALS
Christopher Davis (United States of America) et al. (3 authors) (I) |
| A5.O.4
(2110) | NOVEL HIGH RESOLUTION TEMPERATURE PROBE FOR MICRO DOSIMETRY
Jürgen Schuderer (Switzerland) et al. (4 authors) (I) |

AB1 ANTENNA AND ELECTROMAGNETIC FIELD MEASUREMENTS (I,C,P)

Thorsten Schrader (A, Germany)

Oral session

Wednesday, August 21, 2002 - afternoon

Room: 2.7/2.8

- AB1.O.1 A THEORETICAL COMPARISON BETWEEN THREE PLANAR NEAR TO FAR-FIELD
(891) TRANSFORMATION METHODS FOR ANTENNA MEASUREMENTS
Jesús Ramón Pérez (Spain) et al. (2 authors)
- AB1.O.2 PHASELESS PLANAR NEAR-FIELD ANTENNA MEASUREMENTS: RECENT PROGRESS AND
(235) DEVELOPMENTS
Yahya Rahmat-Samii (United States of America) (I)
- AB1.O.3 REMOTE CALIBRATION OF LARGE ANTENNAS
(2077) Ronald C. Wittmann (United States of America) et al. (2 authors) (I)
- AB1.O.4 ANTENNA MINIATURIZATION TECHNIQUES FOR APPLICATIONS IN COMPACT WIRELESS
(2037) TRANSCIEVERS
Kamal Sarabandi (United States of America) et al. (4 authors)
- AB1.O.5 A FIVE-BAND ANTENNA FOR TERRESTRIAL AND SATELLITE RADIO SERVICES
(1109) Stefan Lindenmeier (Germany) et al. (4 authors)
- AB1.O.6 DESIGN AND SETUP OF A UWB SIMULATOR FOR SUCEPTIBILITY INVESTIGATIONS
(582) Frank Sabath (Germany) et al. (4 authors) (I)
- AB1.O.7 MINIATURIZED ELECTRO-OPTICAL E-FIELD PROBE WITH HIGH SENSITIVITY AND OPTICAL
(1928) POWER SUPPLY
Wieland Mann (Germany) et al. (2 authors)
- AB1.O.8 EFFICIENT LARGE-SCALE UNDERGROUND UTILITY MAPPING
(1137) Thorkild Hansen (United States of America) et al. (10 authors) (I)
- AB1.O.9 NEW TECHNIQUES FOR CALIBRATING ACROSS-THE-ROAD TRAFFIC RADARS
(644) Claude M. Weil (United States of America) et al. (4 authors)
- AB1.O.10 FULL SCALE SEGMENTED RADOME PERFORMANCE EVALUATION USING A SSR ANTENNA
(2133) Stavros Papadopoulos (United Kingdom)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- AB1.P.1 A NOVEL WIDE BAND PLANAR ANTENNA
(82) Hongjian Wang (P. R. China)
- AB1.P.2 MICROWAVE CAVITY ANTENNA
(377) Nikolai Voitovitch (RUSSIA) et al. (3 authors)
- AB1.P.3 DC FIELD SENSORS-UNUSUAL APPROACH
(414) Uri Suissa (Israel) et al. (3 authors)
- AB1.P.4 FINITE PATCH ARRAY AS REFLECTOR FOR ANTENNA GAIN IMPROVEMENT AND SIZE REDUCTION
(493) Ying Zhang (Germany) et al. (4 authors)

Commission A

URSI GA 2002 - Oral and Poster Sessions

AB1.P.5 (775)	FAR-FIELD PATTERN RECONSTRUCTION FROM NONUNIFORMLY DISTRIBUTED PLANE-POLAR SAMPLES Flaminio Ferrara (Italy) et al. (4 authors)
AB1.P.6 (1150)	A METHOD OF FREQUENCY BAND BROADENING FOR DIPOLE ANTENNAS Lev Bakhrakh (Russia) et al. (4 authors)
AB1.P.7 (1166)	INVESTIGATIONS ON LOW PROFILE WIDE BAND SLOT ANTENNAS FOR WIRELESS COMMUNICATIONS Satish Sharma (Canada) et al. (3 authors)
AB1.P.8 (1456)	HALF-MOON ANTENNA ARRAY Hisamatsu Nakano (Japan) et al. (4 authors)
AB1.P.9 (1486)	SHAPING OF DIRECTIONAL DIAGRAMS OF ANTENNAS FOR THE PURPOSES OF REMOTE SPACE EXAMINATIONS RUSLAN ZALUZHNYJ (Ukraine)
AB1.P.10 (1565)	A NEW ANTENNA CALIBRATION METHOD AND A SELECTION OF A MEASUREMENT PROBE WITH MINIMAL DISTURBANCE AND SUFFICIENT SENSITIVITY FOR ELECTROMAGNETIC EXPOSURE MEASUREMENTS AROUND WIRELESS BASE STATIONS. Wout Joseph (Belgium) et al. (2 authors)
AB1.P.11 (1593)	ANALYSIS OF DIELECTRIC RESONATORS AND FINITE SIZE MICROSTRIP ANTENNAS USING THE INTEGRAL EQUATION TECHNIQUE Fernando D. Quesada Pereira (Spain) et al. (2 authors)
AB1.P.12 (1821)	OPTIMUM EXCITATION OF SURFACE WAVES ON A PLANAR STRUCTURE Samir Mahmoud (Kuwait) et al. (3 authors)
AB1.P.13 (2195)	A STUDY OF OMNIDIRECTIONAL ANTENNA FOR WIRELESS COMMUNICATIONS IN 18 GHZ BAND Aleksandr Teplyuk (Ukraine)

AB2		TIME-DOMAIN MEASUREMENTS AND ANALYSIS (I,C,P)	
		Heyno Garbe (A, Germany) and Anton G. Tijhuis (B, The Netherlands)	
		<i>Oral session</i>	<i>Friday, August 23, 2002 - afternoon</i>
			<i>Room: 2.7/2.8</i>
AB2.O.1 (831)	INFLUENCE OF REALISTIC SPECTRAL TRANSFER FUNCTION TO TIME DOMAIN MEASUREMENTS Heyno Garbe (Germany) (I)		
AB2.O.2 (580)	NEAR FIELD DISPERSION OF IMPULSE RADIATION Frank Sabath (Germany) (I)		
AB2.O.3 (699)	A FRAME BASED PHASE-SPACE BEAM AND PULSED BEAM SUMMATION FORMULATION FOR ULTRA WIDEBAND / SHORT PULSE RADIATION Amir Shlivinski (Israel) et al. (4 authors)		
AB2.O.4 (2227)	DETECTION OF A BURIED OBJECT WITH PULSE-COMPENSATED WIRE ANTENNAS Stefan Vossen (The Netherlands) et al. (4 authors) (I)		
AB2.O.5 (2197)	DISPERSION DISTORTIONS OF PULSE SIGNAL IN RADIO CHANNEL _POLYFOCAL ANTENNA _ IONOSPHERIC PLASMA_ Eugeniy Palkin (Russia) et al. (2 authors)		
AB2.O.6 (1133)	A SPATIAL-FREQUENCY FILTER FOR TIME-DOMAIN FAR FIELDS Claus-Christian Oetting (Germany) et al. (2 authors)		
AB2.O.7 (2124)	TRANSIENT FIELDS IN MODE-STIRRED CHAMBERS Hans Georg Krauthäuser (Germany) et al. (2 authors) (I)		
AB2.O.8 (2060)	DIFFERENTIAL MODE DELAY - FULL-WAVE MODELLING AND VARIOUS LEVELS O APPROXIMATIONS Marianne Bingle (The Netherlands) et al. (2 authors)		
AB2.O.9 (2215)	PRACTICAL RESULTS CONCERNING THE PREDICTION OF DAMAGING EFFECTS FOR LIGHTNING IMPULSES (LEMP) Ernst Gockenbach (Germany) (I)		
AB2.O.10 (1014)	DEVELOPMENT OF A RESISTIVE VOLTAGE DIVIDER FOR THE MEASUREMENT OF VERY HIGH VOLTAGES IN THE GIGAHERTZ DOMAIN Wolfgang Knorr (France) et al. (3 authors) (I)		
		<i>Poster session</i>	<i>Thursday, August 22, 2002 - P2</i>
			<i>Room: Expo Foyer</i>
AB2.P.1 (692)	A PARALLEL IMPLEMENTATION STRATEGY FOR THE FDTD ALGORITHM Zheng-Hui Xue (P. R. China) et al. (4 authors)		

AC1 ADVANCES IN SYNCHRONIZATION BETWEEN SATELLITES AND GROUND (I,C,P)

Sigfrido Leschiutta (C, Italy)

Oral session

Monday, August 19, 2002 - morning

Room: 2.7/2.8

AC1.O.1
(577) COMPARISONS OF CLOCKS BY GPS AND TWSTFT
Jacques Azoubib (France) et al. (2 authors) (I)

AC1.O.2
(896) IGS/BIPM PILOT PROJECT FOR ACCURATE TIME AND FREQUENCY COMPARISONS
Jim Ray (United States of America) (I)

AC1.O.3
(750) TIME TRANSFER WITHIN IGS AND LINK TO TAI.
Pascale DEFRAIGNE (Belgium) et al. (4 authors) (I)

AC1.O.4
(572) ATMOSPHERIC PERTURBATIONS ON GNSS SIGNALS AND THEIR INFLUENCE ON TIME TRANSFER APPLICATIONS.
René Warnant (Belgium) (I)

AC1.O.5
(666) GENERAL AND SPECIAL RELATIVITY THEORY CONSIDERATIONS IN MAKING ENDS MEET: GLONAS AND GPS GROUND -TIME SYNCHRONIZATION
A ArRajehi (Saudi Arabia)

AC1.O.6
(223) A MODIFIED PN CODE TRACKING LOOP FOR DIRECT-SEQUENCE SPREAD-SPECTRUM COMMUNICATION OVER ARBITRARILY CORRELATED MULTIPATH FADING CHANNELS
Jia-Chin Lin (R.O. China)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

AC1.P.1
(1498) APPLICATION OF RADIO-NAVIGATING METHODS FOR PERSPECTIVE HIGH ELLIPTICAL ORBIT SPACE VEHICLES OF SCIENTIFIC ASSIGNMENT
Mikhail Yanovsky (Russia) et al. (3 authors)

AC2 FREQUENCY STANDARDS IN OPTICAL AND RF TELECOMMUNICATION SYSTEMS, APPLICATIONS AND REQUIREMENTS (I,C,P)

Uwe Sterr (A, Germany)

Oral session Wednesday, August 21, 2002 - morning Room: 2.7/2.8

- AC2 .O.1 DEVELOPMENT OF OPTICAL FREQUENCY STANDARDS IN THE 1.5 MICRON REGION FOR WDM
(1624) Ken'ichi Nakagawa (Japan) et al. (2 authors) (I)
- AC2 .O.2 WAVELENGTH REFERENCE MATERIALS FOR OPTICAL TELECOMMUNICATIONS –
(600) DEVELOPMENT AND CHARACTERISATION
Gesine Grosche (Germany) (I)
- AC2 .O.3 MOLECULES AS ABSOLUTE STANDARDS FOR OPTICAL TELECOMMUNICATION: REQUIREMENTS
(1777) AND CHARACTERIZATION
Jan Petersen (Denmark) et al. (2 authors) (I)
- AC2 .O.4 COMPACT WAVELENGTH REFERENCE FOR OPTICAL TELECOMMUNICATION BASED ON A
(1512) TUNABLE SILICON ETALON
Jesse Tuominen (Finland) et al. (4 authors) (I)
- AC2 .O.5 MEASURING AND REGULATING ELECTROMAGNETIC PHASE IN COMMUNICATION SYSTEMS
(1826) Haris Music (Sweden) et al. (2 authors) (I)
- AC2 .O.6 SYMBOL TIMING RECOVERY ISSUES IN MULTICARRIER MODULATION
(2196) Fred Daneshgaran (United States of America) et al. (2 authors) (I)
- AC2 .O.7 NOVEL IMPROVED APPROACH OF DIGITAL FREQUENCY SYNTHESIS
(942) Vladimir Stofanik (Slovak Republic) et al. (2 authors)

Poster session Tuesday, August 20, 2002 - P1 Room: Expo Foyer

- AC2 .P.1 FREQUENCY STABILIZED ER-YB LASER ON 13C2H2 SATURATED ABSORPTIONS AT AROUND 1.54
(1766) μM
Cesare Svelto (Italy) et al. (6 authors)

AD INTERCONNECTS AND PACKAGING IN HIGH-SPEED ELECTRONICS (I,C,P)
Hartmut Grabinski (A, Germany) and Stavros Iezekiel (D, UK)

Oral session *Friday, August 23, 2002 - morning* *Room: 2.7/2.8*

- AD.O.1 A GENERAL CLASS OF PASSIVE MACROMODELS FOR LOSSY MULTICONDUCTOR
TRANSMISSION LINES WITH FREQUENCY-DEPENDENT PARAMETERS
(882) Michel Nakhla (Canada) et al. (3 authors) (I)
- AD.O.2 CHARACTERISTIC IMPEDANCE MEASUREMENT OF PLANAR TRANSMISSION LINES
(956) Uwe Arz (United States of America) et al. (3 authors) (I)
- AD.O.3 REACTIONS BETWEEN FILAMENTARY AND FINITE WIDTH ROOFTOP TEST AND EXPANSION
FUNCTIONS IN INHOMOGENEOUSLY-FILLED STRIPLINE STRUCTURES
(1319) John L. Prince (United States of America) et al. (2 authors) (I)
- AD.O.4 ELECTRO-OPTIC SAMPLING FOR INTERCONNECT ANALYSIS
(1736) Richard Dudley (United Kingdom) (I)
- AD.O.5 INTERCONNECTS FOR A MULTI-LAYER THREE-DIMENSIONAL SILICON ARCHITECTURE
(2032) Linda Katehi (United States of America) et al. (3 authors) (I)
- AD.O.6 INTERCONNECTS IN 50-100 GHZ INTEGRATED CIRCUITS
(2121) Mark Rodwell (United States of America) (I)
- AD.O.7 CHARACTERIZATION OF VIA STRUCTURES IN MULTILAYER PRINTED CIRCUIT BOARDS
(1627) Taras Kushta (Japan) et al. (8 authors)

Poster session *Thursday, August 22, 2002 - P2* *Room: Expo Foyer*

- AD.P.1 FDTD MODELING OF VOID DEFECTS IN VLSI INTERCONNECTIONS
(1059) Federico Alimenti (Italy) et al. (7 authors)
- AD.P.2 THE STABILISING EFFECT OF GHOST FIELD GAUGING ON NUMERICAL SIMULATIONS OF
MAXWELL'S EQUATIONS
(1516) Peter Meuris (Belgium) et al. (2 authors)
- AD.P.3 DIFFRACTION EFFECTS IN FREE-SPACE OPTICAL INTERCONNECTS
(1639) Novak S. Petrovic (Australia) et al. (3 authors)

AE

EMC MEASUREMENTS (I)

Andrew C. Marvin (A, UK) and Jon Schoenberg (E, USA)

Oral session

Saturday, August 24, 2002 - morning

Room: 2.7/2.8

- AE.O.1 (574) EM-FIELD STANDARDS AND THEIR COMPARISON (IN MEMORIAM OF PROF. MOTOHISA KANDA)
Eugeniusz Grudzinski (Poland) et al. (2 authors) (I)
- AE.O.2 (806) CALCULATING THE USABLE FREQUENCY RANGE OF TEM-WAVEGUIDES
Heyno Garbe (Germany) et al. (2 authors) (I)
- AE.O.3 (1048) HYBRID MODAL&METHOD-OF-MOMENTS ANALYSIS OF THE INTERACTION BETWEEN A
GTEM-CELL AND A DEVICE UNDER TEST
Michael Zellerhoff (Germany) et al. (2 authors)
- AE.O.4 (886) AN INDIRECT METHOD FOR MEASURING THE RADIATION IMPEDANCE OF AN UNKNOWN
ANTENNA STRUCTURE
Jari Jekkonen (United Kingdom) et al. (3 authors)
- AE.O.5 (1168) MEASURING THE IMMUNITY OF DIGITAL HARDWARE USING THE RE-EMISSION SPECTRUM
Andrew Marvin (United Kingdom) et al. (3 authors)
- AE.O.6 (1564) A NOVEL TIME-DOMAIN ELECTROMAGNETIC INTERFERENCE (TDEMI) MEASUREMENT SYSTEM
Florian Krug (Germany) et al. (2 authors)
- AE.O.7 (478) THREE-ANTENNA METHOD ON A GROUND PLANE FOR MEASURING COMPLEX ANTENNA
FACTOR
Takashi Iwasaki (Japan) et al. (2 authors)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- AE.P.1 (88) A NEW IMPLEMENTATION OF ANSI C.63.5 FOR 1M-ANTENNA CALIBRATION
Bahattin TÜRETKEN (Turkey)
- AE.P.2 (938) EMC AND RFI ENVIRONMENT ASPECTS FOR WIDE AREA SENSOR NETWORKS
Albert-Jan Boonstra (The Netherlands) et al. (3 authors)
- AE.P.3 (1158) AN OPTIMISATION OF STIRRER DESIGNS FOR MODE STIRRED CHAMBERS
Janet Clegg (United Kingdom) et al. (4 authors)
- AE.P.4 (1927) CARACTÉRISATION EXPÉRIMENTALE DE SONDES DE CHAMP PROCHE MINIATURES
Zacharia OUARDIRHI (Canada) et al. (2 authors)

Commission B - FIELDS AND WAVES

Chair: S. Ström (Sweden) Vice-chair: M. Ando (Japan)

B1

ELECTROMAGNETIC THEORY (I,C,P)

Paul D. Smith (UK) and Ismo V. Lindell (Finland)

Oral session

Tuesday, August 20, 2002 - afternoon

Room: Aud. 2

- B1.O.1 AN ANALYTIC PERFORMANCE ANALYSIS OF A CLASS OF 3D PERFECTLY MATCHED EMBEDDINGS FOR TIME-DOMAIN ELECTROMAGNETIC FIELD COMPUTATION
(854) Adrianus De Hoop (The Netherlands) et al. (3 authors) (I)
- B1.O.2 GENERALIZED HERTZ POTENTIALS FOR BIANISOTROPIC MEDIA
(828) Frank Olyslager (Belgium) et al. (2 authors) (I)
- B1.O.3 INTEGRABILITY OF MAXWELL-BLOCH SYSTEMS
(1437) John Arnold (United Kingdom) (I)
- B1.O.4 FOUR WAYS OF DEDUCING MAXWELL EQUATIONS FROM THEIR MICROSCOPIC COUNTERPARTS -- LORENTZ'S THEORY OF ELECTRONS REVISITED
(1304) Martin Verweij (The Netherlands)
- B1.O.5 DIFFRACTION FROM 2-D ARBITRARY STRUCTURES WITH CAVITIES OR EDGES: A RIGOROUS APPROACH
(913) Elena Vinogradova (United Kingdom) et al. (2 authors) (I)
- B1.O.6 A COMPARATIVE RCS STUDY OF TWO CANONICAL, PARALLEL-PLATE WAVEGUIDE CAVITIES
(749) Shoichi Koshikawa (Japan) et al. (2 authors) (I)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- B1.P.1 THE APPLICATION OF THE COUNTER-PROPAGATION DEDUCTION (CPD) METHOD IN THE ANALYSIS OF THE EM FIELD IN SPHERICALLY STRATIFIED MEDIA
(38) Qingyi Zhang (P. R. China) et al. (2 authors)
- B1.P.2 A COMPACT BICONICAL ANTENNA WITH IMPROVED RADIATION PATTERN
(39) Oleksiy Kim (Denmark)
- B1.P.3 SOME ERRORS IN SCATTERING WITH COMPLEX SOURCE POINT BEAM ARRAYS
(238) Edward Jull (Canada) et al. (2 authors)
- B1.P.4 PARTICULAR FEATURES OF WAVE FIELDS OF SOME SOURCES IN MOVING NONDISPERSIVE MEDIA
(246) Andrey Tyukhtin (Russia) et al. (2 authors)
- B1.P.5 GENERALIZED TRANSMISSION LINE EQUATIONS
(428) YAOWU LIU (P.R. China)
- B1.P.6 A MODERN APPROACH TO COMPLEX PROPAGATION PROBLEMS IN CONFINED MEDIA
(473) Moïse Ndoh (Canada) et al. (2 authors)
- B1.P.7 A NEW HYBRID METHOD FOR ELECTROMAGNETIC SCATTERING
(707) Youri Smirnov (Russia)

B1.P.8 (741)	NOVEL CLOSED-FORM STATIC GREEN'S FUNCTIONS FOR CERTAIN PEC AND PMC STRUCTURES Keijo Nikoskinen (Finland)
B1.P.9 (801)	WAVE PROPAGATION IN AN ANISOTROPIC ELECTROMAGNETIC COATING Ivan Andronov (Russia)
B1.P.10 (824)	ON THE USE OF THE FRILL GENERATOR IN INTEGRAL EQUATIONS FOR WIRE ANTENNAS George Fikioris (Greece) et al. (3 authors)
B1.P.11 (867)	COLLISION OPERATOR IN STRONG EM FIELDS Alexey Balakin (Russia) et al. (2 authors)
B1.P.12 (907)	THE SPACE-TIME THEORY OF WAVE CATASTROPHES Andrew S. Kryukovsky (Russia) et al. (3 authors)
B1.P.13 (908)	TOWARDS A THEORY OF ELECTRODYNAMICS ON FRACTALS: REPRESENTATION OF FRACTAL CURVES AND ELECTROMAGNETIC INTEGRAL EQUATIONS IN FRACTAL DOMAINS Massimiliano Giona (Italy) et al. (8 authors)
B1.P.14 (983)	INFLUENCE OF QUASI-PHYSICAL SOLUTIONS ON NEAR FIELDS IN PRINTED-CIRCUIT TRANSMISSION-LINE DISCONTINUITIES Mikio Tsuji (Japan) et al. (2 authors)
B1.P.15 (1016)	THE TAPER SHAPES DESIGN CHARTS FOR KLOPFENSTEIN AND HECKEN TYPE MICROSTRIP LINE TAPERS BY MODE-MATCHING AND FDTD TECHNIQUES. Hirokimi Shirasaki (Japan)
B1.P.16 (1033)	MODELING OF COUPLING SCREW IN CYLINDRICAL MULTIMODAL CAVITY FILTERS Tân-Phu VUONG (France) et al. (6 authors)
B1.P.17 (1108)	VOLUME SINGULAR INTEGRAL EQUATION METHOD IN SCATTERING THEORY Alexander Samokhin (Russia)
B1.P.18 (1152)	THE IMPORTANCE OF THE VELOCITY TERM IN THE ELECTROMAGNETIC FORMING PROCESS T.E. MANEA (THE NETHERLANDS) et al. (3 authors)
B1.P.19 (1184)	A COUPLED INTEGRAL EQUATION TECHNIQUE FOR THE ANALYSIS AND DESIGN OF COMPONENTS IN CIRCULAR WAVEGUIDE TECHNOLOGY Jens Bornemann (Canada) et al. (2 authors)
B1.P.20 (1190)	A RIGOROUS APPROACH TO WAVE SCATTERING BY ELLIPTIC DISKS AND RELATED PROBLEMS Sergey Vinogradov (United Kingdom) et al. (2 authors)
B1.P.21 (1315)	FINITE ELEMENT SOLUTION FOR MAGNETOSTATICS USING VECTOR MAGNETIC POTENTIAL William Davis (United States of America) et al. (2 authors)
B1.P.22 (1346)	ABERRATION IN QUASI-OPTICAL FEED-SYSTEMS Derek Martin (England) et al. (3 authors)
B1.P.23 (1397)	EFFICIENT ANALYSIS OF A THIN-WIRE ANTENNA ATTACHED TO A BODY John Young (United States of America) et al. (2 authors)
B1.P.24 (1417)	EMPIRICAL EQUATIONS FOR ELECTRICAL PARAMETERS OF ASYMMETRICAL COUPLED MICROSTRIP LINES Ibrahim Barseem/mohamed (Egypt)

B1.P.25 (1511)	ANALYSIS OF ANISOTROPIC NONRADIATIVE DIELECTRIC (NRD)-GUIDES USING COUPLED MODE THEORY Amilcar Cesar/Careli (Brazil)
B1.P.26 (1546)	NONLINEAR DYNAMICS OF SHORT PULSES IN OPTICAL FIBRES WITH STRONG TRANSVERSE AND WEAK LONGITUDINAL INHOMOGENEITIES Mikhail Bisyarin (Russia) et al. (2 authors)
B1.P.27 (1547)	DIFFRACTION BY AN ANISOTROPIC HALF PLANE Thomas Senior (United States of America) et al. (2 authors)
B1.P.28 (1650)	ON FOSTER'S REACTANCE THEOREM FOR METAMATERIALS WITH NEGATIVE PERMITTIVITY AND PERMEABILITY Nader Engheta (United States of America)
B1.P.29 (1767)	MULTISCALE APPROACH FOR MICROWAVE CIRCUIT STUDY Frederic Surre (France) et al. (3 authors)
B1.P.30 (1824)	WAVE PROPAGATION IN TVFD/TDFV COLD PLASMA Taner Sengor (Turkey)
B1.P.31 (1834)	MODE ANALYSIS OF INHOMOGENEOUS MULTILAYERED WAVEGUIDES WITH ANISOTROPIC MATERIALS OF VARIABLE THICKNESS Reinhold Pregla (Germany)
B1.P.32 (2095)	A NEW APROACH TO V-DIPOLE ANTENNA Dejan M. Petkovic (Yugoslavia) et al. (2 authors)
B1.P.33 (2123)	THE INPUT IMPEDANCE FUNCTION FOR GENERAL FRACTAL GRATINGS Mario Lehman (Mexico) et al. (2 authors)
B1.P.34 (2145)	ON THE APPLICATION OF A PATTERN EQUATION METHOD TO SOLVE THE 3D ELECTROMAGNETIC SCATTERING PROBLEM BY AN IMPEDANCE BODY WITH A PIECEWISE SMOOTH SURFACE Alexander G. Kyurkchan (Russia) et al. (2 authors)
B1.P.35 (2179)	COMPACT CORRUGATED HORNS P.J.B. Clarricoats (United Kingdom) et al. (3 authors)
B1.P.36 (2224)	USING EXTRAPOLATION IN THE ITERATIVE SOLUTION OF SCATTERING PROBLEMS WITH A VARYING PARAMETER Anton Tijhuis (The Netherlands) et al. (3 authors)
B1.P.37 (2276)	PROPAGATION AND SCATTERING MODEL THROUGH CLEAR AIR TURBULENCE Alexandre Lebrère (France) et al. (3 authors)

B2

SCATTERING AND DIFFRACTION (I,C,P)

Karl J. Langenberg (Germany) and Marc Saillard (France)

Oral session

Tuesday, August 20, 2002 - morning

Room: Aud. 2

B2.O.1 UNUNIQUENESS IN INVERSE OBSTACLE SCATTERING FOR ELECTROMAGNETIC WAVES
(132) Rainer Kress (Germany) (I)

B2.O.2 ANALYSIS OF ELECTROMAGNETIC DIFFRACTION BY WEDGES WITH THE METHOD OF EDGE
(1235) FUNCTIONS
Andrey Osipov (Germany) (I)

B2.O.3 POLARISATION EFFECTS IN SURFACE AND VOLUME SCATTERING
(630) Shane Cloude (United Kingdom) (I)

B2.O.4 NONLINEAR ELECTROMAGNETICS
(1762) Daniel Sjöberg (Sweden) (I)

B2.O.5 DUAL-SURFACE INTEGRAL EQUATIONS IN ELECTROMAGNETIC SCATTERING
(460) Robert Shore (United States of America) et al. (2 authors)

B2.O.6 APPLICATIONS OF HOMOGENIZATION IN ELECTROMAGNETICS
(636) Keith Whites (United States of America) (I)

B2.O.7 FRACTAL SUPERLATTICES: SCATTERING AND INVERSE SCATTERING
(1843) Dwight L. Jaggard (United States of America) et al. (3 authors) (I)

B2.O.8 DENSE MEDIA SCATTERING BASED ON NUMERICAL SIMULATIONS
(999) Leung Tsang (P.R. China) et al. (6 authors) (I)

B2.O.9 RECENT DEVELOPMENTS ON 3D MODELING OF RANDOM ROUGH SURFACES
(1508) M. Y. Xia (P. R. China) et al. (5 authors) (I)

B2.O.10 AN IMPROVED BISTATIC TWO-SCALE MODEL FOR THE OCEAN SURFACE SCATTERING
(1573) Gabriel Soriano (France) et al. (2 authors) (I)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

B2.P.1 EFFECT OF RAPID WAVE SCATTERING ON A _CORRUGATED_ ELECTRON BEAM AND ITS US
(10) FOR MICROWAVE PULSE COMPRESSION
Andrey Savilov (Russia)

B2.P.2 DIFFRACTION GENERALIZATIONS OF THE GEOMETRICAL OPTICS
(140) Yurii Kravtsov (Russia)

B2.P.3 NEAR FIELDS SCATTERED BY SMALL AND LARGE SCALE RANDOM OR QUASI PERIODIC ROUGH
SURFACES AND LATERAL FLUCTUATIONS IN THE PERMITTIVITY AND PERMEABILITY OF
NANOSTRUCTURES FOR THE SYNTHESIS AND MODIFICATION OF THE OPTICAL
CHARACTERISTICS
(149) Ezekiel Bahar (United States of America)

B2.P.4 A REVIEW OF MODELS FOR POLARIMETRIC THERMAL EMISSION FROM THE SEA SURFACE
(211) Joel Johnson (United States of America)

- B2.P.5 AN ASYMPTOTICALLY EXACT TECHNIQUE FOR ELECTROMAGNETIC SCATTERING BY
UNIFORMLY MOVING OBJECTS WITH ARBITRARY GEOMETRY
(509) Danilo Anatriello (Italy) et al. (3 authors)
- B2.P.6 FREQUENCY-DEPENDENT FDTD ANALYSIS OF LIGHT-BEAM SCATTERING FROM MO DISK
MODELS WITH LAND/GROOVE RECORDING STRUCTURES
(560) Toshitaka Kojima (Japan) et al. (4 authors)
- B2.P.7 JOINT APPLICATION OF IEM AND RADIATIVE TRANSFER FORMULATIONS FOR THE BISTATIC
SCATTERING OF ROUGH SURFACES
(629) Fifiame KOUDOGBO (France) et al. (3 authors)
- B2.P.8 UNIVERSAL MODIFICATIONS OF THE 2D AND 3D METHOD OF DISCRETE SOURCES
(690) Alexandre Anioutine (Russia) et al. (3 authors)
- B2.P.9 GALERKIN METHOD FOR SOLVING OF SINGULAR INTEGRAL EQUATION OF DIFFRACTION
PROBLEM.
(706) Alexey Tsupak (Russia) et al. (2 authors)
- B2.P.10 APPLICATION OF COMBINED FIELD INTEGRAL EQUATION FOR ELECTROMAGNETIC
SCATTERING PROBLEMS
(829) Pasi Ylä-Oijala (Finland) et al. (2 authors)
- B2.P.11 APPLICATION OF THE CATASTROPHE THEORY FOR MATHEMATICAL MODELING OF TH EM
WAVE SCATTERING
(876) Andrew S. Kryukovsky (Russia) et al. (2 authors)
- B2.P.12 WAVE SCATTERING BY SEMI-INFINITE STRUCTURES
(911) Leonid Lytvynenko (Ukraine) et al. (3 authors)
- B2.P.13 BISTATIC CROSS-SECTIONS OF CONCAVE-CONVEX CONDUCTING CYLINDERS IN A
CONTINUOUS RANDOM MEDIUM
(992) Mitsuo Tateiba (Japan) et al. (3 authors)
- B2.P.14 THE SILICON TRENCH SHAPE MEASUREMENT SIMULATION BY SCATTEROMETRY AND
WAVELET ANALYSIS USING BEM AND FDTD METHODS.
(1032) Hirokimi Shirasaki (Japan)
- B2.P.15 RADIO WAVE PROPAGATION INSIDE TWO ADJACENT PARTIALLY DIELECTRIC LOADED
TROUGHES
(1240) Ryoichi Sato (Japan) et al. (2 authors)
- B2.P.16 WIENER-HOPF ANALYSIS OF THE FIELD SCATTERED BY THE EDGE OF A TRUNCATED UPPER
CONDUCTOR, PARALLEL PLANE WAVEGUIDE LOADED WITH MAGNETIZED PLASMA
(1267) George Kyriacou (Greece) et al. (3 authors)
- B2.P.17 THE DIFFRACTION BY A CURVED IMPEDANCE WEDGE : DIFFRACTED AND CREEPING WAVES
(1310) J.M.L. BERNARD (France)
- B2.P.18 SCATTERING ON ALPHA-STABLE NON-GAUSSIAN ROUGH SURFACES
(1581) Charles-Antoine GUERIN (France)
- B2.P.19 LINE-OF-SIGHT APPROXIMATION TO THE EQUIVALENCE PRINCIPLE FOR FAR-FIELD
COMPUTATIONS
(1830) Nagula Sangary (Canada) et al. (2 authors)

Commission B

URSI GA 2002 - Oral and Poster Sessions

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| B2.P.20
(2159) | PHASE RESONANCES IN DIFFRACTION GRATINGS
Diana Skigin (Argentina) et al. (3 authors) |
| B2.P.21
(2171) | DIFFRACTION BY A SYSTEM CONSISTING OF A GRATING AND A LAYERED CHIRAL MEDIUM
Sergey Panin (Ukraine) et al. (2 authors) |
| B2.P.22
(69) | CALCULATION OF ELECTROMAGNETIC SCATTERING FROM THREE-DIMENSIONAL ANISOTROPIC OBJECTS
Xiuqin Zhu (P. R. China) et al. (4 authors) |

B3

TIME DOMAIN ELECTROMAGNETICS (I,C,P)

Edmund K. Miller (USA) and Rafael Gomez Martin (Spain)

Oral session

Thursday, August 22, 2002 - morning

Room: Aud. 2

- B3.O.1 SIMPLE MODELS FOR EXPLAINING ANTENNA RECEPTION AND SCATTERING IN THE TIME DOMAIN
(91) Glenn Smith (United States of America) (I)
- B3.O.2 CIRCUIT AND WAVEGUIDE THEORIES OF ANTENNAS IN THE TIME AND FREQUENCY DOMAINS
(396) Harry Green (Australia) (I)
- B3.O.3 A TIME-DOMAIN VERSION OF POINT-SOURCE COHERENCE
(1259) Edmund Miller (United States of America) et al. (2 authors) (I)
- B3.O.4 A CLASS OF BENCHMARK PROBLEMS FOR TRANSIENT SCATTERING BY METALLIC TARGETS
(906) Stuart Booker (United Kingdom) et al. (2 authors) (I)
- B3.O.5 OPTIMIZATION OF WIRE ANTENNAS BY USING GENETIC ALGORITHMS DIRECTLY IN TIME DOMAIN
(1117) Mario Fernandez Pantoja (Spain) et al. (3 authors) (I)
- B3.O.6 ANTENNA ARRAY SYSTEMS FOR MICROWAVE IMAGING OF BREAST TUMORS
(1575) M. A. Hernández-López (Spain) et al. (5 authors) (I)
- B3.O.7 TRANSIENT RESPONSE OF A SINGLE WIRE TRANSMISSION LINE ABOVE A DIELECTRIC HALF-SPACE
(94) Dragan Poljak (Croatia) et al. (2 authors) (I)
- B3.O.8 A STABILITY ANALYSIS FOR THE INTEGRAL EQUATION METHOD IN TIME DOMAIN
(1885) Giuliano Manara (Italy) et al. (3 authors) (I)
- B3.O.9 SOLUTION AND STABILITY ANALYSIS OF A NEW INTEGRAL EQUATION FOR THE TRANSIENT SCATTERING BY A FLAT, RECTANGULAR CONDUCTING PLATE
(2225) Jos Van Riswick (The Netherlands) et al. (2 authors) (I)
- B3.O.10 RECENT DEVELOPMENTS IN FDTD-RELATED SCHEMES FOR TIME-DOMAIN ANALYSIS OF FREQUENCY CONVERSION IN NONLINEAR OPTICAL STRUCTURES
(2031) Susan Hagness (United States of America) et al. (2 authors) (I)
- B3.O.11 TLM SIMULATION OF ELECTROMAGNETIC WAVE PROPAGATION IN MOVING MEDIA
(1145) Ana Cristina L. Cabeceira (Spain) et al. (3 authors) (I)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- B3.P.1 ENHANCED TLM METHOD FOR AIRFLOW APERTURE ARRAYS MODELLING
(41) Nebojsa Doncov (United Kingdom) et al. (4 authors)
- B3.P.2 A NON-UNIFORM PSEUDO-SPECTRAL TIME DOMAIN (NU-PSTD) METHOD IN ONE-DIMENSIONAL APPLICATIONS
(393) Ming-Sze Tong (Germany) et al. (2 authors)

B3.P.3 (671)	SUBGRIDDED FDTD SIMULATION OF ELECTROMAGNETIC FIELDS IN INHOMOGENEOUS EARTH MEDIA FOR GEOPHYSICAL PROBING APPLICATIONS F. L. Teixeira (United States of America) et al. (2 authors)
B3.P.4 (850)	ANTENNA MODELLING USING THE DGF-FDTD METHOD Weili Ma (United Kingdom) et al. (3 authors)
B3.P.5 (1089)	A FEASIBILITY STUDY ABOUT A CUSTOM HARDWARE IMPLEMENTATION OF THE FDTD ALGORITHM Leonardo Verducci (Italy) et al. (7 authors)
B3.P.6 (1251)	WAVELET-BASED ELECTROMAGNETIC ANALYSIS OF NON-LINEAR OPTICAL STRUCTURES Masafumi Fujii (Germany) et al. (3 authors)
B3.P.7 (1290)	NL2N-FDTD: A NOVEL ALGORITHM FOR THE MODELLIZATION OF MULTI-PORT NON-LINEAR CIRCUITS WITHIN THE FDTD FRAMEWORK Gianluca Emili (Italy) et al. (5 authors)
B3.P.8 (2042)	ADAPTIVE MODELING AND DESIGN OF PACKAGING MICROSYSTEMS AND MEMS FOR WIRELESS COMMUNICATION MODULES Edan Dalton (United States of America) et al. (3 authors)
B3.P.9 (2199)	RF DESIGN OF MOBILE PHONES BY TCAD: SUITABILITY AND LIMITATIONS OF FDTD Nicolas Chavannes (Switzerland) et al. (4 authors)

B4 **INVERSE SCATTERING AND IMAGING (I,C,P)**
Gerhard Kristensson (Sweden) and Tarek Habashy (USA)

Oral session *Wednesday, August 21, 2002 - afternoon* *Room: Aud. 2*

- B4.O.1 DIFFUSIVE AND PROPAGATIVE WAVE FIELD INVERSION WITH EMPHASIS ON NONDESTRUCTIVE EVALUATION OF MAN-MADE AND NATURAL OBJECTS.
(435) Dominique Lesselier (France) et al. (6 authors) (I)
- B4.O.2 FROM SCALAR 2D TO FULL VECTORIAL 3D NONLINEAR INVERSE SCATTERING TECHNIQUES
(748) Aria Abubakar (The Netherlands) et al. (2 authors) (I)
- B4.O.3 A NEWTON-TYPE RECONSTRUCTION ALGORITHM FOR A 434 MHZ MICROWAVE IMAGING
(865) Ann Franchois (Belgium) et al. (2 authors)
- B4.O.4 SHAPE RECONSTRUCTION OF 3D PERFECTLY CONDUCTING OBJECT
(899) Herve TORTEL (France) et al. (2 authors)
- B4.O.5 A STEP-WISE APPROACH TO INVERSE SCATTERING PROBLEMS
(1567) Ovidio M. Bucci (Italy) et al. (3 authors)
- B4.O.6 OPTIMAL ELECTROMAGNETIC MEASUREMENTS, TIME REVERSAL, AND FREQUENCY TUNING
(963) Margaret Cheney (United States of America) et al. (2 authors) (I)
- B4.O.7 APPLIED LINEAR AND NONLINEAR SCALAR INVERSE SCATTERING: A COMPARATIVE STUDY
(1694) René Marklein (Germany) et al. (5 authors) (I)
- B4.O.8 IMAGING THROUGH DIFFUSIVE MEDIUM BY PHOTON DENSITY WAVES
(724) Akira Ishimaru (United States of America) et al. (3 authors)
- B4.O.9 ELECTROMAGNETIC WAVE DIFFRACTION BY PERIODIC BOUNDARY BETWEEN TWO DIELECTRIC MEDIA: RECONSTRUCTION PROBLEM.
(1601) Jean Chandezon (France) et al. (3 authors)
- B4.O.10 TIME-REVERSAL RETROFOCUSING AND INVERSE SCATTERING
(1842) Mats Gustafsson (Sweden)

Poster session *Tuesday, August 20, 2002 - P1* *Room: Expo Foyer*

- B4.P.1 LOCALIZED DISTORTED BORN APPROXIMATION - ON-ROUTE TOWARDS LARGE SCALE INVERSE SCATTERING
(168) Timor Melamed (Israel)
- B4.P.2 MICROWAVE RECONSTRUCTION TECHNIQUE FOR PIECEWISE HOMOGENEOUS OBJECTS USING A BOUNDARY INTEGRAL EQUATION METHOD
(379) Liesbeth Vandamme (Belgium) et al. (3 authors)
- B4.P.3 TOMOGRAPHIC GROUND SURFACE IMAGING USING RADIO WAVES
(434) Zhipeng Wu (United Kingdom)
- B4.P.4 AN EXACTED UNDERGROUND IMAGING METHOD FROM THE INDUCED SECONDARY CURRENTS
(1161) Yiwei He (Japan) et al. (3 authors)

Commission B

URSI GA 2002 - Oral and Poster Sessions

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|-------------------|--|
| B4.P.5
(1242) | SENSING GEOMETRY AND FREQUENCY BAND EFFECTS ON TOMOGRAPHIC 2-D RESOLUTION IN THE FRESNEL ZONE
Rocco Pierri (Italy) et al. (3 authors) |
| B4.P.6
(1244) | FIELDS MEASUREMENT AND MODELING IN A 434 MHZ CIRCULAR SCANNER
Jean-Michel Geffrin (France) et al. (2 authors) |
| B4.P.7
(1248) | A LINEAR INVERSION MODEL FOR A DIRECTIONAL BOREHOLE RADAR
Koen Van Dongen (The Netherlands) et al. (3 authors) |
| B4.P.8
(1556) | MICROWAVE IMAGING OF HOMOGENEOUS OBJECTS BURIED UNDER A MODERATELY ROUGH AIR-SOIL INTERFACE
Ovidio M. Bucci (Italy) et al. (3 authors) |
| B4.P.9
(1696) | THREE-DIMENSIONAL PROFILE INVERSION OF PENETRABLE OBJECTS FROM TIME-DOMAIN DATA
Takashi Takenaka (Japan) et al. (3 authors) |
| B4.P.10
(1708) | CONSTRAINED AND PRECONDITIONED MULT-FREQUENCY ELECTROMAGNETIC INVERSION FOR THE DETECTION OF FEMALE BREAST TUMORS
Bert Jan Kooij (The Netherlands) et al. (2 authors) |
| B4.P.11
(1776) | RECONSTRUCTION OF INHOMOGENEOUS OBJECTS FROM MULTI-FREQUENCY REAL DATA
Pierre Sabouroux (France) et al. (3 authors) |
| B4.P.12
(1840) | IDENTIFICATION OF THE EQUIVALENT CURRENT DISTRIBUTION AT A RADOME FROM NEAR FIELD MEASUREMENTS
Mats Gustafsson (Sweden) et al. (3 authors) |
| B4.P.13
(2054) | TWO-DIMENSIONAL INVERSE SCATTERING ITERATIVE METHODS IN STRATIFIED MEDIA CONFIGURATIONS
Kamal Belkebir (France) et al. (2 authors) |
| B4.P.14
(2075) | IMPLEMENTATION OF FAST FOCUSING ALGORITHM FOR UWB STEPPED-FREQUENCY GPR SAR IMAGING
Bin Sai (The Netherlands) et al. (3 authors) |

B5

FAST METHODS FOR CEM (I,C,P)

E. Michielssen (USA) and J. Volakis (USA)

Oral session

Monday, August 19, 2002 - morning

Room: Aud. 2

- B5.O.1 LARGE SCALE COMPUTING IN ELECTROMAGNETICS WITH FAST INTEGRAL EQUATION SOLVERS
(424) Weng Cho Chew (United States of America) (I)
- B5.O.2 USING FAST FOURIER TRANSFORM (FFT) IN THE 3D MULTILEVEL FAST MULTIPOLE ALGORITHM (MLFMA)
(782) Jukka Sarvas (Finland) (I)
- B5.O.3 FAST INTEGRAL METHODS FOR VOLUMETRIC STRUCTURES
(1951) John Volakis (United States of America) et al. (4 authors) (I)
- B5.O.4 DOMAIN DECOMPOSITION AND NON-UNIFORM POLAR/SPHERICAL GRID INTERPOLATION APPROACH TO FAST FIELD EVALUATION
(1191) Amir Boag (Israel) et al. (3 authors) (I)
- B5.O.5 IMPROVED FAST MODELING OF SCATTERING FROM INHOMOGENEOUS LOSSY DIELECTRIC BODIES
(940) Balasubramaniam Shanker (United States of America) et al. (3 authors) (I)
- B5.O.6 ON THE USE OF PML TERMINATED WAVEGUIDES AS A FAST MEANS TO CALCULATE THE GREEN'S FUNCTIONS OF A 2D MICROSTRIP SUBSTRATE.
(24) Hendrik Rogier (Belgium)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- B5.P.1 A FEM FORMULATION FOR OPEN FIELD PROBLEMS BASED ON EDGE ELEMENTS AND AN EXPANSION IN CYLINDRICAL HARMONICS
(1277) Peter Allilomes (Greece) et al. (2 authors)
- B5.P.2 APPROXIMATION METHOD FOR INTEGRAL EQUATIONS IN DOMAIN WITH CURVILINEAR BOUNDARY
(1331) Alexander Samokhin (Russia) et al. (2 authors)
- B5.P.3 WAVELETS IN 2D AND 3D SCATTERING AND WAVE PROPAGATION PROBLEMS
(689) Alexandre Anioutine (Russia) et al. (2 authors)

B6 NUMERICAL METHODS FOR PDEs - ADAPTIVE FEEDBACK PROCESSES AND MULTIGRID TECHNIQUES (I,C,P)

Jin-Fa Lee (USA) and Magdalena Salazar-Palma (Spain)

Oral session

Monday, August 19, 2002 - afternoon

Room: Aud. 2

- B6.O.1 GRID REFINEMENT APPROACHES FOR THE FINITE DIFFERENCE TIME DOMAIN METHOD
(519) Robert Lee (United States of America) et al. (4 authors) (I)
- B6.O.2 IN-EXACT HELMHOLTZ SPLITTING WITH SCHWARZ METHODS FOR SOLVING TIME HARMONIC
(635) MAXWELL EQUATIONS
Jin-Fa Lee (United States of America) et al. (3 authors) (I)
- B6.O.3 A HIGHLY EFFICIENT HIGHER-ORDER HYBRID FINITE ELEMENT_BOUNDARY INTEGRAL
(195) METHOD FOR LARGE-SCALE SCATTERING ANALYSIS
Jian-Ming Jin (United States of America) et al. (2 authors) (I)
- B6.O.4 IMPROVEMENTS IN ADAPTIVE MESH REFINEMENT AND MULTILEVEL METHODS IN
(2241) HIGH-FREQUENCY ELECTROMAGNETICS
Zoltan J. Cendes (United States of America) (I)
- B6.O.5 HIERARCHICAL MULTILEVEL AND MULTIGRID PRECONDITIONERS FOR ROBUST FEM-BASED
(680) ELECTROMAGNETIC MODELING
Yu Zhu (United States of America) et al. (2 authors) (I)
- B6.O.6 MULTIGRID METHOD FOR LIGHTWAVE PROPAGATION IN TWO-DIMENSIONAL OPTICAL
(1216) WAVEGUIDE
Mitsuhiro Yokota (Japan) et al. (2 authors)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- B6.P.1 FREQUENCY PARAMETERIZATION TECHNIQUE APPLIED ON ELECTROMAGNETIC ANALYSIS OF
(1905) RADIATING STRUCTURES
Yacine ADANE (France) et al. (4 authors)

B7 ASYMPTOTIC AND HYBRID METHODS (I,C,P)
Prabhakar H. Pathak (USA) and Giuliano Manara (Italy)

Oral session *Wednesday, August 21, 2002 - morning* *Room: Aud. 2*

- B7.O.1 FLOQUET WAVE EXCITED INCREMENTAL FIELDS AT THE RIM OF PLANAR PERIODIC ARRAYS
(1118) Roberto Tiberio (Italy) et al. (3 authors) (I)
- B7.O.2 SPECTRAL DOMAIN RAY TRACKING: AN ALTERNATIVE RAY METHOD FOR OPEN-ENDED WAVEGUIDES AND CAVITIES ANALYSIS.
(1827) Elias RACHID (Lebanon) et al. (2 authors)
- B7.O.3 HYBRID RAY-MODE REPRESENTATIONS REVISITED
(150) Leopold Felsen (United States of America) (I)
- B7.O.4 HYBRIDIZATION OF NUMERICALLY RIGOROUS TECHNIQUES WITH ASYMPTOTIC METHODS VIA THE USE OF THE GENETIC ALGORITHM AND PRONY'S METHOD
(472) Raj Mittra (United States of America) (I)
- B7.O.5 HYBRID METHODS: A PROMISING DIRECTION?
(627) Robert Lee (United States of America) et al. (3 authors) (I)
- B7.O.6 A HYBRID MODE MATCHING - FINITE ELEMENTS TECHNIQUE FOR THE ANALYSIS OF INDUCTIVE FSSS WITH ARBITRARILY SHAPED APERTURES
(1612) Agostino Monorchio (Italy) et al. (3 authors) (I)
- B7.O.7 A MOM/FEM HYBRID ANALYSIS OF CIRCULARLY POLARIZED SLOT ELEMENTS WITH COMPLEX SHAPES
(1828) Takuichi Hirano (Japan) et al. (3 authors)

Poster session *Tuesday, August 20, 2002 - P1* *Room: Expo Foyer*

- B7.P.1 DESCRIPTION OF GAUSSIAN BEAMS PROPAGATION ON THE BASIS OF COMPLEX GEOMETRICAL OPTICS
(105) Roman Egorchenkov (Russia) et al. (2 authors)
- B7.P.2 TIME DOMAIN DIFFRACTED FIELD BY AN ANISOTROPIC IMPEDANCE HALF-PLANE: UAPO EXPRESSION
(780) Claudio Gennarelli (Italy) et al. (3 authors)
- B7.P.3 ANALYSIS AND DESIGN OF WIRE ANTENNAS NEAR A PERFECTLY CONDUCTING ELLIPTIC CONE
(836) Paul Vakouftsis (Greece) et al. (4 authors)
- B7.P.4 ANALYSIS OF CYLINDRICAL RECTANGULAR MICROSTRIP ANTENNA USING A NEW REPRESENTATION OF THE SPATIAL GREEN'S FUNCTION
(874) Alexander Svezhentsev (Belgium) et al. (2 authors)
- B7.P.5 NON-LINEAR PHENOMENA IN CATASTROPHE FOCUSINGS.
(1153) Andrey Kryukovsky (Russia) et al. (2 authors)
- B7.P.6 INVESTIGATION OF EIGEN - BACKWARD - AND LEAKY - WAVE MODES OF AN AXIALLY MAGNETIZED LOSSY CYLINDRICAL FERRITE SUBSTRATE
(1270) Stergios Diamandis (Greece) et al. (4 authors)

Commission B

URSI GA 2002 - Oral and Poster Sessions

- | | |
|--------|--|
| B7.P.7 | FIELD RADIATED BY A GAP FED INFINITE SLOT PRINTED BETWEEN TWO HOMOGENEOUS DIELECTRICS. |
| (1464) | Andrea Neto (Italy) et al. (2 authors) |
| B7.P.8 | ALGORITHMS OF THE OPTIMIZED FEED SYSTEM DESIGNED FOR MULTIBAND ANTENNA WITH THE AXIAL SYMMETRY REFLECTOR |
| (1595) | Marina Romanenko (Russia) |
| B7.P.9 | HIGH FREQUENCY CORRECTIONS TO PHYSICAL OPTICS FOR INTEGRATED DIELECTRIC LENS ANTENNAS |
| (1854) | Davide Pasqualini (Italy) et al. (2 authors) |

B8 DESIGN, ANALYSIS AND SYNTHESIS OF ANTENNA ARRAYS (I,C,P)

Stefano Maci (Italy) and Trevor S Bird (Australia)

Oral session

Friday, August 23, 2002 - afternoon

Room: Aud. 2

- B8.O.1 FREQUENCY AND TIME DOMAIN PERIODICITY _MATCHED FLOQUET WAVE DIFFRACTION THEORY FOR PLANAR TRUNCATED PHASED ARRAY GREEN_S FUNCTIONS: RECENT DEVELOPMENTS
(151) Leopold Felsen (United States of America) (I)
- B8.O.2 ANALYSIS OF FINITE ARRAYS OF WIDEBAND TAPERED SLOT ANTENNAS
(935) Daniel Schaubert (United States of America) et al. (2 authors) (I)
- B8.O.3 OPTIMAL SYNTHESIS OF SUM PATTERNS FOR FIXED GEOMETRY ARRAYS AND ARBITRARY UPPER BOUNDS
(1912) Ovidio M. Bucci (Italy) et al. (2 authors) (I)
- B8.O.4 MODAL ANALYSIS OF A COAXIAL TRAVELLING-WAVE SLOT ARRAY WITH INTERIOR PROBES
(984) Geoffrey James (Australia) et al. (4 authors) (I)
- B8.O.5 MULTISCALE ANALYSIS OF LARGE COMPLEX ARRAYS
(931) Giuseppe Vecchi (Italy) et al. (5 authors) (I)
- B8.O.6 A REVIEW OF RECENT DEVELOPMENTS IN THE APPLICATION OF COUPLED OSCILLATORS TO PHASED ARRAY ANTENNAS
(230) Ronald J. Pogorzelski (United States of America) (I)
- B8.O.7 THE DEVELOPMENT OF INFLATABLE ARRAY ANTENNAS
(234) John Huang (United States of America) (I)
- B8.O.8 THE GEODESIC SPHERE PHASED ARRAY ANTENNA FOR SATELLITE CONTROL AND COMMUNICATIONS
(1274) Boris Tomasic (United States of America) et al. (3 authors) (I)
- B8.O.9 A CLOSED EXPRESSION FOR THE MAXIMUM UNAMBIGUOUS ANGULAR SEGMENT OF NONUNIFORM LINEAR ARRAYS
(1500) Werner Wiesbeck (Germany) et al. (3 authors) (I)
- B8.O.10 MULTI-LAYER INTEGRATED FREQUENCY SELECTIVE SURFACES FOR PLANAR AND CONFORMAL CYLINDRICAL PHASED ARRAYS
(1578) Giampiero Gerini (The Netherlands) (I)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- B8.P.1 A MATCHING ALGORITHM FOR 4-ELEMENT CIRCULAR ANTENNA ARRAYS BASED ON THE EVEN-AND-ODD MODE (EOM) ANALYSIS SCHEME
(53) Caner Ozdemir (Turkey)
- B8.P.2 RC CHAOTIC OSCILLATORS
(65) Lev Kuzmin (Russia) et al. (2 authors)
- B8.P.3 EFFICIENT ANALYSIS OF DICHROIC PLATES FOR LARGE REFLECTOR ANTENNAS
(77) Maurizio Bozzi (Italy) et al. (2 authors)

B8.P.4 (157)	DESIGN OF A BROADBAND STACKED MICROSTRIP PATCH ANTENNA ARRAY Xiaowen XU (P. R. China) et al. (3 authors)
B8.P.5 (408)	A WAVEGUIDE - BASED ANTENNA ARRAY EXITED BY A SURFACE WAVE Gribovsky (Ukraine)
B8.P.6 (448)	A SUPERDIRECTIVE ARRAY USING VERY SMALL GENETIC ANTENNAS Edward Altshuler (United States of America) et al. (4 authors)
B8.P.7 (542)	COMPUTATIONAL AND EXPERIMENTAL STUDY ON THE LOCALIZATION OF IMPULSIVE NOISE SOURCE Akimasa Hirata (Japan) et al. (4 authors)
B8.P.8 (617)	APPLICATION OF THE FOURIER RELATION METHOD TO THE SPATIAL LIMITATION OF ANTENNA ARRAYS António M. E. S. Casimiro (Portugal) et al. (2 authors)
B8.P.9 (766)	DIFFRACTED GAUSSIAN BEAM ANALYSIS: A MODULAR APPROACH TO THE ANALYSIS OF QUASI-OPTICAL MULTI-REFLECTOR SYSTEMS Robert Donnan (England) et al. (5 authors)
B8.P.10 (767)	ORTHOSYNTHESIS : ON THE BEAMFORMING FROM A SET OF UNIFORM LINEAR ARRAYS BY THE ORTHOGONAL METHOD Heraklis Margaritis (Greece) et al. (4 authors)
B8.P.11 (849)	INFLUENCE OF A TRUNCATION OF A DIELECTRIC STRUCTURE ON THE MUTUAL COUPLING BETWEEN MICROSTRIP ANTENNAS Vladimir Volski (Belgium) et al. (2 authors)
B8.P.12 (889)	A COMPREHENSIVE INVESTIGATION OF THE DISPERSION AND RADIATION PROPERTIES OF MICROSTRIP LEAKY-WAVE ARRAYS Paolo Baccarelli (Italy) et al. (5 authors)
B8.P.13 (926)	MULTIBEAM PLANAR DISCRETE MILLIMETER-WAVE LENS FOR FIXED-FORMATION SATELLITES Stefania Romisch (United States of America) et al. (5 authors)
B8.P.14 (1006)	ANTENNA ARRAY SYNTHESIS BY COMBINING THE MEASURED ELEMENT PATTERNS AND THE ORTHOGONAL METHOD Zaharias Zaharis (Greece) et al. (3 authors)
B8.P.15 (1453)	A DESIGN METHOD FOR GENERATING A RECTANGULAR RADIATION PATTERN BY USING A PATTERN SYNTHESIS KOJI NAGASAWA (Japan) et al. (2 authors)
B8.P.16 (1472)	A DESIGN METHOD FOR ARRAY ANTENNAS TAKING INTO ACCOUNT OF MUTUAL COUPLING BETWEEN ELEMENTS ----- DIPOLE ARRAY ANTENNA ABOVE THE GROUND PLANE ----- Koichi Sakaguchi (Japan) et al. (2 authors)
B8.P.17 (1540)	A PARAMETER STUDY OF APERTURE COUPLED CPW-FED STACKED MICROSTRIP ANTENNAS Steven Mestdagh (Belgium) et al. (2 authors)
B8.P.18 (1841)	EFIE BASED MULTIMODE EQUIVALENT NETWORK FOR THE ANALYSIS OF PHASED ARRAYS INTEGRATED WITH FSS Stefania Monni (The Netherlands) et al. (3 authors)

Commission B

URSI GA 2002 - Oral and Poster Sessions

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|-------------------|---|
| B8.P.19
(1944) | COUPLED-OSCILLATOR PHASED ARRAY SYSTEMS FOR MILLIMETER WAVE APPLICATIONS
L. Wilson Pearson (United States of America) et al. (3 authors) |
| B8.P.20
(1964) | PHYSICAL PRECONDITIONING FOR NUMERICAL MODELING OF LARGE PERIODIC ARRAYS
Filippo Capolino (United States of America) et al. (2 authors) |
| B8.P.21
(2043) | STABILIZATION OF ACTIVE ANTENNA ARRAYS INCORPORATING TUNNEL DIODES FOR BEAM STEERING
Kai Liu (United States of America) et al. (4 authors) |
| B8.P.22
(2062) | ANALYSIS OF SLOT EXCITATION AND APERTURE ILLUMINATION OF LARGE PARALLEL PLATE SLOTTED WAVEGUIDE ARRAYS
Hisahiro Kai (Japan) et al. (3 authors) |

BCF ANTENNAS IN MOBILE COMMUNICATION SYSTEMS (I,C,P)

Makoto Ando (B, Japan) and Gert Frolund Pedersen (C)

Oral session

Friday, August 23, 2002 - morning

Room: Aud. 2

- BCF.O.1 (1742) ANTENNAS FOR MOBILE TERMINALS; SIZE, MEASUREMENTS AND PERFORMANCE
Gert Frølund Pedersen (Denmark) et al. (2 authors) (I)
- BCF.O.2 (997) EVALUATING MOBILE ANTENNA PERFORMANCE
Tokio Taga (Japan) (I)
- BCF.O.3 (1092) A MINIATURIZED DIELECTRIC CERAMICS RESONATOR ANTENNA FOR MOBILE HANDSET APPLICATION
Akira MIYATA (Japan) et al. (4 authors) (I)
- BCF.O.4 (685) ACCURATE MEASUREMENTS OF SMALL ANTENNAS AND RADIATION FROM MOBILE PHONES IN SMALL REVERBERATION CHAMBERS
Per-Simon Kildal (Sweden) et al. (2 authors) (I)
- BCF.O.5 (1363) RADIATION CHARACTERISTICS AND COMMUNICATION PERFORMANCE EVALUATION OF WATCH-TYPE WRISTPHONE EQUIPPED WITH LOOP ANTENNA
Fu-Ling Lin (R.O. China) et al. (3 authors)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- BCF.P.1 (914) A HELICAL INVERTED-F ANTENNA MOUNTED ON GROUNDPLANE-EDGE
Nobuhiro Kuga (Japan) et al. (4 authors)
- BCF.P.2 (975) HYBRID-RESONATOR ANTENNAS FOR BROADBAND WIRELESS APPLICATIONS
Karu Esselle (Australia) et al. (2 authors)
- BCF.P.3 (240) A FOLDED-LOOP ANTENNA FOR HANDSET TERMINAL AT 2.0 GHZ BAND
Takahiko Adachi (Japan) et al. (3 authors)
- BCF.P.4 (1173) THE EFFECTS OF THE GROUND AND THE USER'S BODY ON THE PERFORMANCE OF A MOBILE HANDSET ANTENNA
Zhou Wang (United Kingdom) et al. (2 authors)
- BCF.P.5 (1557) DESIGN AND REALIZATION OF A GSM MICROSTRIP ELEMENT WITH MINIMIZED RADIATION TO THE HUMAN HEAD
Yves Schols (Belgium) et al. (3 authors)
- BCF.P.6 (1272) 3-D FDTD DESIGN SIMULATION AND MEASUREMENT OF A 2.4 GHZ A 2.4 GHZ WLAN POLARIZATION-DIVERSITY PLANAR PRINTED ANTENNA
Liang-Chen Kuo (R.O. China) et al. (2 authors)
- BCF.P.7 (1402) ADAPTIVE CROSSED DIPOLE ANTENNAS
Randy Haupt (United States of America)
- BCF.P.8 (1835) OMNIDIRECTIONAL ANTENNA USING LINEAR ARRAYS OF PATCHES FOR 17GHZ BAND
José Basterrechea (Spain) et al. (2 authors)
- BCF.P.9 (1916) "COMPACT DIVERSITY ARRAY FOR WIRELESS APPLICATIONS"
Mohua Kar (United States of America) et al. (2 authors)

Commission B

URSI GA 2002 - Oral and Poster Sessions

BCF.P.10 (2226)	A COMPACT OMNI-DIRECTIONAL UHF ANTENNA FOR DTV BROADCASTING RECEPTION Chi-Fang Huang (R.O. China) et al. (2 authors)
BCF.P.11 (72)	INTEGRATED ANTENNAS FOR LINC SYSTEMS Shi-Chang Gao (United Kingdom) et al. (2 authors)
BCF.P.12 (980)	AN ANALOG AERIAL BEAMFORMING APPROACH TO TRAINED AND BLIND SMART ANTENNAS Takashi OHIRA (Japan)
BCF.P.13 (1181)	DESIGN OF INTEGRATED-OSCILLATOR ACTIVE MICROSTRIP ANTENNA FOR 2.45GHZ Raed Abd-Alhameed (United Kingdom) et al. (3 authors)
BCF.P.14 (1186)	TRANSMISSION IMPAIRMENT PARAMETERS IN MULTIPLE-BEAM SATELLITE COMMUNICATIONS SYSTEMS Amir Zaghloul (United States of America) et al. (2 authors)
BCF.P.15 (76)	A NOVEL DUAL-POLARIZED KU-BAND ANTENNA SUBARRAY Sergiy Martynyuk (Ukraine) et al. (3 authors)
BCF.P.16 (128)	ANALYSIS OF HANDHELD TERMINAL A MODIFIED FOLDED DIPOLE ANTENNA OF MOBILE COMMUNICATION□@FOR FDTD METHOD Haruo Kawakami (Japan)
BCF.P.17 (1061)	DESIGN OF A NOVEL DUAL-BAND MONOPOLE USING GENETIC ALGORITHMS Lóránt Farkas (Hungary) et al. (3 authors)
BCF.P.18 (1681)	A 900/1800 MHZ DUAL-BAND LTCC CHIP ANTENNA: 3-D NUMERICAL SIMULATION AND MEASUREMENT Yu-Jui Chang (R.O. China) et al. (2 authors)
BCF.P.19 (1860)	SINGLE ELEMENTS AND ARRAYS WITH A REDUCED GROUND PLANE SIZE Spencer Collins (Canada) et al. (2 authors)
BCF.P.20 (1328)	MULTIFUNCTIONAL CONFORMAL ANTENNAS FOR AUTOMOBILE APPLICATIONS Dejan Filipovic (United States of America) et al. (2 authors)

BD **TIME AND FREQUENCY 3D CIRCUIT MODELING (I,C,P)**
 Frank Olyslager (B, Belgium) and Andreas C. Cangellaris (D, USA)

Oral session *Thursday, August 22, 2002 - afternoon* *Room: Aud. 2*

- BD.O.1 REDUCED-ORDER MACROMODELING OF COMPLEX MULTIPOINT INTERCONNECTS
 (50) Stefano Grivet-Talocia (Italy) et al. (4 authors)
- BD.O.2 ROBUST GENERALIZED PEEC METHODOLOGY FOR FULL-WAVE ANALYSIS OF INTEGRATED
 CIRCUITS
 (678) Aosheng Rong (United States of America) et al. (2 authors) (I)
- BD.O.3 THE APPLICATION OF NETWORK-ORIENTED MODELS IN TIME- AND FREQUENCY-DOMAIN
 ELECTROMAGNETIC ANALYSIS OF CIRCUITS
 (884) Peter Russer (Germany) (I)
- BD.O.4 MODEL REDUCTION FOR VLSI PHYSICAL VERIFICATION
 (1236) N.P. Van der Meijs (The Netherlands) (I)
- BD.O.5 REDUCED ORDER MULTIPOINT MODELLING VIA LAGUERRE-SVD AND ITS APPLICATION TO
 FDTD
 (466) Daniel De Zutter (Belgium) et al. (4 authors) (I)
- BD.O.6 TIME DOMAIN MODELING OF SILICON INTEGRATED SPIRAL INDUCTORS IN RF IC DESIGN
 (1362) Valeria Palazzari (Italy) et al. (6 authors)

Poster session *Thursday, August 22, 2002 - P2* *Room: Expo Foyer*

- BD.P.1 DIFFERENT NUMERICAL TECHNIQUES FOR MODELING A MULTI-LAYERED MICROSTRIP PATCH
 ANTENNA
 (1174) Nalinda P. Somasiri (United Kingdom) et al. (3 authors)
- BD.P.2 A MODE MATCHING ANALYSIS OF AN OFFSET COAXIAL IRIS IN A CIRCULAR WAVEGUIDE AND
 ITS APPLICATIONS.
 (1303) Anastasios Orfanidis (Greece) et al. (3 authors)
- BD.P.3 FULL WAVE ELECTROMAGNETIC MODELLING OF COMPLICATED 3D PACKAGES AND
 INTERCONNECTIONS
 (1549) Mark Vrancken (Belgium) et al. (2 authors)
- BD.P.4 FULL-WAVE SIMULATION OF TRANSMISSION LINE STRUCTURES IN MONOLITHIC-INTEGRATED
 CIRCUITS
 (1713) Dzianis Lukashevich (Germany) et al. (2 authors)

BP ELECTROMAGNETIC WAVES IN COMPLEX ENVIRONMENTS

Nader Engheta (USA) and Ehud Heyman (Israel)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- BP.P.1
(103) ON DISPERSION AND POLARIZATION OF MODES IN A CHIRAL OPTICAL FIBRE
Sergey Demidov (Russia) et al. (2 authors)
- BP.P.2
(112) STUDY OF THE EM WAVE PROPAGATION CHARACTERISTICS IN 2-D CRYSTAL PBG STRUCTURE BY USING FDTD METHOD
Xiu long Bao (P. R. China) et al. (2 authors)
- BP.P.3
(131) CHARACTERISTICS OF UNEXPECTED RADIATION FROM BENT TRANSMISSION LINES
Sungkyu Lee (Japan) et al. (2 authors)
- BP.P.4
(147) NARROW-WAISTED GAUSSIAN BEAM ALGORITHMS AS EFFICIENT FORWARD SOLVERS IN COMPLEX PROPAGATION AND SCATTERING SCENARIOS: REFINEMENTS AND FURTHER CALIBRATIONS OF PREVIOUSLY OBTAINED PRELIMINARY ALGORITHMS
Vincenzo Galdi (United States of America) et al. (3 authors) (I)
- BP.P.5
(148) NARROW-WAISTED GAUSSIAN BEAM ALGORITHMS AS EFFICIENT SOLVERS FOR IMAGING IN COMPLEX PROPAGATION ENVIRONMENTS
Vincenzo Galdi (United States of America) et al. (6 authors) (I)
- BP.P.6
(164) MODAL PROPERTIES OF ASYMMETRIC PLANAR CHIRO-ANISOTROPIC OPTICAL WAVEGUIDES
Kirill Kushnarev (Russia) et al. (2 authors)
- BP.P.7
(412) THREE-DIMENSIONAL BIANISOTROPIC PERIODIC STRUCTURE FORMED BY PLANE ARRAYS OF METAL STRIP ELEMENTS.
Sergey Prosvirnin (Ukraine) et al. (2 authors)
- BP.P.8
(464) THE PROBLEMS OF LOCAL COUPLING BETWEEN ELECTRIC AND MAGNETIC POLARIZATIONS IN MICROWAVES: EXPERIMENTS AND THEORY
Arun Kumar Saha (Japan) et al. (3 authors) (I)
- BP.P.9
(465) CALCULATION OF MAGNETOELECTRIC OSCILLATING SPECTRUMS IN FERRITE "BIANISOTROPIC MOLECULES"
Eugene O. Kamenetskii (Israel) et al. (3 authors) (I)
- BP.P.10
(529) NUMERICAL SCATTERING SIMULATIONS FROM TIME-EVOLVING OCEAN-LIKE SURFACES AT L AND X BAND: DOPPLER ANALYSIS AND COMPARISONS TO A COMPOSITE SURFACE-TYPE ANALYTICAL MODEL
Jakov V. Toporkov (United States of America) et al. (3 authors) (I)
- BP.P.11
(543) SCATTERING PROBLEM RELATED TO THE SUBSURFACE RADAR
Hiroyoshi Ikuno (Japan) et al. (3 authors)
- BP.P.12
(601) THE AVERAGED BOUNDARY CONDITIONS FOR SYSTEMS OF PARALLEL CONDUCTORS IN SOME ANISOTROPIC AND CHIRAL MEDIA
Andrey Tyukhtin (Russia)
- BP.P.13
(648) SCATTERING OF A HERMITE-GAUSSIAN BEAM BY TWO CHIRAL CYLINDERS
Mitsuhiro Yokota (Japan) et al. (2 authors)
- BP.P.14
(658) FINITE-DIFFERENCE ANALYSIS OF A WAVEGUIDE SYSTEM
Akira Komiyama (Japan)

- BP.P.15
(734) WAVE PROPAGATION IN A MULTISCALE RANDOMLY INHOMOGENEOUS MEDIUM
Mikhail Tinin (Russia)
- BP.P.16
(737) MULTI-RESOLUTION HOMOGENIZATION (MRH) FOR SHORT PULSE FIELDS AND FAULT INTERROGATION IN COMPLEX LAMINATES
Vitaliy Lomakin (Israel) et al. (3 authors) (I)
- BP.P.17
(739) A MULTI-RESOLUTION HOMOGENIZATION (MRH) ANALYSIS FOR THE FIELDS NEAR THE INTERFACE BETWEEN COMPLEX LAMINATES
Vitaliy Lomakin (Israel) et al. (4 authors) (I)
- BP.P.18
(777) IDEAL AND GENERALIZED SOFT-AND-HARD BOUNDARIES
Ismo Lindell (Finland) (I)
- BP.P.19
(798) EIGENWAVES IN HARD SURFACE WAVEGUIDE FILLED WITH GYROTROPIC MEDIUM
Ari Viitanen (Finland) et al. (2 authors)
- BP.P.20
(860) A GAUSSIAN BEAM TRACKING METHOD FOR INDOOR PROPAGATION CHANNEL MODELING
Anca Flueraşu (France) et al. (2 authors)
- BP.P.21
(1042) DISSIPATION IN THICK FREQUENCY SELECTIVE STRUCTURES
Anders Karlsson (Sweden) et al. (3 authors) (I)
- BP.P.22
(1074) THEORETICAL STUDY OF WAVEGUIDING STRUCTURES CONTAINING BACKWARD-WAVE MATERIALS
Igor Nefedov (Finland) et al. (2 authors) (I)
- BP.P.23
(1088) MODELLING OF RANDOM MIXTURES WITH COMPLICATED INTERNAL GEOMETRY
Ari Sihvola (Finland) et al. (2 authors) (I)
- BP.P.24
(1438) LAGRANGIAN HOMOGENISATION THEORY OF QUANTUM-WELL SUPERLATTICES AND QUANTUM DOTS FOR NONLINEAR OPTICS
John Arnold (United Kingdom) (I)
- BP.P.25
(1499) ON SOLUTION OF PARABOLIC MARKOV'S EQUATION FOR SPACE-FREQUENCY COHERENCE FUNCTION
Vadim Gherm (United Kingdom) et al. (2 authors)
- BP.P.26
(1714) METHOD OF LINES SOLUTION OF INTEGRATED STRUCTURES INVOLVING COMPLEX DIELECTRICS
Vegni (Italy) et al. (3 authors) (I)
- BP.P.27
(1716) RADIATION AND SCATTERING FEATURES OF PLANAR PATCH ANTENNAS WITH COMPLEX SUBSTRATES
Vegni (Italy) et al. (3 authors) (I)
- BP.P.28
(1864) NUMERICAL ANALYSIS OF THE EFFECTIVE MEDIUM PARAMETERS OF A DENSE RANDOM MEDIUM CONTAINING CHIRAL SPHERES
Yukihisa Nanbu (Japan) et al. (4 authors)
- BP.P.29
(1878) CONTRA-DIRECTIONAL INTERACTION IN A NRD WAVEGUIDE COUPLER WITH A METAMATERIAL SLAB
Antonio Topa (Portugal) (I)

BP.P.30 (1935)	THE ROLE OF GEOMETRY OF INCLUSIONS IN FORMING METAMATERIALS WITH NEGATIVE PERMITTIVITY AND PERMEABILITY Nader Engheta (United States of America) et al. (3 authors) (I)
BP.P.31 (2039)	SHORT-PULSE FIELD REPRESENTATIONS FOR PERIODIC ARRAYS USING TIME DOMAIN FLOQUET WAVES Filippo Capolino (United States of America) et al. (2 authors) (I)
BP.P.32 (2079)	WAVE PROPAGATION IN LONGITUDINALLY SYMMETRIC METAMATERIALS THAT ARE ISOREFRACTIVE WITH FREE SPACE J. Scott Tyo (United States of America) (I)
BP.P.33 (2101)	NON-SPECULAR EFFECTS IN FRACTAL CANTOR GRATINGS Mario Lehman (Mexico) et al. (2 authors)
BP.P.34 (2102)	A METHOD TO OBTAIN KOCH FAMILY GRATINGS AND STUDY OF THE ELECTROMAGNETIC SCATTERING Mario Lehman (Mexico) et al. (2 authors)

Commission C - SIGNALS AND SYSTEMS

Chair: E. Bonek (Austria) Vice-chair: M. Akaike (Japan)

C1 SOFTWARE RECONFIGURABLE RADIO SYSTEMS (I)

R. Kohno (Japan)

Oral session

Monday, August 19, 2002 - morning

Room: 0.1 London

- C1.O.1 SECURITY ISSUES OF DOWNLOADING FOR SOFTWARE RECONFIGURABLE RADIO SYSTEMS
VERSUS USUAL INTERNET DOWNLOADING
(1805) Miodrag Mihaljevic (Japan) et al. (2 authors) (I)
- C1.O.2 SOFTWARE DEFINED RADIO; CURRENT STATE / FUTURE DIRECTIONS OF THE TECHNOLOGY
AND THE NEED FOR INTERNATIONAL COORDINATION ON REGULATION
(2216) Mark Cummings (United States of America) (I)
- C1.O.3 SCALABLE ARCHITECTURE FOR COMPUTATIONALLY INTENSIVE SOFTWARE RADIO SYSTEMS
(2269) Stephen Pearce (United States of America) et al. (2 authors) (I)
- C1.O.4 A SOLUTION FOR REGULATORY ISSUES WITH SDR
(2274) Nigel Jefferies (United Kingdom) et al. (3 authors) (I)
- C1.O.5 CHANNEL DIVERSITY IN MOBILE SOFTWARE RADIO RECEIVERS
(1718) Harald Schnepf (Germany) et al. (3 authors)

C2 ANTENNA ARRAY SIGNAL PROCESSING AND MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO)

Andreas F. Molisch (USA) and Mats Viberg (Sweden)

Oral session

Monday, August 19, 2002 - afternoon

Room: 0.1 London

- C2.O.1 NARROWBAND MIMO CHANNEL MODELING FOR LOS INDOOR SCENARIOS
(162) Kai Yu (Sweden) et al. (4 authors) (I)
- C2.O.2 REALISTIC MIMO SIMULATIONS BASED ON MULTIDIMENSIONAL CHANNEL-SOUNDING
(905) MEASUREMENTS
Giovanni Del Galdo (Germany) et al. (5 authors) (I)
- C2.O.3 RECENT RESULTS IN ARRAY PROCESSING AND PROPAGATION CHARACTERISATION FOR
(563) MIMOS
Laurent Schumacher (Denmark) et al. (3 authors) (I)
- C2.O.4 EXPERIMENTS ON ADAPTIVE ANTENNA ARRAY DIVERSITY RECEIVER/TRANSMITTER FOR
(1976) W-CDMA BTS APPLICATION
Hidekazu Taoka (Japan) et al. (4 authors) (I)
- C2.O.5 ITERATIVE EQUALIZER USING SOFT-DECODER FEEDBACK FOR MIMO SYSTEMS IN
(2059) FREQUENCY-SELECTIVE FADING
Maja Loncar (Austria) et al. (4 authors) (I)
- C2.O.6 LINK-SPECIFIC, PROPAGATION-BASED WIRELESS MIMO SYSTEM DEPLOYMENT
(2258) Ernst Bonek (Austria) (I)
- C2.O.7 ITERATIVE MAXIMUM LIKELIHOOD DECODING OF GENERALIZED SPACE-TIME BLOCK CODES
(530) Lee Swindlehurst (United States of America) (I)
- C2.O.8 SYSTEM-LEVEL PERFORMANCE EVALUATIONS OF SPATIO-TEMPORAL EQUALIZERS USING
(1283) TWO-DIMENSIONAL CHANNEL SOUNDING FIELD MEASUREMENT DATA
Tad Matsumoto (Japan) et al. (3 authors) (I)
- C2.O.9 ITERATIVE LEAST SQUARES DETECTION USING THE EM-ALGORITHM
(1129) Patrik Bohlin (Sweden)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- C2.P.1 DIRECTION OF ARRIVAL ESTIMATION VIA UNITARY TLS ESPRIT WITH STRUCTURE WEIGHTING
(86) Vladimir Vasilishin (Ukraine)
- C2.P.2 INFLUENCE OF COUPLING IN ANTENNA ARRAYS ON THE SAGE ALGORITHM
(508) Jo Verhaevert (Belgium) et al. (3 authors)
- C2.P.3 PERFORMANCE EVALUATION OF DOA ESTIMATION ALGORITHMS IN DIGITAL
(569) IMPLEMENTATION
Masashi Shinagawa (Japan) et al. (3 authors)
- C2.P.4 DOA ESTIMATION BY 'T'-TYPE ARRAY ANTENNA AND ITS EVALUATION
(575) Akimichi Hirota (Japan) et al. (4 authors)

C2.P.5 (616)	AN ALGEBRAIC APPROACH TO EIGENPROBLEMS TOWARD FAST DOA ESTIMATION Koichi Ichige (Japan) et al. (3 authors)
C2.P.6 (677)	MIMO CHANNEL CAPACITY: ELECTROMAGNETIC WAVE PERSPECTIVE Sergey Loyka (Canada)
C2.P.7 (709)	THE MVDR GUIDED CONSTANT MODULUS ADAPTIVE ARRAY (MVDR-GCMARY) Said El-Khamy (Egypt) et al. (3 authors)
C2.P.8 (746)	ESTIMATION OF THE DIRECTION OF ARRIVAL OF NARROW AND BROADBAND SIGNALS USING QUADRATURE MIRROR FILTERS Sathish Chandran (Malaysia)
C2.P.9 (769)	JOINING POWER CONTROL AND SMART ANTENNA USING KALMAN ALGORITHM IN CDMA COMMUNICATION SYSTEMS Mohammed Elmusrati (Finland) et al. (2 authors)
C2.P.10 (1026)	3-D AZIMUTH-ELEVATION-CARRIER ESTIMATION VIA VOLUME ARRAYS Ildar Urazghildiiev (Sweden) et al. (4 authors)
C2.P.11 (1103)	A SINGLE COEFFICIENT SPATIAL CORRELATION MODEL FOR MULTIPLE-INPUT MULTIPLE OUTPUT (MIMO) RADIO CHANNELS Allert Van Zelst (The Netherlands) et al. (2 authors)
C2.P.12 (1134)	AN EXPERIMENTAL BROADBAND 4X4 MIMO TEST-BED Bertrand Vandewiele (The Netherlands) et al. (2 authors)
C2.P.13 (1229)	SPATIAL PROCESSING WITH LENS ANTENNAS ARRAYS FOR DIRECTION-OF-ARRIVAL ESTIMATION Tuan Do-Hong (Germany) et al. (4 authors)
C2.P.14 (1560)	OPTIMAL CRITERION FOR ARRAY SIGNAL PROCESSING, USING CONSTRAINTS ON THE RADIATION PATTERN AMPLITUDE IN THE ANGULAR DIRECTIONS OF THE DESIRED SIGNAL Giuseppe Castaldi (The Netherlands) et al. (2 authors)

C3

BLIND SIGNAL DETECTION (I,C)

Visa Koivunen (Finland)

Oral session

Tuesday, August 20, 2002 - afternoon

Room: 0.1 London

- | | |
|--------|---|
| C3.O.1 | BLIND INTERFERENCE SUPPRESSION FOR DS-CDMA SYSTEMS USING SEMI-BLIND TECHNIQUES |
| (717) | Ryan Pacheco (Canada) et al. (2 authors) (I) |
| C3.O.2 | RECURSIVE ESTIMATION OF NOISE STATISTICS IN KALMAN FILTER BASED MIMO EQUALIZATION |
| (1067) | Mihai Enescu (Finland) et al. (3 authors) |
| C3.O.3 | CONVERGENCE OF AN SEMI-BLIND LS-ALGORITHM IN THE UMTS FDD UPLINK |
| (1562) | Christian Pommer (Austria) |
| C3.O.4 | SEMI-BLIND SEPARATION AND EQUALIZATION OF COCHANNEL SIGNALS IN AD-HOC NETWORKS |
| (603) | Antonio Trindade (The Netherlands) et al. (2 authors) (I) |
| C3.O.5 | CYCLIC MINIMUM VARIANCE DETECTION OF MULTIRATE DS-CDMA IN MULTIPATH FADING CHANNELS |
| (7) | Mostafa El-Khamy (Egypt) et al. (3 authors) |

C4i RECENT ADVANCES IN TELECOMMUNICATION SYSTEMS (I,C,P)

P.H. Wittke (Canada)

Oral session

Thursday, August 22, 2002 - afternoon

Room: 0.1 London

- | | |
|-------------------|--|
| C4i.O.1
(391) | RECENT TRENDS IN TOMOGRAPHY FOR LARGE SCALE TELECOMMUNICATIONS NETWORKS
Alfred Hero (United States of America) et al. (2 authors) (I) |
| C4i.O.2
(1526) | COMBINED MODULATION FORMATS FOR IP OVER WDM NETWORKS SUPPORTED BY GMPLS
Sulur (The Netherlands) et al. (4 authors) |
| C4i.O.3
(585) | ADVANCED TECHNIQUES AND TECHNOLOGIES OF TRANSMISSION AND ROUTING FOR
ULTRA-LONG HAUL AND ULTRA-BROADBAND TELECOMMUNICATION NETWORKS
Le N. Binh (Australia) |
| C4i.O.4
(1354) | BLOCK TURBO CODES FOR HIPERLAN/2 SYSTEMS: PERFORMANCE ANALYSIS
Nadine Chapalain (France) et al. (4 authors) (I) |
| C4i.O.5
(1025) | TURBO CODES FOR ULTRA WIDE BAND CHANNELS
Ranjan Bose (India) et al. (3 authors) |

C4ii RECENT ADVANCES IN TELECOMMUNICATION SYSTEMS (I,C,P)

P.H. Wittke (Canada)

Oral session

Friday, August 23, 2002 - morning

Room: 0.1 London

C4ii.O.1 TIME-SERIES ANALYSIS OF DROPPED CALL RATES IN CELLULAR PHONE SYSTEMS
(1409) David J. Thomson (Canada) (I)

C4ii.O.2 SMART ANTENNAS TECHNOLOGY FOR FUTURE WIRELESS COMMUNICATION SYSTEMS
(642) Gilles Y. Delisle (Canada) et al. (2 authors) (I)

C4ii.O.3 BROADBAND PACKET WIRELESS ACCESS AND ITS PERFORMANCE
(1671) Sadayuki Abeta (Japan) et al. (3 authors) (I)

C4ii.O.4 RADIO LINK PERFORMANCE OF HIGH-SPEED PACKET TRANSMISSION IN HSDPA
(1974) Nobuhiko Miki (Japan) et al. (4 authors)

C4ii.O.5 ULTRA WIDEBAND TIME-DOMAIN COMMUNICATION IN A MULTIPATH CHANNEL USING A
HIERARCHICAL SCHEME
(133) Il-Suek Koh (United States of America) et al. (2 authors) (I)

C4ii.O.6 A MOBILE CONNECTION FOR 4G NETWORKS USING MPLS
(606) Johan Theunis (Belgium) et al. (6 authors)

CAF BROADBAND ACCESS SYSTEMS IN WIRELESS COMMUNICATION (I,C)

H. Ogawa (Japan) and Torbjörn Tanem (Norway)

Oral session

Tuesday, August 20, 2002 - morning

Room: 0.1 London

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| CAF.O.1
(492) | PROPAGATION STUDIES FOR ENHANCED BROADBAND WIRELESS ACCESS
Ken Craig (United Kingdom) et al. (3 authors) (I) |
| CAF.O.2
(716) | HIGH GAIN AND HIGH EFFICIENCY PLANAR ANTENNAS FOR VARIOUS WIRELESS SYSTEMS IN
MILLIMETER WAVE BANDS
Makoto Ando (Japan) et al. (2 authors) (I) |
| CAF.O.3
(1296) | OVERVIEW AND FUTURE TREND OF THE JAPANESE WIRELESS ACCESS SYSTEMS
Shozo Komaki (Japan) et al. (4 authors) (I) |
| CAF.O.4
(1544) | INTEGRATING OPTICAL AND WIRELESS ACCESS NETWORKS FOR FLEXIBLE BROADBAND ACCESS
DELIVERY _ THE EURESCOM FREEHANDS PROJECT
Adam Kapovits (Germany) (I) |
| CAF.O.5
(2087) | FIXED BROADBAND WIRELESS ACCESS TRIALS AT 40 GHZ: RESULTS, CONCLUSIONS AND
FUTURE POTENTIAL.
Agne Nordbotten (Norway) (I) |
| CAF.O.6
(2267) | AN INTRODUCTION TO BROADBAND WIRELESS ACCESS SYSTEMS AND THE KEY FACTORS FOR
THEIR SUCCESSFUL IMPLEMENTATION
Mats Öhman (Sweden) (I) |
| CAF.O.7
(928) | A STOCHASTIC REPRESENTATION OF THE URBAN PROPAGATION CHANNEL IN FIXED WIRELESS
ACCESS SYSTEMS
Leonidas Ivrisimtzis (United Kingdom) et al. (3 authors) |
| CAF.O.8
(1861) | BROADBAND RADIO: A VISION ON 4G
Erik Fledderus (The Netherlands) |
| CAF.O.9
(2061) | LINEARITY AND EFFICIENCY ISSUES IN RF POWER AMPLIFIERS FOR FUTURE BROADBAND
WIRELESS ACCESS SYSTEMS
Mairtin O'Droma (Ireland) et al. (3 authors) |
| CAF.O.10
(1404) | LOW-COST BROADBAND WIRELESS SYSTEM
James Chan (United States of America) |

CBF WAVE PROPAGATION MODELING FOR MOBILE COMMUNICATION SYSTEMS (I)

Werner Wiesbeck (Germany) and Henry L Bertoni (USA)

Oral session

Wednesday, August 21, 2002 - afternoon

Room: 0.1 London

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|-------------------|--|
| CBF.O.1
(1231) | WAVE PROPAGATION MODELLING FOR INTER-VEHICLE COMMUNICATIONS
Juergen Maurer (Germany) et al. (3 authors) (I) |
| CBF.O.2
(1261) | ADVANCED RAY-OPTICAL WAVE PROPAGATION MODELLING FOR URBAN AND INDOOR SCENARIOS
Friedrich Landstorfer (Germany) et al. (2 authors) (I) |
| CBF.O.3
(1322) | A TIME-DOMAIN TECHNIQUE FOR FADING DEPTH CHARACTERISATION IN WIDEBAND MOBILE COMMUNICATIONS SYSTEMS
Filipe D. Cardoso (Portugal) et al. (2 authors) (I) |
| CBF.O.4
(1678) | SIGNAL DISTRIBUTION IN THE ANGLE-OF-ARRIVAL AND DELAY DOMAINS AND DOPPLER SPREAD FOR VARIOUS OUTDOOR COMMUNICATION LINKS
Nathan Blaunstein (Israel) (I) |
| CBF.O.5
(565) | STATISTICAL DISTRIBUTIONS IN MOBILE COMMUNICATIONS USING MULTIPLE SCATTERING
Jørgen Bach Andersen (Denmark) (I) |
| CBF.O.6
(1407) | DEFINING AND COMPUTING THE DIFFUSE SCATTERING COEFFICIENT FOR BUILDING SURFACES
Pongthiti Pongsilamanee (United States of America) et al. (3 authors) (I) |
| CBF.O.7
(1734) | ANALYSIS AND SIMULATION OF THE DIFFUSE SCATTERING PHENOMENON IN URBAN ENVIRONMENT
Vittorio Degli-Esposti (Italy) et al. (8 authors) (I) |

CF

ADAPTION TO CHANGING RADIO CHANNEL (I,C)

Robert Bultitude (C, Canada) and Yashio Karasawa (F, Japan)

Oral session

Thursday, August 22, 2002 - morning

Room: 0.1 London

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| CF.O.1
(426) | REAL TIME CHARACTERISATION OF THE MOBILE MULTIPATH CHANNEL
Paul Teal (New Zealand) (I) |
| CF.O.2
(651) | DOWNLINK WEIGHT CONTROL IN TDD/SDMA BASED ON PREDICTION OF RADIO CHANNEL CHANGES
Yasutaka Ogawa (Japan) et al. (2 authors) (I) |
| CF.O.3
(2119) | DEVELOPMENT OF A MODEL FOR REALISTIC PORTRAYAL OF RANDOM TIME VARIATIONS ON MOBILE RADIO CHANNELS
Robert Bultitude (Canada) et al. (5 authors) (I) |
| CF.O.4
(2109) | ON BOARD RESOURCE SHARING IN FUTURE SATELLITE-BASED TV OR TLC SYSTEMS UTILIZING KA FREQUENCY BANDS
Aldo Paraboni (Italy) (I) |
| CF.O.5
(1297) | TIME-SERIES OF ATTENUATION ON EHF AND SHF FIXED RADIO LINKS DERIVED FROM METEOROLOGICAL FORECAST AND RADAR DATA
Andrew Page (United Kingdom) et al. (3 authors) (I) |
| CF.O.6
(1122) | DYNAMICAL SPATIAL LOG-NORMAL SHADOWING MODELS FOR MOBILE COMMUNICATIONS
Charalambos Charalambous D. (Canada) et al. (2 authors) (I) |
| CF.O.7
(483) | SOFTWARE ANTENNA WITH ALGORITHM DIVERSITY
Yoshio Karasawa (Japan) (I) |
| CF.O.8
(1968) | POLARIZATION CHARACTERISTICS OF INSTANTANEOUS CORRELATION (COHERENCE) BANDWIDTH IN AN INDOOR ENVIRONMENT AT 5.2 GHZ
Naoki KITA (Japan) et al. (6 authors) |
| CF.O.9
(561) | APPLICATION OF ANT COLONY OPTIMISATION ALGORITHM ON THE RECURSIVE PROPAGATION MODEL FOR URBAN MICROCELLS
Pavel Pechac (Czech Republic) |

CFA CHANNEL SOUNDING IN MOBILE COMMUNICATION SYSTEMS (I,C)

Reiner S Thomä (C, Germany) and Simon Saunders (F, UK)

Oral session

Friday, August 23, 2002 - afternoon

Room: 0.1 London

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|-------------------|---|
| CFA.O.1
(1403) | MIMO CHANNEL SOUNDING AND DOUBLE-DIRECTIONAL MODELLING
Reiner Thomä (Germany) et al. (6 authors) (I) |
| CFA.O.2
(471) | MEASUREMENT AND MODELING OF THE MIMO WIRELESS CHANNEL
Jon Wallace (United States of America) et al. (3 authors) (I) |
| CFA.O.3
(1012) | A METHOD FOR SYNCHRONISING TRANSMITTER AND RECEIVER ANTENNA SWITCHING WHEN PERFORMING DUAL ARRAY MEASUREMENTS
Per Hjalmar Lehne (Norway) et al. (4 authors) (I) |
| CFA.O.4
(2181) | A NOVEL ARCHITECTURE FOR A FLEXIBLE, INTEGRATED WIDEBAND VECTOR CHANNEL SOUNDER FOR MIMO-SYSTEM INVESTIGATION
Ernst Zollinger (Switzerland) (I) |
| CFA.O.5
(811) | CHIRP WAVEFORMS FOR MULTIPLE ANTENNA CHANNEL SOUNDERS
Sana Salous (United Kingdom) (I) |
| CFA.O.6
(2127) | HIGH-RESOLUTION BIDIRECTION ESTIMATION BASED ON THE SAGE ALGORITHM: EXPERIENCE GATHERED FROM FIELD EXPERIMENTS
Bernard Fleury (Denmark) et al. (5 authors) (I) |
| CFA.O.7
(1522) | A GRADIENT BASED METHOD FOR MAXIMUM LIKELIHOOD CHANNEL PARAMETER ESTIMATION FROM MULTIDIMENSIONAL CHANNEL SOUNDING MEASUREMENTS
Andreas Richter (Germany) et al. (3 authors) (I) |
| CFA.O.8
(2071) | EXPERIMENTAL CHARACTERISATION OF MIMO PROPAGATION CHANNELS
Pertti Vainikainen (Finland) et al. (3 authors) (I) |
| CFA.O.9
(1503) | CHARACTERISATION OF THE FREQUENCY SENSITIVITY OF THE SPATIAL-TEMPORAL CHARACTERISTICS OF UMTS FDD BEARERS
Mark Beach (United Kingdom) et al. (6 authors) (I) |
| CFA.O.10
(612) | MACROCELL MIMO CHANNEL MEASUREMENT AND MODELING
Ingo Gaspard (Germany) (I) |

CFAB

SUBSURFACE REMOTE SENSING AND ITS APPLICATIONS (I)

Jürgen Sachs (C, Germany) and David Noon (F, Australia)

Oral session

Wednesday, August 21, 2002 - morning

Room: 0.1 London

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|--------------------|--|
| CFAB.O.1
(1234) | 3D IMAGING OF SHALLOW SUBSURFACE OBJECTS USING GROUND PENETRATING RADAR
Egil Eide (Norway) (I) |
| CFAB.O.2
(419) | GPR ANTENNA DEVELOPMENT IN IRCTR
L. P. Ligthart (The Netherlands) et al. (5 authors) (I) |
| CFAB.O.3
(686) | POLARIMETRIC DETECTION OF BURIED OBJECTS BY FM-CW RADAR
Yoshio Yamaguchi (Japan) et al. (3 authors) (I) |
| CFAB.O.4
(1120) | THROUGH-WALL IMAGING USING REAL-APERTURE RADAR
Ralph Benjamin (United Kingdom) et al. (4 authors) (I) |
| CFAB.O.5
(381) | APPLICATION OF INVERSE SCATTERING METHODS TO THE MATERIAL CHARACTERIZATION OF
SUBSURFACE OBJECTS
Neil Budko (The Netherlands) et al. (2 authors) (I) |
| CFAB.O.6
(1157) | SHAPE RECONSTRUCTION OF STRONG SCATTERERS BY A LINEAR DISTRIBUTIONAL MODEL
Rocco Pierri (Italy) et al. (2 authors) (I) |
| CFAB.O.7
(22) | QUADRUPOLE TERMS IN MAGNETIC SINGULARITY IDENTIFICATION
Carl E. Baum (United States of America) (I) |

CP

GENERAL POSTER SESSION

Sigfrido Leschiutta (Italy)

- CP.P.1 (26) DESIGN OF A 950-MHZ CMOS INTEGRATED IMAGE REJECT FRONT-END RECEIVER
Ahmed Moneim (Egypt) et al. (4 authors)
- CP.P.2 (123) VOICED SPEECH SYNTHESIS USING PITCH ASYNCHRONOUS CODE EXCITED LINEAR FILTERS FOR THE GLOTTAL SOURCE
Arun Kumar (India) et al. (3 authors)
- CP.P.3 (174) EFFICIENT SPECTRUM MANAGEMENT BY UTILIZING LOW PHASE NOISE COMPONENTS, CIRCUITS AND PROPER DRIVE LEVELS IN DIFFERENT STAGES OF MILLIMETERWAVE TRANSCEIVER
Rabindranath Bera (India) et al. (3 authors)
- CP.P.4 (397) REACTIVELY CONTROLLED ADAPTIVE ARRAYS-A KEY TECHNOLOGY FOR ACHIEVING THE WIRELESS AD-HOC COMMUNITY NETWORKS
Blagovest Shishkov (Japan) et al. (3 authors) (I)
- CP.P.5 (459) PREDICTION OF WIDE-BAND PARAMETERS OF MOBILE PROPAGATION CHANNEL
Martin Klepal (Czech Republic) et al. (2 authors)
- CP.P.6 (578) TELEVISION AS MEANS OF TELEMEDICINE
Zenon Hrytskiv (Ukraine) et al. (2 authors)
- CP.P.7 (586) PERFORMANCE OF DISTRIBUTED ANTENNAS FOR W-CDMA
Vasileios Nikolopoulos (United Kingdom) et al. (2 authors)
- CP.P.8 (615) MONTE-CARLO SIMULATION OF SURFACE CLUTTER IN GROUND PENETRATING RADARS
Alexander Yarovoy (The Netherlands) et al. (4 authors)
- CP.P.9 (659) THE PROGRESS OF RESEARCH ON SIGNALS AND SYSTEMS IN CHINA OF YEAR 1998-2001
WANG Zhihua (P. R. China) et al. (2 authors)
- CP.P.10 (704) UTRAN RESOURCE PLANNING BASED ON A PTAS USING A COMPLEX PROFIT FUNCTION
Lóránt Farkas (Hungary) et al. (2 authors)
- CP.P.11 (712) MINIMUM ENTROPY-BASED FUZZY EDGE DETECTION
Said El-Khamy (Egypt) et al. (3 authors)
- CP.P.12 (840) APPLICATION OF FAN-BEAM ANTENNAS FOR 60 GHZ INDOOR WIRELESS COMMUNICATION
Peter Smulders (The Netherlands)
- CP.P.13 (981) A FREQUENCY-INVARIANT ARRAY ANTENNA FED BY LOG PERIODIC DIPOLE ANTENNAS
YOSHIHIDE YAMADA (Japan) et al. (2 authors)
- CP.P.14 (1139) BROADBAND MEASUREMENT ANALYSIS OF INDOOR SPACE-TIME CHANNELS
Guido Dolmans (The Netherlands) et al. (2 authors)
- CP.P.15 (1159) COMPARISON OF DIFFERENT IMPLEMENTATIONS OF THE FRESNEL PO SCATTERING MODELS
Emmanuel Van Lil (Belgium) et al. (5 authors)
- CP.P.16 (1275) DESIGN AND DEVELOPMENT OF AN ACTIVE PRINTED CYLINDRICAL ANTENNA ARRAY FOR RADAR APPLICATIONS
Christos Koukourlis (Greece) et al. (10 authors)

CP.P.17 (1276)	A 25-35 GHZ KA-BAND PLANAR ANTIPODAL LINEARLY-TAPERED SLOT ANTENNA (AL TSA) Meng-Chung Tsai (R.O. China) et al. (3 authors)
CP.P.18 (1333)	DBF ANTENNA SYSTEM FOR HAPS(HIGH ALTITUDE PLATFORM STATION) Bon-Jun KU (Korea) et al. (3 authors)
CP.P.19 (1393)	MICROCELL COVERAGE AND DELAY SPREAD PREDICTION USING WAVEGUIDE THEORY Dana Porrat (United States of America) et al. (2 authors)
CP.P.20 (1421)	VARBERG RADIO IN GRIMETON, SWEDEN, WITH ITS VLF ALEXANDERSON ALTERNATOR _ ON THE UNESCO WORLD HERITAGE LIST? Carl Walde (Sweden)
CP.P.21 (1580)	REAL-TIME ULTRA-WIDEBAND CHANNEL SOUNDER Juergen Sachs (Germany) et al. (6 authors) (I)
CP.P.22 (1658)	MPEG-4 VIDEO TRANSMISSION OVER TETRA MOBILE CHANNELS Yoong Choon CHANG (Malaysia) et al. (3 authors)
CP.P.23 (1679)	0.5NS ULTRA TIME DELAY RESOLUTION FOR WIRELESS MOBILE COMMUNICATIONS Tsutomu Takeuchi (Japan)
CP.P.24 (1761)	JOINT BLIND EQUALIZATION AND BLIND ESTIMATION OF EQUALIZER PERFORMANCE João-Batista Destro-Filho (Brazil) (I)
CP.P.25 (1785)	MEASURING THE ELECTRIC PROPERTIES OF SUB-SURFACE MATERIALS WITH MUTUAL IMPEDANCE (MI) PROBES Roland Trautner (The Netherlands) et al. (3 authors)
CP.P.26 (1831)	WIDEBAND CHARACTERISATION OF THE DISPERSIVE EFFECTS ON ISOLATED MATURE TREES FOR 2-GHZ BAND URBAN MICROCELLS Rafael F. S. Caldeirinha (Portugal) et al. (2 authors)
CP.P.27 (1846)	RADIO-SIGNAL PROCESSING IN REAL TIME BY MAGNETIC MEDIA Anatoly Pogorily (Ukraine) et al. (4 authors)
CP.P.28 (1879)	ANTENNA MULTIPLEXING & TIME ALIGNMENT FOR MIMO CHANNEL SOUNDING Gerd Sommerkorn (Germany) et al. (4 authors)
CP.P.29 (1880)	OPTIMAL NONLINEAR FILTRATION OF NONGAUSSIAN SIGNALS IN THE PRESENCE OF COLORED NOISE ONLY Viacheslav Potapov (Russia)
CP.P.30 (1931)	ANALYTICAL AND NUMERICAL MODELING OF AN ACOUSTO-ELECTROMAGNETIC SYSTEM FOR BURIED OBJECT DETECTION Kamal Sarabandi (United States of America) et al. (2 authors)
CP.P.31 (700)	DESIGN & IMPLEMENTATION OF A REVERSE TRAFFIC CHANNEL FOR CDMA SYSTEM Shahira Abd El-khalik Mohamed (Egypt)
CP.P.32 (608)	AN S-PIC RECEIVER TO MITIGATE MAI IN A MC-DS/CDMA SYSTEM Marco Michellini (Italy) et al. (3 authors)
CP.P.33 (2158)	BLIND MIMO IDENTIFICATION FOR SPARSE CHANNELS Ivan Bradaric (United States of America) et al. (2 authors) (I)

Commission D - ELECTRONICS AND PHOTONICS

Chair: A. Seeds (UK) Vice-chair: P. Russer (Germany)

D1 RADIO OVER FIBER TECHNOLOGIES (C,P)

T. Berceci (Hungary) and H. Ogawa (Japan)

Oral session

Monday, August 19, 2002 - afternoon

Room: 2.9/2.10

D1.O.1 HIGH CAPACITY OPTICAL FIBRE BACKBONE NETWORKS FOR MILLIMETRE-WAVE FIBRE-RADIO SYSTEMS

(1339) Thas Ampalavanapillai Nirmalathas (Australia) et al. (5 authors) (I)

D1.O.2 60 GHZ-MILLIMETRE-WAVE GENERATION AND BEAMFORMING IN HYBRID FIBRE-RADIO SYSTEMS FOR BROADBAND WIRELESS ACCESS

(1545) Gerd Grosskopf (Germany) et al. (9 authors)

D1.O.3 MICROCHIP LASER RIN SUPPRESSION FOR FIBER RADIO APPLICATIONS

(1848) Mark Csörnyei (Hungary) et al. (4 authors)

D1.O.4 POLYMER OPTICAL FIBRE NETWORK FOR FEEDING WIRELESS LAN ANTENNA STATIONS

(1833) Ton Koonen (The Netherlands) et al. (6 authors)

D1.O.5 A COMPARISON OF DIFFERENT RADIO OVER FIBRE SYSTEM CONCEPTS WITH REGARD TO APPLICATIONS IN MOBILE INTERNET AND MULTIMEDIA ACCESS

(1726) Lech Smoczynski (Poland) et al. (2 authors)

D1.O.6 ELECTROABSORPTION TRANSCEIVER (EAT) FOR RADIO-OVER-FIBER APPLICATIONS

(2052) Andreas Stöhr (Germany) et al. (4 authors)

D1.O.7 SEMICONDUCTOR OPTICAL AMPLIFIERS IN FIBRE RADIO NETWORKS

(800) Eszter Udvary (Hungary)

D1.O.8 ALL OPTICAL SIGNAL PROCESSING FOR CONVERSION OF MICROWAVE SUBCARRIERS OF BPSK AND QPSK DIGITAL SIGNALS

(1295) Yannis Le Guennec (France) et al. (3 authors)

D1.O.9 RADIO-OVER-FIBER ORIENTED PREDISTORTION CIRCUITS FOR SIMULTANEOUS II AND III ORDER DISTORTION REDUCTION

(1366) Luca Roselli (Italy) et al. (6 authors)

D1.O.10 OPTOELECTRONIC MODELING OF HIGH SPEED MODULATED OPTICALLY CONTROLLED GAAS MICROWAVE SWITCHES

(1886) Charlotte Canseliet (France) et al. (6 authors)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

D1.P.1 INITIAL PULSE MODULATION METHOD FOR SBS COUNTERACTING IN LONG DISTANCE OPTICAL FIBER CATV LINK

(1723) Marek Jaworski (Poland) et al. (2 authors)

D2

FEMTOSECOND TERAHERTZ TECHNOLOGY (C,P)

Hiromas ITO (Japan) and Osamu WADA (Japan)

Oral session

Tuesday, August 20, 2002 - afternoon

Room: 2.9/2.10

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| D2.O.1
(1495) | ULTRAFAST FREQUENCY SHIFTING BY ABSORPTION SATURATION OF QUANTUM-WELL EXCITONS IN A PHOTONIC-BAND STRUCTURE
Kensuke Ogawa (Japan) (I) |
| D2.O.2
(1452) | INJECTION SEEDED TERAHERTZ-WAVE PARAMETRIC GENERATORS
Kodo Kawase (Japan) et al. (3 authors) (I) |
| D2.O.3
(1466) | AN APPLICATION OF GENETIC ALGORITHM TO OPTIMIZE THE HIGH FREQUENCY PERFORMANCE IN GAAS QUANTUM WELLS
Subir Kumar Sarkar (India) et al. (3 authors) |
| D2.O.4
(2221) | LOW-VOLTAGE THZ STIMULATED EMISSION OF STRESSED P-GE
Igor Altukhov (Russia) et al. (6 authors) |
| D2.O.5
(2047) | SUPERRADIANT SEMICONDUCTOR HETEROLASERS: FUNDAMENTALS AND PERSPECTIVES
Vladimir Kocharovsky (Russia) et al. (4 authors) |

D3

OPTICAL-MICROWAVE INTERACTIONS

Le Nguyen Binh (Australia)

Oral session

Wednesday, August 21, 2002 - morning

Room: 2.9/2.10

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| D3.O.1
(1208) | PHOTONIC SPECTRUM ANALYSIS OF WIDEBAND RF PULSED SIGNALS
Alexis F. S. Tinoco (Brazil) et al. (3 authors) |
| D3.O.2
(544) | TWO-DIMENSIONAL PHOTONIC CRYSTAL OPTICAL WAVEGUIDES AND THEIR APPLICATION TO OPTICAL DEVICES
Yoshihiro Naka (Japan) et al. (2 authors) |
| D3.O.3
(1517) | EVALUATION OF THE OPTICAL CHARACTERISTICS OF PHOTONIC BAND GAP STRUCTURES BY THE METHOD OF LINE BIDIRECTIONAL BEAM PROPAGATION METHOD
Antonella D'Orazio (Italy) et al. (5 authors) |
| D3.O.4
(591) | PHYSICAL PRINCIPLES OF THE MICROWAVE FIELD DETECTION IN THE SEMICONDUCTOR STRUCTURES BY OPTICAL RADIATION.
Maxim Chernikov (Russia) et al. (2 authors) |

D4 NANOTECHNOLOGIC PROCESSES FOR ADVANCED OPTIC AND ELECTRONIC SYSTEMS (C,P)

Pierre-Noël Favennec (France) and Frédérique de Fornel (France)

Oral session

Thursday, August 22, 2002 - morning

Room: 2.9/2.10

- | | |
|-------------------|--|
| D4.O.1
(64) | A NOVEL MICROWAVE EXCITED APPROACH TO ANTENNA EFFECT SIMULATION FOR SUB-0.1UM VLSI DEVICE PROCESS
Jan-Wen Lee (R.O. China) et al. (4 authors) |
| D4.O.2
(1210) | BROADBAND MIXING OF RADIO FREQUENCIES VIA NANO-ELECTROMECHANICAL RESONATORS
Robert Blick (Germany) et al. (2 authors) (I) |
| D4.O.3
(1309) | FREQUENCY METHOD OF SUB-NANOMETER DISTANCE MEASUREMENT
Ondrej Cip (Czech Republic) et al. (3 authors) |
| D4.O.4
(1212) | CHARACTERISTIZATION AND SIMULATION OF SEMICONDUCTOR DEVICE ELECTROSTATIC DISCHARGE PROTECTION IN MICROWAVE CIRCUIT APPLICATIONS
Jam-Wem Lee (R.O. China) et al. (4 authors) |
| D4.O.5
(2162) | NOVEL ETCHING TECHNOLOGY OF INP BY INDUCTIVELY COUPLED PLASMA
Chang-Zheng Sun (P. R. China) et al. (4 authors) |
| D4.O.6
(1674) | ON THE SIMULATION OF PHOTONIC BAND GAP FILTERS
Smail TEDJINI (France) et al. (4 authors) (I) |
| D4.O.7
(628) | OPTICAL NEAR-FIELD STUDY OF LIMITED PHOTONIC CRYSTALS: APPLICATION TO MICRO CAVITY DESIGN
Rabia Moussa (France) et al. (6 authors) |
| D4.O.8
(847) | EXTERNAL OPTICAL PROBE FOR NOVEL IN-LINE TESTING METHOD OF DIGITAL CIRCUITS
Benoit PANNETIER (France) et al. (4 authors) |
| D4.O.9
(1078) | LOCALISED SURFACE PLASMONS: ELECTROMAGNETIC FIELD ENHANCEMENT AND LIGHT CONFINEMENT ON THE NANOSCALE
Anatoly Zayats (United Kingdom) (I) |
| D4.O.10
(2211) | III-V SEMICONDUCTOR BASED MOEMS AND PHOTONIC CRYSTALS
Christian SEASALL (France) et al. (6 authors) (I) |

D5 WAVE PROPAGATION IN FAST PHOTONIC DEVICES (C,P)

Le Nguyen Binh (Australia)

Oral session

Thursday, August 22, 2002 - afternoon

Room: 2.9/2.10

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| D5.O.1
(546) | POLYMERIC WAVEGUIDES AND DEVICES FOR INTEGRATED OPTICS APPLICATIONS
Edwin Pun (P. R. China) et al. (2 authors) (I) |
| D5.O.2
(3) | USE OF TRAVELLING WAVE CIRCUITS FOR CASCADE LASER DIODES
Stavros Iezekiel (United Kingdom) |
| D5.O.3
(92) | NOISE ANALYSIS FOR MODE-LOCKED LASERS
Nuran Dogru (Turkey) et al. (2 authors) |
| D5.O.4
(378) | SIMULATION OF ELECTROOPTIC MACH-ZEHNDER WAVEGUIDE MODULATOR USING FFT BASED BEAM PROPAGATION METHOD
Amirhossein Tehranchi (Iran) et al. (2 authors) |
| D5.O.5
(1299) | ON THE USE OF SDA FOR THE ANALYSIS OF TRAVELLING WAVE ELECTROOPTIC MODULATORS HAVING ASYMMETRIC ELECTRODES ARRAY
Claudio Kitano (Brazil) et al. (2 authors) |

**D6 MEMS (MICROELECTROMECHANICAL SYSTEMS) IN MICROWAVES,
MILLIMETERWAVES AND OPTICS (C,P)**

Peter Russer (Germany)

Oral session

Friday, August 23, 2002 - morning

Room: 2.9/2.10

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| D6.O.1
(1377) | DISTRIBUTED RF-MEMS CIRCUITS
N. Scott Barker (United States of America) (I) |
| D6.O.2
(1249) | RF MEMS: SWITCHES AND HIGH Q ELEMENTS
Torsten Mack (Germany) et al. (2 authors) (I) |
| D6.O.3
(1364) | ELECTROMAGNETIC MODELLING OF RF MEMS STRUCTURES
Roberto Sorrentino (Italy) et al. (2 authors) (I) |
| D6.O.4
(1893) | TOWARDS NANOSCALE MEMS:PROBLEMS AND PERSPECTIVES
Paolo Lugli (Italy) (I) |
| D6.O.5
(2033) | RF MEMS FOR HIGH-FREQUENCY APPLICATIONS
Linda Katehi (United States of America) et al. (2 authors) (I) |
| D6.O.6
(436) | IMPROVING THE COMB DRIVE ACTUATOR TRANSIENT RESPONSE USING DIGITAL
COMPENSATION TECHNIQUE.
Mostafa Mahmoud (Egypt.) et al. (4 authors) |
| D6.O.7
(1561) | ACCURATE TIME- AND FREQUENCY- DOMAIN MODELING OF HIGH FREQUENCY
MICROELECTROMECHANICAL SYSTEMS (MEMS) SWITCHES
Fabio Coccetti (Germany) et al. (6 authors) |

D7 PHOTONIC SIGNAL PROCESSING (C,P)

Le Nguyen Binh (Australia)

Oral session

Friday, August 23, 2002 - afternoon

Room: 2.9/2.10

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| D7.O.1
(598) | PHOTONIC SIGNAL PROCESSING
Robert Minasian (Australia) et al. (2 authors) (I) |
| D7.O.2
(1753) | USING SIMULATED ANNEALING FOR TOPOLOGICAL OPTIMISATION OF ALL-OPTICAL
MICROWAVE FILTERS
Philip Curtis (United Kingdom) et al. (3 authors) |
| D7.O.3
(1423) | FOUR-PORTS SYMMETRICALLY FUNCTIONAL PHOTONIC SWITCH USING AN ELECTROOPTIC
MATERIAL
Toshio Utsunomiya (Japan) |
| D7.O.4
(1047) | ADDRESSABLE AMPLITUDE SPECTRAL ENCODED OPTICAL CDMA SYSTEM FOR APPLICATION
IN ACCESS AND LOCAL AREA NETWORKS
Igor Radovanovic (The Netherlands) et al. (4 authors) |
| D7.O.5
(1070) | OPTICAL COMPONENT MODELING AND CIRCUIT SIMULATION USING A CAD SUITE
Laurent Guilloton (France) et al. (3 authors) |
| D7.O.6
(208) | PERFORMANCE EVALUATION OF A COHERENCE MULTIPLEX RECEIVER BASED ON PHASE
DIVERSITY DETECTION
Arjan Meijerink (The Netherlands) et al. (3 authors) |
| D7.O.7
(1907) | PHOTONIC AND MICROWAVE MANIPULATION OF NUCLEAR SPIN QUBITS
Boris Lembrikov (Israel) et al. (4 authors) |

DB ELECTROMAGNETIC BAND GAP STRUCTURES AND THEIR APPLICATIONS (C,P)

R W. Ziolkowski (D, USA) and Yahya Rahmat-Samii (B, USA)

Oral session Wednesday, August 21, 2002 - afternoon Room: 2.9/2.10

- DB.O.1 ELECTROMAGNETIC BAND GAP (EBG) STRUCTURES: CLASSIFICATIONS AND ENGINEERING APPLICATIONS
(236) Yahya Rahmat-Samii (United States of America) (I)
- DB.O.2 PHOTONIC BANDGAP ANTENNAS AND COMPONENTS FOR MICROWAVE AND (SUB)MILLIMETRE WAVE APPLICATIONS
(1687) Peter De Maagt (The Netherlands) et al. (5 authors) (I)
- DB.O.3 LEFT-HANDED TRANSMISSION LINES AND FILTERS WITH LOW-LOSS AND BROADBAND CHARACTERISTICS
(2093) Christophe Caloz (United States of America) et al. (4 authors) (I)
- DB.O.4 IMPEDANCE MATCHING DEVICES IN PHOTONIC CRYSTAL WAVEGUIDES: A NEW APPROACH AND ITS APPLICATIONS.
(2111) Stefano Boscolo (Italy) et al. (3 authors) (I)
- DB.O.5 RECONFIGURABLE METALLODIELECTRIC EBG STRUCTURES
(2118) J(Yiannis) Vardaxoglou (United Kingdom) et al. (4 authors) (I)
- DB.O.6 ELECTROMAGNETIC BANDGAP STRUCTURES AT OPTICAL FREQUENCIES AND THEIR APPLICATIONS
(672) Richard Ziolkowski (United States of America) (I)
- DB.O.7 COUPLED CAVITIES IN PHOTONIC CRYSTALS
(2100) Ekmel Ozbay (Turkey) et al. (4 authors) (I)
- DB.O.8 SENSITIVITY ANALYSIS OF NARROW-BAND PHOTONIC MICRO CAVITIES AND ARRAY WAVEGUIDES
(1189) Ben Z. Steinberg (Israel) et al. (2 authors) (I)
- DB.O.9 RESEARCH ON PHOTONIC CRYSTAL FIBERS USING FINITE DIFFERENCE ELECTROMAGNETIC ANALYSIS
(1197) Chin-ping Yu (R.O. China) et al. (3 authors)

Poster session Tuesday, August 20, 2002 - P1 Room: Expo Foyer

- DB.P.1 ANALYTICAL INVESTIGATIONS OF DISPERSION AND REFLECTION IN TWO-DIMENSIONAL ELECTROMAGNETIC CRYSTALS FORMED BY THIN INFINITE LOADED WIRES
(60) Pavel Belov (Russia) et al. (3 authors)
- DB.P.2 ELECTROMAGNETIC SCATTERING AND GUIDANCE BY TWO-DIMENSIONAL PHOTONIC BANDGAP STRUCTURES
(172) Hiroshi Toyama (Japan) et al. (3 authors)
- DB.P.3 A NOVEL EMBEDDED UC-PBG STRUCTURE FOR MICROSTRIP ANTENNAS
(1349) Yang Hao (United Kingdom) et al. (2 authors)
- DB.P.4 DISCRETE SELF-SIMILAR WAVEGUIDES FOR THE DESIGN OF SELECTIVE MICROWAVE FILTERS
(1765) Frederic Surre (France) et al. (3 authors)

DJ

PHOTONICS IN RADIO ASTRONOMY (C,P)

C H Cox (D, USA) and J.M. Payne (J, USA)

Oral session

Tuesday, August 20, 2002 - morning

Room: 2.9/2.10

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| DJ.O.1
(2070) | FIBER-OPTIC ANTENNA REMOTING FOR RADIOASTRONOMY APPLICATIONS
Edward Ackerman (United States of America) et al. (5 authors) (I) |
| DJ.O.2

(1895) | PHOTONIC LOCAL OSCILLATOR AND REFERENCE DISTRIBUTION FOR THE ATACAMA LARGE MILLIMETER ARRAY (ALMA)
John Payne (United States of America) et al. (2 authors) (I) |
| DJ.O.3
(1348) | HIGH FREQUENCY PHOTODIODE WORK IN JAPAN
Hiroshi Ito (Japan) (I) |
| DJ.O.4
(1919) | HIGH-FREQUENCY PHOTODETECTORS IN EUROPE
Andreas Stöhr (Germany) et al. (2 authors) (I) |
| DJ.O.5
(1852) | THE ALMA IF DATA TRANSFER SYSTEM
Bryan Anderson (United Kingdom) et al. (2 authors) (I) |
| DJ.O.6
(1569) | MULTI-TERABIT EDGE ROUTING IN THE LOFAR SIGNAL TRANSPORT NETWORK
Jaap Bregman (The Netherlands) et al. (3 authors) (I) |
| DJ.O.7

(1690) | ASSESSMENT OF GIGABIT ETHERNET TECHNOLOGY FOR THE LOFAR MULTI-TERABIT NETWORK
Haitao Ou (The Netherlands) et al. (3 authors) |
| DJ.O.8
(1138) | FIBRE OPTIC LINK DESIGN FOR E-MERLIN
Roshene McCool (United Kingdom) et al. (3 authors) |

DJA ADVANCES IN SUPERCONDUCTOR COMPONENTS AND APPLICATIONS (??)

M. Pyée (D, France) and G. Beaudin (J, France)

Oral session

Monday, August 19, 2002 - morning

Room: 2.9/2.10

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|-------------------|---|
| DJA.O.1
(1308) | PERSPECTIVES OF MAGNESIUM-DIBORIDE FOR SUPERCONDUCTING MICROWAVE DEVICE APPLICATIONS
Matthias Hein (Germany) (I) |
| DJA.O.2
(2261) | SUPERCONDUCTING DIGITAL CIRCUIT TECHNOLOGY BASED ON NBN RAPID SINGLE FLUX QUANTUM LOGICS
Jean-Claude Villegier (France) et al. (3 authors) (I) |
| DJA.O.3
(1098) | MAGNETIC FIELD MEASUREMENTS USING VERY SENSITIVE SQUIDS
Volkmar Schultze (Germany) et al. (9 authors) (I) |
| DJA.O.4
(1709) | SQUID ANTENNA PATTERN
Rachid Talhi (France) et al. (4 authors) |
| DJA.O.5
(1432) | THE BLOCH OSCILLATING TRANSISTOR: THEORY, EXPERIMENTS AND APPLICATIONS
Heikki Seppä (Finland) (I) |
| DJA.O.6
(2260) | SUBMILLIMETER MIXER BASED ON SUPERCONDUCTIVE PARALLEL JUNCTION ARRAYS
F. Boussaha (France) et al. (6 authors) (I) |
| DJA.O.7
(2262) | MODELLING, PROCESSING AND CHARACTERIZATION OF HIGH-TC SUPERCONDUCTING HOT ELECTRON BOLOMETER
A. Gaugue (France) et al. (7 authors) (I) |

DP

OPEN CONTRIBUTED POSTER SESSION

M. Pyée (France)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

DP.P.1 (441)	ON THE FREQUENCY BEHAVIORS OF DISCRETE-SYSTEM CHARACTERISTICS Oyedemi Samuel Oyekola (Nigeria) et al. (2 authors)
DP.P.2 (1057)	FOURTH ORDER ELECTRONIC CIRCUIT WITH CHAOTIC BEHAVIOUR Peter Bernat (Slovak Republic) et al. (2 authors)
DP.P.3 (668)	WAVE ANALYSIS OF TUNABLE MSW OSCILLATOR Andrii Seleznev (Ukraine) et al. (3 authors)
DP.P.4 (1552)	A PASSIVE HIGH EFFICIENCY MICROWAVE-OPTICAL CONVERTER Tchanguiz RAZBAN (France) et al. (2 authors)
DP.P.5 (1740)	DISTRIBUTED INTERFEROMETRIC FIBER OPTIC INTRUSION SYSTEM Akif Mamedov (Russia) et al. (3 authors)
DP.P.6 (1737)	20 GHZ LASER FREQUENCY TUNING BY FIBER-OPTIC PHASE MODULATOR Akif Mamedov (Russia) et al. (3 authors)
DP.P.7 (743)	GAIN BROADENING EDFAS FOR WDM NETWORKS Hassan Aghababaeian (Iran) et al. (2 authors)
DP.P.8 (1086)	IMPACT OF PHASE TO AMPLITUDE NOISE CONVERSION IN ANALOGUE OPTICAL LINKS Stephane BLANC (France) et al. (4 authors)
DP.P.9 (1644)	LOSS CHARACTERISTICS OF BENT WAVEGUIDES IN PLANAR LIGHTWAVE CIRCUITS WON JAY SONG (Korea) et al. (2 authors)
DP.P.10 (1654)	WAVELENGTH CHARACTERISTICS OF BENT WAVEGUIDES IN PLANAR LIGHTWAVE CIRCUITS WON JAY SONG (Korea) et al. (2 authors)
DP.P.11 (1719)	OPTICAL TRANSPARENCY AND OPTICAL OPACITY IN FUTURE ALL-OPTICAL PACKET SWITCHED NETWORK Marian Marciniak (Poland)
DP.P.12 (1724)	OPTICAL PACKET SWITCHING: APPROACH TO PERFORMANCE MODELING AND SIMULATION Mirosław Klinkowski (Poland) et al. (2 authors)
DP.P.13 (2161)	W-BAND GAAS HEMT MMIC SUBHARMONICALLY PUMPED DIODE MIXERS FOR ARRAY OF MICROWAVE BACKGROUND ANISOTROPY (AMIBA) RECEIVERS Yuh-jing Hwang (R.O. China) et al. (5 authors)

Commission E - ELECTROMAGNETIC NOISE AND INTERFERENCE

Chair: R.L. Gardner (USA) Vice-chair: P. Degauque (France)

E1 MATHEMATICAL METHODS IN FREQUENCY ASSIGNMENTS (I)

R. Struzak (Poland) and H. Blank (UK)

Oral session

Monday, August 19, 2002 - morning

Room: 0.2/0.3

E1.O.1 OPTIMISED BFWA SPECTRUM AND CELL PLANNING
(104) Stuart Allen (United Kingdom) et al. (3 authors) (I)

E1.O.2 POTENTIAL USABILITY OF ALLOCATED BUT UNUSED SPECTRUM IN THE UNITED STATES OF
(1406) AMERICA
Allen Petrin (United States of America) et al. (2 authors) (I)

E1.O.3 ECONOMIC ASPECTS OF SPECTRUM MANAGEMENT
(2203) Robert Leese (United Kingdom) (I)

E2 INTENTIONAL ELECTROMAGNETIC INTERFERENCE (I)

M. W. Wik (Sweden) and W. R. Radasky (USA)

Oral session

Thursday, August 22, 2002 - afternoon

Room: 0.2/0.3

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|----------------------|---|
| E2.O.1
(453) | IS HPM A THREAT AGAINST THE CIVIL SOCIETY?
Mats Bäckström (Sweden) et al. (3 authors) (I) |
| E2.O.2

(1379) | INTENTIONAL ELECTROMAGNETIC INTERFERENCE (IEMI) - BACKGROUND AND STATUS OF THE STANDARDIZATION WORK IN THE INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC)

Manuel W. Wik (Sweden) et al. (2 authors) (I) |
| E2.O.3
(2142) | DISRUPTION OF COTS PC'S DUE TO MICROWAVE ILLUMINATION
Arnold Wilbers (The Netherlands) et al. (3 authors) (I) |
| E2.O.4
(2064) | THE EFFECT OF GAUSSIAN NOISE ON A GENERIC COMPUTER BUS
Robert Gardner, Consultant (United States of America) et al. (3 authors) (I) |

E3

HIGH POWER ELECTROMAGNETICS (I)

C. E. Baum (USA) and R. L. Gardner (USA)

Oral session

Tuesday, August 20, 2002 - morning

Room: 0.2/0.3

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| E3.O.1
(212) | APERTURE DESIGN FOR IMPULSE RADIATING ANTENNAS
J. Scott Tyo (United States of America) et al. (4 authors) (I) |
| E3.O.2
(89) | RECENT ADVANCES IN IMPULSE RADIATING ANTENNA TECHNOLOGY
Everett Farr (United States of America) et al. (6 authors) (I) |
| E3.O.3
(687) | OFF-BORESIGHT, SPATIOTEMPORAL NEAR AND FAR FIELDS OF A REFLECTOR TYPE OF AN
IMPULSE-RADIATING ANTENNA
Dave Giri (United States of America) (I) |
| E3.O.4
(1816) | HIGH POWERED TRANSIENT ANTENNAS AND APPLICATIONS.
Paul Smith (United Kingdom) (I) |
| E3.O.5
(5) | THE DISPATCHER: A NEW MESOBAND HIGH-POWER RADIATOR
Carl E. Baum (United States of America) (I) |
| E3.O.6
(451) | THE SWEDISH MICROWAVE TEST FACILITY: TECHNICAL FEATURES AND EXPERIENCE FROM
SYSTEM TESTING
Mats Bäckström (Sweden) et al. (3 authors) (I) |
| E3.O.7
(432) | HIGH POWER ELECTROMAGNETIC EFFECTS : METHODOLOGY AND ASSOCIATED TOOLS
Jean-Christophe JOLY (France) et al. (2 authors) (I) |
| E3.O.8
(1596) | EFFECT OF HEAT TRANSFER ON THE PROPAGATION OF A LIGHTNING RETURN STROKE
CURRENT WAVEFORM
Robert Gardner (United States of America) (I) |
| E3.O.9
(1105) | INVESTIGATION OF STATIONARY AND NON-STATIONARY PROCESSES IN A X-BAND
MICROSECOND RELATIVISTIC GYROTRON
Nikolay Zaitsev (Russia) et al. (9 authors) |

E4 LIGHTNING OBSERVATIONS FROM SPACE AND GLOBAL LIGHTNING ACTIVITY (I)

Z. Kawasaki (Japan) and Anne Bondiou-Clergerie (France)

Oral session

Tuesday, August 20, 2002 - afternoon

Room: 0.2/0.3

- E4.O.1 RADIO FREQUENCY OBSERVATIONS OF LIGHTNING DISCHARGES BY THE FORTE SATELLITE
(1405) Xuan-Min Shao (United States of America) et al. (4 authors) (I)
- E4.O.2 ORAGES (OBSERVATION RADIOéLECTRIQUE ET ANALYSE GONIOMéTRIQUE DES ECLAIRS PAR SATELLITE) : A MICRO-SATELLITE TO DETECT AND TO LOCATE THE LIGHTNING VHF EMISSIONS FROM SPACE
(1559) Philippe Lalande (France) et al. (5 authors)
- E4.O.3 COORDINATED GLOBAL MEASUREMENTS OF TLE FROM THE SPACE SHUTTLE DURING THE MEDITERRANEAN ISRAELI DUST EXPERIMENT (MEIDEX)
(1013) Yoav Yair (Israel) et al. (9 authors) (I)
- E4.O.4 GLOBAL SURVEY OF LIGHTNING-INDUCED TRANSIENT LUMINOUS EVENTS ON THE ROCSAT-2 SATELLITE
(732) Han-Tzong Su (R.O. China) et al. (7 authors) (I)
- E4.O.5 LIGHTNING FLASH OBSERVATION BY SPACECRAFT IN VENUS AND THE EARTH
(1939) Yukihiro Takahashi (Japan) et al. (6 authors)
- E4.O.6 ON THE RELATIONSHIP BETWEEN RADAR REFLECTIVITY FACTOR AND THUNDERSTORM FLASH RATE
(1617) Tomoo Ushio (Japan) et al. (5 authors) (I)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- E4.P.1 LIGHTNING OBSERVATIONS AND IMAGING OF CHARGE DISTRIBUTION IN THUNDERCLOUDS USING BROADBAND INTERFEROMETER
(665) Takeshi MORIMOTO (Japan) et al. (2 authors)
- E4.P.2 MODELING OF ELECTRIC STRUCTURE OF A MESOSCALE CONVECTIVE SYSTEM
(1380) Stanislav S. Davydenko (Russia) et al. (2 authors)
- E4.P.3 GLOBAL MAPPING OF LIGHTNING ACTIVITY BY USING A SINGLE STATION BASED ON ELF TRANSIENTS OBSERVED IN JAPAN
(1585) Yasuhide Hobara (France) et al. (3 authors)
- E4.P.4 OBSERVATION OF TRANSIENT OPTICAL EMISSIONS IN THE MIDDLE AND UPPER ATMOSPHERE USING ARRAY PHOTOMETER
(1659) Yukihiro Takahashi (Japan) et al. (8 authors) (I)
- E4.P.5 NUMERICAL SIMULATIONS OF HIGH-ENERGY ELECTRON AVALANCHES IN THUNDERSTORM ELECTRIC FIELDS AND ASSOCIATED RADIO EMISSIONS
(2147) Heidi Ellen Tierney (United States of America) et al. (3 authors)
- E4.P.6 LIGHTNING ACTIVITY IN ASIA OBSERVED BY TRMM/LIS
(1239) Zen KAWASAKI (Japan) (I)

Commission E

URSI GA 2002 - Oral and Poster Sessions

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|------------------|---|
| E4.P.7
(1146) | LIGHTNING AND CLIMATE: THE WATER VAPOR CONNECTION
Colin Price (Israel) et al. (2 authors) (I) |
| E4.P.8
(476) | TRUE GLOBAL MAPPING OF LIGHTNING USING WIDELY SPACED VLF RECEIVERS ON THE GROUND
Richard Dowden (New Zealand) et al. (3 authors) (I) |

E5 ELECTROMAGNETIC INTERACTION WITH COMPLEX SYSTEMS (I)

J. P. Parmentier (France) and Michel Ianoz (Switzerland)

Oral session

Wednesday, August 21, 2002 - morning

Room: 0.2/0.3

- E5.O.1 RELATIONSHIPS BETWEEN TIME- AND FREQUENCY-DOMAIN NORMS OF SCALAR FUNCTIONS
(2085) Carl E. Baum (United States of America) (I)
- E5.O.2 RANDOM ILLUMINATION BY A DIPOLE OF A TRANSMISSION LINE PLACED IN A ROOM. A PROBABILISTIC AND STATISTICAL APPROACH.
(2166) WALID TABBARA (France) et al. (5 authors) (I)
- E5.O.3 MULTIVARIATE TECHNIQUES IN ELECTROMAGNETIC TESTING OF COMPLEX SYSTEMS
(1914) Robert Gardner, Consultant (United States of America) et al. (3 authors) (I)
- E5.O.4 THE CITADELLE: A UNIQUE FACILITY FOR DEVELOPING TEST TECHNIQUES FOR COMPLEX SYSTEMS
(1917) David Stoudt (United States of America) et al. (3 authors) (I)
- E5.O.5 INVESTIGATION OF HIGH-FREQUENCY COUPLING WITH UNIFORM AND NON-UNIFORM LINES: COMPARISON OF EXACT ANALYTICAL RESULTS WITH THOSE OF DIFFERENT APPROXIMATIONS.
(2187) Sergey Tkachenko (Germany) et al. (2 authors) (I)
- E5.O.6 PROBABILISTIC INTERFERENCE DISTRIBUTION ON CABLES DUE TO RANDOMLY DISTRIBUTED MOBILE PHONES
(1165) Raed Abd-Alhameed (United Kingdom) et al. (3 authors)
- E5.O.7 MODELING OF THE PENETRATION OF AN ELECTROMAGNETIC FIELD INSIDE AN AUTOMOBILE USING A PARALLEL VERSION OF NEC: SIMULATION AND EXPERIMENTAL VALIDATION
(2210) Abraham Rubinstein (Switzerland) et al. (3 authors) (I)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- E5.P.1 DYNAMICAL CHAOS IN THE PENETRATION OF RELATIVISTIC HEAVY ION THROUGH MATTER
(2200) Khamdam Rakhimov (Uzbekistan)

E6 RADIATION FROM AND COUPLING TO PCBs (I)

Bernard Demoulin (France) and Yoshio Kami (Japan)

Oral session

Friday, August 23, 2002 - afternoon

Room: 0.2/0.3

- E6.O.1 PLACEMENT OF ICS ON PCBs INSIDE RECTANGULAR ENCLOSURES USING STOCHASTIC AND OPTIMIZATION APPROACHES
(763) Sotirios Goudos (Greece) et al. (4 authors) (I)
- E6.O.2 COUPLING EFFECTS AND RADIATION OF A 3-LAYER PCB ON TOP OF A METAL CABINET PLANE
(1243) S. Kapora (The Netherlands) et al. (2 authors)
- E6.O.3 THEORETICAL SIMULATION OF ELECTROMAGNETIC BEHAVIOUR OF A THREE-DIMENSIONAL TEM CELL WORKING ON RESONANCE
(1527) Virginie DENIAU (France) et al. (6 authors) (I)
- E6.O.4 ANALYTICAL SIMULATION OF RADIATED EMISSION FROM POWER BUS NOISE ON PCB WITH LINEAR MACRO-MODEL OF IC/LSI
(1691) Osami Wada (Japan) et al. (5 authors) (I)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- E6.P.1 APPLICATION CISPR 22-97 (GOST R 51318.22-99) STANDARD TO MEASUREMENT OF DISTURBANCES AT TELECOMMUNICATION PORTS
(438) Vasili Dolotko (Russia) et al. (5 authors)

E7 TERRESTRIAL ELECTROMAGNETIC PHENOMENA (I,C)

M. Hayakawa (Japan) and A P Nickolaenko (Ukraine)

Oral session

Thursday, August 22, 2002 - morning

Room: 0.2/0.3

- E7.O.1 EXPERIMENTAL INVESTIGATION OF UNIVERSAL SPECTRA OF ELECTRIC FIELD PULSATION IN THE NEAR-SURFACE ATMOSPHERE
(1369) S.V. Anisimov (Russia) et al. (4 authors)
- E7.O.2 FRACTAL DYNAMICS OF THUNDERCLOUD ELECTRIC DISCHARGES
(1095) Dmitry Iudin (Russia) et al. (4 authors) (I)
- E7.O.3 ACCELERATION OF ELECTRONS BY STOCHASTIC ELECTRIC FIELD IN A THUNDERCLOUD
(1107) Victor Trakhtengerts (Japan) et al. (4 authors)
- E7.O.4 RECENT MEASUREMENTS AND MODELING OF ELF/VLF RADIO NOISE
(1961) Antony Fraser-Smith (United States of America) et al. (3 authors) (I)
- E7.O.5 POLARIZATION OF NATURAL RESONANCE SIGNALS IN ULF-ELF BANDS
(660) Alexander Nickolaenko (Ukraine) et al. (4 authors) (I)
- E7.O.6 DIURNAL-SEASONAL VARIATIONS IN THE SCHUMANN RESONANCE: TERMINATOR EFFECT OR SOURCE-RECEIVER DISTANCE EFFECT?
(957) Alexander Melnikov (Israel) et al. (4 authors) (I)
- E7.O.7 GLOBAL TRIANGULATION OF AFRICAN AND OCEANIC LIGHTNING
(495) Martin Füllekrug (Germany) et al. (4 authors)
- E7.O.8 INTERRELATION BETWEEN ELF TRANSIENTS AND IONOSPHERIC DISTURBANCES IN ASSOCIATION WITH SPRITES AND ELVES
(590) Yasuhide Hobara (France) et al. (5 authors) (I)
- E7.O.9 NATURAL AND MAN-MADE WHISTLER-MODE WAVES IN THE IONOSPHERE AND MAGNETOSPHERE
(1647) Umran Inan (United States of America) (I)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- E7.P.1 MESOSPHERIC ELECTRIC FIELDS DUE TO METEORIC CHARGED DUST
(155) Victoria Yaroshenko (Belgium) et al. (3 authors)
- E7.P.2 ON THE VERTICAL ELECTRICAL STRUCTURE OF A DUST CLOUD IN THE ATMOSPHERIC BOUNDARY LAYER
(696) Andrei Sorokin (Russia) et al. (2 authors)
- E7.P.3 LIGHTNING FLASH MULTIPLICITY MEASUREMENTS BY THE U. S. NATIONAL LIGHTNING DETECTION NETWORK
(525) Rodger Craig J. (New Zealand) et al. (2 authors)
- E7.P.4 MEASUREMENT OF ELF EMISSIONS IN THE UPPER ATMOSPHERE AT CALCUTTA DUE TO SCHUMANN RESONANCES
(566) S.S. De (India) et al. (3 authors)

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| E7.P.5 | INFLUENCE OF CONDUCTIVITY PERTURBATION AT THE MIDDLE ATMOSPHERE ON SCHUMANN RESONANCES |
| (568) | S.S. De (India) et al. (3 authors) |
| E7.P.6 | HIGH FREQUENCY ELECTROMAGNETIC EMISSION ON LIGHTNING DISCHARGE PRELIMINARY STAGE |
| (1102) | Masashi Hayakawa (Japan) et al. (4 authors) |
| E7.P.7 | LOW FREQUENCY EMISSION RADIO HINDRANCE, AS A MEANS OF DIAGNOSTIC O PROCESSES IN NEAR-EARTH SPACE |
| (505) | Larkina Vera (Russia) |
| E7.P.8 | THEORETICAL ANALYSIS ON THE PENETRATION OF POWER LINE HARMONIC RADIATION INTO THE IONOSPHERE |
| (539) | Yoshiaki Ando (Japan) et al. (2 authors) |
| E7.P.9 | NEW FULLY ELECTROMAGNETIC SIMULATIONS OF SPRITES INITIATED BY RUNAWAY AIR BREAKDOWN |
| (2209) | Robert Roussel-Dupre (United States of America) et al. (4 authors) |
| E7.P.10 | GLOBAL PROBING OF LOW-LATITUDE D-REGION DISTURBANCES BY TWEEK ATMOSPHERICS OBSERVATIONS |
| (1022) | Hiroyo Ohya (Japan) et al. (3 authors) |
| E7.P.11 | THE STUDY OF LONG PROPAGATION CHARACTERISTICS OF HYBRID TWEEK WAVE |
| (1653) | Kohji Kawakita (Japan) et al. (3 authors) |
| E7.P.12 | APPLICATION OF THE GROUND-BASED DIRECTION FINDING TECHNIQUES TO THE VLF WAVE TRANSMITTED AT GEOMAGNETIC CONJUGATE POINT IN MID-LATTITUDE |
| (1933) | Shin Shimakura (Japan) et al. (4 authors) |
| E7.P.13 | PROPAGATION CHARACTERISTICS OF VLF WAVE TRANSMITTED AT GEOMAGNETIC CONJUGATE POINT IN MID-LATITUDE |
| (1937) | Tomoya Sakai (Japan) et al. (4 authors) |

E8 EM INTERACTION WITH AND SUSCEPTIBILITY OF ANALOGUE AND DIGITAL ELECTRONICS (I)

I. Kohlberg (USA) and J. Nitsch (Germany)

Oral session

Monday, August 19, 2002 - afternoon

Room: 0.2/0.3

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|-------------------|--|
| E8.O.1
(825) | SUSCEPTIBILITY OF DIFFERENT SEMICONDUCTOR TECHNOLOGIES TO EMP AND UWB
Heyno Garbe (Germany) et al. (2 authors) (I) |
| E8.O.2
(2167) | THE ACTION OF NON-LINEAR EFFECTS IN A RESONATOR
Hans-Georg Krauthäuser (Germany) et al. (3 authors) (I) |
| E8.O.3
(1352) | SUSCEPTIBILITY AND VULNERABILITY OF SEMICONDUCTOR COMPONENTS AND CIRCUITS AGAINST HPM
Frank Sonnemann (Germany) et al. (2 authors) (I) |
| E8.O.4
(1011) | DETERMINATION OF THE WB AND UWB SUSCEPTIBILITY OF MICROPROCESSORS AND ELECTRONIC COMPONENTS -NEW MEASUREMENT SETUP AND FIRST RESULTS
Daniel Nitsch (Germany) et al. (4 authors) |
| E8.O.5
(1027) | FAST AND ANALYTICAL CALCULATION OF ANTENNA COUPLING WITHIN CAVITIES
Frank Gronwald (Germany) et al. (3 authors) (I) |
| E8.O.6
(2185) | COUPLING INTO 3D INTERCONNECTION STRUCTURES WITH NONLINEAR LOADS ? AN APPLICATION OF THE METHOD OF PARTIAL ELEMENTS
Wollenberg Guenter (Germany) et al. (2 authors) (I) |
| E8.O.7
(1426) | INTENTIONAL EMI TEST OF A FACILITY SECURITY ENTRY SYSTEM
Richard Carter (United States of America) et al. (3 authors) (I) |
| E8.O.8
(1525) | HARDENING OF ELECTRONICS AGAINST TRANSMISSION LINE COUPLED UWB-SIGNALS
Thomas Weber (Germany) et al. (2 authors) |
| E8.O.9
(1305) | MITIGATING THE EFFECTS OF PULSED INTERFERENCE ON DATA COMMUNICATIONS
Robert Boling (United States of America) et al. (2 authors) (I) |
| E8.O.10
(1425) | ELECTROMAGNETIC SUSCEPTIBILITY DATA ANALYSIS USING MULTIVARIATE LOGISTIC REGRESSION
Cynthia Ropiak (United States of America) et al. (3 authors) (I) |

EA ELECTROMAGNETIC COMPATIBILITY AND ELECTROMAGNETIC POLLUTION (I)

Pierre Degauque (E, France) and Roberto De Leo (A, Italy)

Oral session

Friday, August 23, 2002 - morning

Room: 0.2/0.3

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| EA.O.1
(90) | A MULTIPURPOSE WIDEBAND ANECHOIC CHAMBER
Boon Kuan Chung (Malaysia) et al. (2 authors) |
| EA.O.2
(799) | EMC-ORIENTED FIELD PREDICTION FOR INDOOR MICROWAVE LAN SYSTEMS
Paolo Bernardi (Italy) et al. (3 authors) |
| EA.O.3
(864) | REDUCTION OF ELECTROMAGNETIC POLLUTION IN MOBILE COMMUNICATION SYSTEMS BY AN OPTIMIZED LOCATION OF RADIO BASE STATIONS
Graziano Cerri (Italy) et al. (4 authors) (I) |
| EA.O.4
(1851) | CONFORMAL TRANSFORMATIONS APPLIED TO SEVERAL EMC PROBLEMS
Alexander Van Deursen, P.J. (The Netherlands) et al. (3 authors) |
| EA.O.5
(772) | EMC ASPECTS OF POWER LINE TELECOMMUNICATION
Ahmed Zeddami (France) et al. (4 authors) (I) |
| EA.O.6
(795) | EFFECTS OF REALISTIC GROUNDPLANES TO NSA-MEASUREMENTS OF OPEN AREA TEST SITES (OATS)
Sven Battermann (Germany) et al. (2 authors) (I) |

EF

INTERFERENCE IN COMMUNICATION (I)

J. Gavan (E, Israel) and David F. Bacon (F, United Kingdom)

Oral session

Saturday, August 24, 2002 - morning

Room: 0.2/0.3

- EF.O.1 INTERFERENCE ON MULTICARRIER-BASED POWER LINE COMMUNICATIONS SYSTEMS
(130) Virginie Degardin (France) et al. (2 authors) (I)
- EF.O.2 AVERAGE DISTANCE APPROACH FOR INTERFERENCE CALCULATION BETWEEN IMT-2000
(594) TRANSMITTERS AND FIXED COMMUNICATION NETWORKS
Raúl Chávez Santiago (Israel) et al. (2 authors) (I)
- EF.O.3 EMI IN WIRELESS COMMUNICATIONS: FULL-SCALE BEHAVIOURAL-LEVEL SIMULATION
(645) Sergey Loyka (Canada) (I)
- EF.O.4 TRANSMITTERS INTERFERENCE TO VICTIM RECEIVERS AND RADIATION HAZARD TO HUMAN;
(856) ARE THEY CORRELATED?
Jacob Gavan (Israel) et al. (2 authors) (I)
- EF.O.5 PREDICTION OF PROPAGATION CHARACTERISTICS FOR FREQUENCY AND CELL PLANNING IN
(1260) URBAN ENVIRONMENTS
Natan Blaunstein (Israel) et al. (2 authors) (I)
- EF.O.6 INFLUENCE OF METROLOGY ON THE TRANS-HORIZON ILLUMINATION OF OBSTACLES AND
(1611) THEIR SITE SHIELDING FACTOR
Miqdad Al-Nuaimi (United Kingdom) et al. (3 authors) (I)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- EF.P.1 EMC AND FREQUENCY SHARING ISSUES IN TETRA 2 TRUNKING NETWORKS
(79) Mikhail Selivanov (Russia)
- EF.P.2 MICROWAVE OVEN INTERFERENCE IN ISM BAND LINKS
(108) Arttu Rantala (Finland) et al. (2 authors)
- EF.P.3 NEW INTERFERENCE REJECTION TECHNIQUE FOR SPREAD SPECTRUM COMMUNICATIONS
(485) Rafal Piotrowski (Poland) et al. (2 authors)
- EF.P.4 NON-AWGN RECEPTION - AN EXPERIMENTAL STUDY
(845) Rafal Piotrowski (Poland)
- EF.P.5 INTERFERENCE ASSESSMENTS BETWEEN SOLAR POWER SATELLITE (SPS) AND
(1462) SPACE/TERRESTRIAL SYSTEMS
Takeshi HATSUDA (Japan) et al. (2 authors)
- EF.P.6 WIDEBAND IMPULSIVE NOISE MEASUREMENTS IN DVB-T AND UMTS RADIO CHANNELS
(1491) Iñigo Cuiñas (Spain) et al. (3 authors)
- EF.P.7 THE UTILISATION OF THE HF SPECTRUM OVER A SUNSPOT CYCLE
(2107) Lefteris Economou (United Kingdom) et al. (5 authors)
- EF.P.8 OPTIMUM UTILIZATION OF THE CHANNEL CAPACITY OF A DUAL POLARIZED SATELLITE LINK
(2175) SUFFERING FROM INTERFERENCE DUE TO ATMOSPHERIC PRECIPITATION
Athanasios Panagopoulos (Greece) et al. (2 authors)

EGH LITHOSPHERE-ATMOSPHERE-IONOSPHERE COUPLING (I,C)

M. Hayakawa (E, Japan) and S. Pulinets (G, Russia)

Oral session

Wednesday, August 21, 2002 - afternoon

Room: 0.2/0.3

- EGH.O.1 (853) SEISMOELECTROMAGNETIC AND RELATED PHENOMENA OBSERVED ON THE GROUND
Oleg Molchanov (Russia) (I)
- EGH.O.2 (484) SEISMO-ATMOSPHERIC EFFECTS: REVIEW
Masashi Hayakawa (Japan) (I)
- EGH.O.3 (511) SEISMO-IONOSPHERIC PHENOMENA: STATUS OF THE ART BEFORE DEMETER
Michel PARROT (France) (I)
- EGH.O.4 (1004) THE LATEST ASPECTS OF GEOELECTRIC POTENTIAL DIFFERENCE MEASUREMENTS IN JAPAN AND FUTURE DIRECTION OF INTERNATIONAL CO-OPERATION IN THE SEISMO-VOLCANIC ELECTROMAGNETIC STUDY
Toshiyasu Nagao (Japan) et al. (2 authors) (I)
- EGH.O.5 (1760) SEISMOELECTROMAGNETIC RESEARCH IN THE FRONTAL PART OF THE HELLENIC ARC: RESULTS AND EXPECTATIONS.
Filippos Vallianatos (Greece) (I)
- EGH.O.6 (449) SPACE SEISMOMETERS
Jann-Yenq Liu (R.O. China) et al. (7 authors) (I)
- EGH.O.7 (726) THE TERMINATOR-TIME METHOD AND 3D PROBLEM OF SUBIONOSPHERIC RADIO WAVE PROPAGATION ACROSS THE SOLAR TERMINATOR
Oleg Soloviev (Russia) et al. (3 authors) (I)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- EGH.P.1 (755) ULF GEOMAGNETIC ANOMALIES ASSOCIATED WITH EARTHQUAKES
Katsumi Hattori (Japan) et al. (9 authors)
- EGH.P.2 (756) ULF GEOMAGNETIC ANOMALY ASSOCIATED WITH 2000 IZU ISLANDS EARTHQUAKE SWARM IN JAPAN
Katsumi Hattori (Japan) et al. (5 authors)
- EGH.P.3 (1220) ELECTROMAGNETIC EMISSION CAUSED BY FRACTURING OF PIEZOELECTRIC IN ROCK
Svitlana Koshova (Mexico) et al. (7 authors)
- EGH.P.4 (1583) ULF/ELF OBSERVATION IN SEIKOSHI, JAPAN AND THE PRECURSORY SIGNAL FOR RECENT LARGE SEISMIC EVENTS
Yasuhide Hobara (France) et al. (4 authors)
- EGH.P.5 (100) VARIATIONS OF QUASI-ELECTROSTATIC FIELD BEFORE THREE EARTHQUAKES ADJACENT TO HANDAN
Yantang LI (P. R. China) et al. (2 authors)
- EGH.P.6 (540) EARTH-ORIGIN ELECTRIC NOISES AND ELECTRICAL PARAMETERS OF THE EARTH CRUST
Minoru Tsutsui (Japan) et al. (2 authors)
- EGH.P.7 ELECTROMAGNETIC-WAVE RADIATIONS DUE TO POSSIBLE PLATE SLIP AT THE CENTRAL SHIZUOKA EARTHQUAKES AND TO THE ISLANDS DIASTROPHISM AND VOLCANIC ERUPTION IN

- | | |
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| | MIYAKE ISLANDS |
| (661) | Masayasu Hata (Japan) et al. (4 authors) |
| EGH.P.8
(134) | STRONG MESOSPHERIC ELECTRIC FIELDS AND TROPOSPHERE-MESOSPHERE COUPLING
Sergey I. Martynenko (Ukraine) |
| EGH.P.9
(135) | LARGE-SCALE DISTURBANCES ORIGINATING FROM REMOTE EARTHQUAKES AND STRONG
MESOSPHERIC ELECTRIC FIELDS
Alexander M. Gokov (Ukraine) et al. (4 authors) |
| EGH.P.10
(570) | IONOSPHERIC PERTURBATION IN ASSOCIATION WITH SEISMIC ACTIVITY, A STATISTICAL
STUDY
Yasuhide Hobara (France) et al. (2 authors) |
| EGH.P.11
(813) | OBSERVATION OF VLF SIGNAL VARIATION ASSOCIATED WITH EARTHQUAKE AT KAMCHATKA
Rozhnoi A.A. (Russia) |
| EGH.P.12
(1219) | ELECTROSTATIC FIELD VARIATIONS IN THE LOWER IONOSPHERE DUE TO THE CHANGE OF
NEAR-EARTH ATMOSPHERE CONDUCTIVITY, 3D MODELING
Vladimir Grimalsky (Mexico) et al. (5 authors) |
| EGH.P.13
(1422) | OBSERVATIONS OF PRECURSORY SIGNATURE OF EARTHQUAKE IN JAPAN BY IONOSPHERIC
SOUNDER SATELLITE
Toshio Utsunomiya (Japan) |
| EGH.P.14
(1754) | OBSERVATIONS OF ELECTROMAGNETIC PHENOMENA IN VHF BANDS POSSIBLY ASSOCIATED
WITH EARTHQUAKES
Toshiaki Takano (Japan) et al. (4 authors) (I) |
| EGH.P.15
(1781) | BROADBAND OBSERVATIONS OF ANOMALY IN TV BROADCASTING PROPAGATION POSSIBLY
RELATED TO EARTHQUAKE
Kurt Sakai (Japan) et al. (4 authors) |
| EGH.P.16
(1465) | OBSERVATION OF CO-SEISMIC ELECTROMAGNETIC PHENOMENA IN VHF ASSOCIATED WITH
THE GEIYO EARTHQUAKE IN 2001
Teruaki Yoshida (Japan) et al. (2 authors) |
| EGH.P.17
(176) | ELECTROMAGNETIC EMISSIONS FROM GEOSPOT ACTING AS A PRECURSOR TO EARTHQUAKE
Tushar Kanti Das (India) et al. (3 authors) |

Commission F - WAVE PROPAGATION AND REMOTE SENSING

Chair: Y. Furuhashi (Japan) Vice-chair: M. Hallikainen (Finland)

F1

RADIOMETEOROLOGY (I)

Rod L. Olsen (Canada) and J. P. V. Poyares Baptista (The Netherlands)

Oral session

Monday, August 19, 2002 - morning

Room: 0.9 Athens

- F1.O.1 RAIN STRUCTURE AND ITS IMPLICATIONS FOR RADIO COMMUNICATIONS AND REMOTE SENSING
(2177) Ishtar Zawadzki (Canada) (I)
- F1.O.2 SMALL AND LARGE SCALE SPATIAL DISTRIBUTION OF PRECIPITATION
(2113) Aldo Paraboni (Italy) et al. (4 authors) (I)
- F1.O.3 THE TROPICAL RAINFALL MEASURING MISSION (TRMM): CONVERGENCE OF THE RAINFALL PRODUCTS FROM THE RADAR AND RADIOMETER
(1822) Christian Kummerow (United States of America) et al. (3 authors) (I)
- F1.O.4 A COMPARISON OF RAIN ATTENUATION AND DROP SIZE DISTRIBUTIONS
(1815) Walther Aasen (Norway) et al. (2 authors) (I)
- F1.O.5 IMPROVED CLEAR-AIR REFRACTIVITY PARAMETERS AND ATMOSPHERIC DESCRIPTION USING HIGH RESOLUTION RADIOSONDES
(1888) Sofus Linge Lystad (Norway) (I)
- F1.O.6 MULTIPATH FADING IN LINE-OF-SIGHT MICROWAVE LINKS: VARIATION WITH LOCAL TIME AND FADE DURATION STATISTICS
(1847) Andre Zygielszyper (Brasil) et al. (4 authors)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- F1.P.1 CLIMATIC PARAMETERS IN PREDICTION OF RADIOWAVE PROPAGATION IN POLAR REGIONS OF RUSSIA
(567) Galina Zhamsueva (Russia) et al. (2 authors)
- F1.P.2 RAIN PARAMETERS CALCULATED FROM RAINDROP SIZE DISTRIBUTION FOR THE DESIGN OF FUTURE SPACEBORNE PRECIPITATION RADAR
(1031) Tomoaki Mega (Japan) et al. (4 authors)
- F1.P.3 DISCRIMINATION BETWEEN WEATHER AND SEA CLUTTER USING DOPPLER AND DUAL-POLARIZATION WEATHER RADARS
(1383) Alexander Ryzhkov (United States of America) et al. (4 authors)
- F1.P.4 PROGRESS IN THE DETECTION OF CONVECTIVE TURBULENCE USING AIRBORNE DOPPLER RADARS
(1408) Larry Cornman (United States of America)
- F1.P.5 A NEW METHOD OF ONE-MINUTE RAIN-RATE DISTRIBUTION FROM OTHER INTEGRATION TIME DATA OF RAINFALL
(1450) JOO-HWAN LEE (Korea) et al. (4 authors)

Commission F

URSI GA 2002 - Oral and Poster Sessions

- F1.P.6 RETRIEVAL OF WATER CLOUD MICROPHYSICAL PARAMETERS FROM SIMULTANEOUS RADAR AND LIDAR MEASUREMENTS
(1706) O. A. Krasnov (The Netherlands) et al. (2 authors)
- F1.P.7 THE STATISTICAL MODELING OF DUCT CHANNELS AND THE PREDICTION OF RADIO INTERFERENCE THROUGH DUCTING
(2045) Nam-Ho Jeong (South Korea) et al. (3 authors)
- F1.P.8 MEASUREMENT AND PARAMETERIZATION OF RAINDROP SIZE DISTRIBUTIONS
(2134) Remko Uijlenhoet (The Netherlands)
- F1.P.9 INHOMOGENEOUSES OF AIR REFRACTIVE INDEX n IN HIGH-LATITUDED TROPOSPHERE
(2164) Vadim Tsydypov (Russia)
- F1.P.10 RANDOM SPACE-TIME VARIATIONS OF THE REFRACTIVITY IN THE TROPOSPHERE OVER THE SEA OF OKHOTSK
(2214) Yuri Akulinichev (Russia) et al. (3 authors)

F2 CLIMATIC PARAMETERS IN RADIOWAVE PROPAGATION AND THEIR MODELLING (I)

Terje Tjelta (Norway) and Calro Riva (Italy)

Oral session

Monday, August 19, 2002 - afternoon

Room: 0.9 Athens

- F2.O.1 COASTAL ENVIRONMENT REFRACTIVITY AND PROPAGATION PREDICTIONS USING
(2120) NUMERICAL ATMOSPHERIC MODELS
Andy Kulesa (Australia) et al. (4 authors) (I)
- F2.O.2 MEASUREMENT OF ATMOSPHERIC WATER VAPOUR AND REFRACTIVITY PROFILES USING GPS
(871) Peter Watson (United Kingdom) et al. (3 authors) (I)
- F2.O.3 EFFECTS OF ICE ON SLANT PATH EARTH-SPACE RADIO COMMUNICATION LINKS
(1839) Antonio Martellucci (The Netherlands) et al. (3 authors) (I)
- F2.O.4 MULTIPLE-SITE ATTENUATION PREDICTION MODELS BASED ON THE RAINFALL STRUCTURES
(2129) (STRATIFIED AND CONVECTIVE) FOR ADVANCED TLC OR BROADCASTING SYSTEMS
Aldo Paraboni (Italy) et al. (2 authors) (I)
- F2.O.5 THE THUNDERSTORM RATIO AS A REGIONAL CLIMATIC PARAMETER: ITS EFFECTS ON
DIFFERENT-INTEGRATION-TIME RAIN RATE CONVERSION, RAIN ATTENUATION, SITE
(181) DIVERSITY AND RAIN DEPOLARIZATION
Chieko Ito (Japan) et al. (2 authors) (I)
- F2.O.6 MULTIPATH FADING CORRELATION IN MULTI-HOP NETWORKS
(1632) Luiz Da Silva Mello (Brazil) et al. (4 authors) (I)
- F2.O.7 ESTIMATION OF CELL AREA COVERAGE AND CELL-SITE DIVERSITY GAIN UNDER RAINY
CONDITIONS IN 30 GHZ FIXED WIRELESS CELLULAR SYSTEMS USING RADAR MEASUREMENTS
(1599) Gamantyo Hendrantoro (Canada) et al. (4 authors) (I)
- F2.O.8 PREDICTION OF RARE PROPAGATION EVENTS: THE CHANGING FACE OF OUTAGE RISK
ASSESSMENT
(937) Jeremy Allnutt (United States of America) et al. (2 authors) (I)
- F2.O.9 CHARACTERISTICS OF EARTH-SPACE PROPAGATION IN CONTINENTAL AND PACIFIC MARITIME
LOCATIONS BASED ON MULTIYEAR KU- AND KA-BAND MEASUREMENTS
(1909) César Amaya (Canada) et al. (2 authors)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- F2.P.1 RAIN ATTENUATION STUDY OVER TERRESTRIAL AND EARTH-SATELLITE LINKS IN MALAYSIA
(1483) Sharul Kamal Abdul Rahim (Malaysia) et al. (6 authors)

F3 MILLIMETRIC, SUB-MILLIMETRIC AND OPTICAL WAVE PROPAGATION PREDICTION (I)

C. J. Gibbins (UK) and Takeshi Manabe (Japan)

Oral session

Tuesday, August 20, 2002 - afternoon

Room: 0.9 Athens

- F3.O.1 GAS ABSORPTION MEASUREMENT AT 50-70GHZ AND 115GHZ BAND FOR IN-SITU GAS SENSOR DEVELOPMENT
(1051) Yasuo Watanabe (Japan) et al. (6 authors) (I)
- F3.O.2 FINAL RESULTS OF THE CELESTE MILLIMETRE WAVE PROPAGATION EXPERIMENT
(2208) Joël LEMORTON (France) (I)
- F3.O.3 MULTIPATH PROPAGATION MEASUREMENTS IN RADIO LINKS AT 40 GHZ
(1490) Manuel García Sánchez (Spain) et al. (3 authors)
- F3.O.4 ANALYSIS OF FLUCTUATIONS PHENOMENA IN COMPLEX MOBILE COMMUNICATION CHANNELS
(1899) Reuven Mazar (Israel) et al. (3 authors)
- F3.O.5 A COMPARISON OF PROPAGATION AT MILLIMETRIC, SUBMILLIMETRIC AND INFRARED WAVELENGTHS
(1509) Chris Gibbins (United Kingdom) (I)
- F3.O.6 LASER BEAMS BEHAVIOR UNDER THE CONDITIONS OF TURBULENCE INTERMITTENCE IN THE ATMOSPHERE AND FRACTAL-LIKE STRUCTURE OF INTENSITY FLUCTUATIONS
(1039) Tatiana Arsenyan (Russia) et al. (3 authors)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- F3.P.1 NOISE MEASUREMENTS OF INDIVIDUALLY PACKAGED 70 GHZ RADIO ASTRONOMICAL AMPLIFIERS FOR THE PLANCK SATELLITE MISSION
(107) Pekka Sjoman (Finland) et al. (3 authors)
- F3.P.2 ELECTRODYNAMIC CRITERION OF SMOOTHNESS AS EXPANDED RAYLEIGH_S CRITERION
(116) Ruslan Vorobjov (Ukraine) et al. (2 authors)
- F3.P.3 DETERMINATION OF SUBMILLIMETER ATMOSPHERIC OPACITY AT
(2202) Arline M. Melo (Brazil) et al. (7 authors)

F4 POINT TO MULTIPOINT PROPAGATION MODELLING (I)

Joel Lemorton (France) and Marlene S. Pontes (Brazil)

Oral session

Wednesday, August 21, 2002 - morning

Room: 0.9 Athens

F4.O.1 USING GEOGRAPHICAL INFORMATION SYSTEMS TO PREDICT COVERAGE IN BROADBAND WIRELESS SYSTEMS

(2238) Charles W. Bostian (United States of America) et al. (3 authors) (I)

F4.O.2 THE CONCEPT OF EFFECTIVE PATH LENGTH FACTOR IN THE PREDICTION OF RAIN ATTENUATION IN TERRESTRIAL LINKS

(774) Alexandre Timoteo da Costa (Brazil) et al. (2 authors)

F4.O.3 RESULTS OF A LONG-TERM CONCURRENT MEASUREMENT OF RAIN RATE AND RAIN ATTENUATION AT 38 GHZ

(1017) Vaclav Kvicera (Czech Republic) et al. (2 authors)

F4.O.4 A GENERIC MODEL FOR PROPAGATION THROUGH VEGETATION

(1873) Andrew Seville (United Kingdom) et al. (7 authors)

F4.O.5 PROPAGATION OF RADIOWAVE FOR LMDS SYSTEMS

(2257) Hervé Sizun (France) (I)

F4.O.6 MULTIMEDIA WIRELESS COMMUNICATION SYSTEMS AT MULTI-WAVELENGTHS PERTAINING TO INFORMATION TECHNOLOGY

(173) Jitendranath Bera (India) et al. (3 authors)

F5 MICROWAVE PASSIVE REMOTE SENSING (I)
Ed Westwater (USA) and Adriano Camps (Spain)

Oral session Friday, August 23, 2002 - afternoon Room: 0.9 Athens

- F5.O.1 (2082) HYDROLOGICAL IMAGING USING AIRBORNE POLARIMETRIC MICROWAVE RADIOMETRY
Albin Gasiewski (United States of America) et al. (5 authors) (I)
- F5.O.2 (160) SEA SURFACE RADIOMETRIC OBSERVATIONS AT L-BAND: WIND SPEED SENSITIVITY DERIVED FROM WISE 2000 AND 2001
Adriano Camps (Spain) et al. (15 authors) (I)
- F5.O.3 (9) REMOTE SENSING AT L-BAND WITH THE SYNTHETIC APERTURE RADIOMETER, ESTAR
David Le Vine (United States of America) (I)
- F5.O.4 (1075) ADVANCED INSTRUMENTS
Niels Skou (Denmark) (I)
- F5.O.5 (2055) TWO DIMENSIONAL AIRBORNE INTERFEROMETRIC RADIOMETER (HUT-2D)
Kimmo Rautiainen (Finland) et al. (3 authors) (I)
- F5.O.6 (1238) RECENT ADVANCES IN MICROWAVE PASSIVE REMOTE SENSING OF VEGETATION
Paolo Pampaloni (Italy) et al. (4 authors) (I)
- F5.O.7 (146) REMOTE SENSING OF THE ATMOSPHERE USING MICROWAVE RADIOMETERS
Stephen English (United Kingdom) (I)
- F5.O.8 (421) PASSIVE POLARIMETRIC REMOTE SENSING OF THE OCEAN SURFACE: THE EFFECTS OF SURFACE ROUGHNESS AND WHITECAPS
Steven C. Reising (United States of America) et al. (3 authors) (I)
- F5.O.9 (220) OBSERVATIONS OF WATER VAPOR FROM SURFACE-BASED MICROWAVE RADIOMETERS
Edgeworth R. Westwater (United States of America) (I)
- F5.O.10 (583) GROUND-BASED REMOTE SENSING OF CLOUD LIQUID WATER
Susanne Crewell (Germany) et al. (2 authors) (I)

Poster session Thursday, August 22, 2002 - P2 Room: Expo Foyer

- F5.P.1 (2152) ERROR ANALYSIS OF A DOA ESTIMATOR FOR PCL USING THE CRAMER-RAO BOUND THEOREM
Kerim Say (United States of America) et al. (4 authors)
- F5.P.2 (2153) AMBIGUITY FUNCTION ANALYSIS OF DAB WAVEFORM FOR PCL
Abdulkadir Guner (United States of America) et al. (4 authors)
- F5.P.3 (2154) PCL SYSTEM RECEIVER LOCATION CONSIDERING TERRAIN AND ATMOSPHERIC EFFECTS
Carlos Meier Hoyuela (United States of America) et al. (4 authors)
- F5.P.4 (2155) EVALUATION AND ANALYSIS OF ARRAY ANTENNAS FOR PCL SYSTEMS
Baris Calikoglu (United States of America) et al. (4 authors)
- F5.P.5 (2182) SOPHISTICATED DIRECTION OF ARRIVAL ESTIMATION METHODS IN PASSIVE COHERENT LOCATORS
Ahmet Ozcetin (United States of America) et al. (5 authors)

F6 **MICROWAVE ACTIVE REMOTE SENSING (I)**
Paolo Pampaloni (Italy) and Jouni Pulliainen (Finland)

Oral session *Friday, August 23, 2002 - morning* *Room: 0.9 Athens*

- F6.O.1
(455) ACTIVE MICROWAVE REMOTE SENSING OF ICE AND SNOWCOVER
Christian Mätzler (Switzerland) et al. (3 authors)
- F6.O.2
(1289) RADAR REMOTE SENSING OF SNOW IN BOREAL AREAS
Martti Hallikainen (Finland) et al. (5 authors) (I)
- F6.O.3
(1645) SCATTERING OF WAVES BY ROUGH SURFACES AND VEGETATION BASED ON THREE
DIMENSIONAL NUMERICAL SIMULATIONS
Leung Tsang (United States of America) et al. (5 authors) (I)
- F6.O.4
(1200) INFERRING SOIL MOISTURE AND VEGETATION PARAMETERS FROM AIRBORNE AND
SPACEBORNE RADAR DATA
Jakob Van Zyl (United States of America) et al. (3 authors) (I)
- F6.O.5
(967) DUAL-LOW-FREQUENCY RADAR FOR SOIL MOISTURE UNDER VEGETATION AND AT-DEPTH
Mahta Moghaddam (United States of America) et al. (4 authors)
- F6.O.6
(1010) VHF-BAND SYNTHETIC APERTURE RADAR FOR FOREST STEM VOLUME APPLICATIONS
Lars Ulander (Sweden) et al. (5 authors) (I)
- F6.O.7
(504) SIMULATING BACKSCATTERING FROM CROPS AND FORESTS: A COMPARISON OF COHERENT
AND INCOHERENT APPROACHES WITH EXPERIMENTAL DATA
Piero Bruscaglioni (Italy) et al. (5 authors) (I)

Poster session *Thursday, August 22, 2002 - P2* *Room: Expo Foyer*

- F6.P.1
(1446) SEMI-EMPIRICAL MODEL OF THE POLARIMETRIC RADAR RESPONSES FROM SOIL SURFACES
Yisok Oh (Korea (South)) et al. (3 authors)

F7 POLARIMETRIC AND INTERFEROMETRIC TECHNIQUES IN REMOTE SENSING (I)

Shawn R. Cloude (UK) and Alberto Moreira (Germany)

Oral session Thursday, August 22, 2002 - morning Room: 0.9 Athens

- F7.O.1 RADAR POLARIMETRY AND INTERFEROMETRY: PAST, PRESENT AND FUTURE TRENDS
(584) Wolfgang Boerner (United States of America) et al. (2 authors) (I)
- F7.O.2 POLARIMETRIC INTERFEROMETRY IN FORESTRY APPLICATIONS: A REVIEW
(589) Shane Cloude (United Kingdom) et al. (4 authors) (I)
- F7.O.3 POLARIMETRIC SAR INTERFEROMETRY WITH A PASSIVE POLARIMETRIC MICRO-SATELLITE
(1262) CONCEPT Alberto Moreira (Germany) et al. (3 authors) (I)
- F7.O.4 THE USE OF POLARIMETRIC AND INTERFEROMETRIC SAR DATA IN FLOODPLAIN MAPPING
(1202) Jakob Van Zyl (United States of America) et al. (2 authors) (I)
- F7.O.5 POLARIMETRIC AND INTERFEROMETRIC POTENTIAL OF THE PALSAR/ALOS
(1101) Masanobu Shimada (Japan) et al. (2 authors) (I)
- F7.O.6 POLARIMETRY ACTIVITIES IN RADAR REMOTE SENSING AT IRCTR-TUDELFT
(609) Leo Ligthart (The Netherlands) et al. (2 authors) (I)
- F7.O.7 DEFORMATION MEASUREMENT WITH REPEAT PASS AIRBORNE INTERFEROMETRY
(579) Jos Groot (The Netherlands)

Poster session Thursday, August 22, 2002 - P2 Room: Expo Foyer

- F7.P.1 MODELING OF "INSTANTANEOUS" ESTIMATION OF RADAR OBJECT BACK-SCATTERING MATRIX
(1956) AND CO-ORDINATE PARAMETERS A.N. Surkov (Russia) et al. (5 authors)
- F7.P.2 REALIZABILITY OF OPTIMUM POLARIZATION STATES PROVIDED BY THE TARGET
(1971) COVARIANCE MATRIX Dmitri Moiseev (The Netherlands) et al. (5 authors)
- F7.P.3 CHARACTERIZATION OF DEPOLARIZING BEHAVIOR OF RADAR TARGETS; INTRODUCTION OF
(1972) THE DEGREE OF DOPPLER POLARIMETRIC COUPLING Dmitri Moiseev (The Netherlands) et al. (4 authors)

F8 REMOTE SENSING OF INLAND AND COASTAL WATERS (I)

Arnold Dekker (Australia) and Tommy Lindell (Sweden)

Oral session Thursday, August 22, 2002 - afternoon Room: 0.9 Athens

- F8.O.1 HIGH FREQUENCY CROSS SECTIONS OF THE OCEAN SURFACE -- COMPARISONS AND
ENHANCEMENTS
(1510) Eric Gill (Canada) et al. (2 authors)
- F8.O.2 MODELING OF BACKSCATTERING OF RADAR SIGNALS FROM THE SEA SURFACE AT KU- AND
C-BANDS
(463) Alexander Voronovich (United States of America) et al. (2 authors) (I)
- F8.O.3 LONG TERM TREND OF OCEAN SURFACE NORMAILZED RADAR CROSS SECTION OBSERVED BY
TRMM PRECIPITATION RADAR
(192) Ken'ichi Okamoto (Japan) et al. (3 authors)
- F8.O.4 CORRELATION OF SEA-SURFACE TEMPERATURE AND RAIN HEIGHT: A STUDY RELATING TO
CORRECTION OF SEAWINDS SCATTEROMETER DATA FOR RAIN
(2091) Richard Moore (United States of America) et al. (3 authors)
- F8.O.5 ON THE PROBLEM OF DOPPLER SPECTRUM OF MICROWAVE SIGNAL AT SMALL
(403) Evgeny Meshkov (Russia) et al. (2 authors)
- F8.O.6 DEPENDENCE OF AN EFFECTIVE REFLECTION COEFFICIENT
(841) Vladimir Karaev (Russia) et al. (3 authors)

Poster session Thursday, August 22, 2002 - P2 Room: Expo Foyer

- F8.P.1 A NEW TECHNIQUE FOR ESTIMATING THE SPECTRUM OF SAR IMAGES OF THE OCEAN
(848) Mikhail Kanevsky (Russia)
- F8.P.2 COMPARISON OF MULTIPLE WAVELENGTH CLOUD RADAR OBSERVATIONS IN THE BBC
CAMPAIGN
(1783) Alexander Hassiotis (The Netherlands) et al. (5 authors)

F9 REMOTE SENSING OF GREEN HOUSE GASES (I)

Haruhisa Simoda (Japan) and Thuy LeToan (France)

Oral session

Wednesday, August 21, 2002 - afternoon

Room: 0.9 Athens

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| F9.O.1
(1682) | OBSERVATION OF GREENHOUSE GASES BY ADEOS/IMG
Makoto Suzuki (Japan) et al. (3 authors) (I) |
| F9.O.2

(715) | DEVELOPMENT OF SUPERCONDUCTING SUBMILLIMETER-WAVE LIMB-EMISSION SOUNDER (JEM/SMILS) ABOARD THE INTERNATIONAL SPACE STATION FOR MONITORING STRATOSPHERIC OZONE LAYER
Takeshi Manabe (Japan) et al. (11 authors) |
| F9.O.3
(1908) | MW/SUB-MM SOUNDING FROM GEOSTATIONARY ORBIT
Bizzarro Bizzarri (Italy) et al. (3 authors) |
| F9.O.4

(1550) | GROUND-BASED GPS RECEIVER AND MICROWAVE RADIOMETER TO CHARACTERISE WATER VAPOUR OF PRECIPITATION EVENTS
Patrizia Basili (Italy) et al. (6 authors) |
| F9.O.5

(1904) | ACTIVE AND PASSIVE MICROWAVE SENSING OF SOIL MOISTURE THROUGH CORN FIELDS OF VARYING DENSITY
Roger Lang (United States of America) et al. (6 authors) |
| F9.O.6

(1918) | A FAST TANGENT-LINEAR FORWARD RADIATIVE TRANSFER MODEL FOR MICROWAVE RADIANCE ASSIMILATION
Alexander Voronovich (United States of America) et al. (3 authors) |
| F9.O.7

(2040) | TEMPERATURE SENSITIVITY OF SUB-Y-TYPE ANTENNA ARRAY FOR HIGH ANGULAR RESOLUTION INTERFEROMETRIC RADIOMETER SYSTEM
Yong-Hoon Kim (Korea) et al. (2 authors) |
| F9.O.8
(2228) | ATMOSPHERIC PHASE CORRECTION AT THE IRAM OBSERVATORIES
Michael Bremer (France) |

FG WAVE PROPAGATION FOR SATELLITE NAVIGATION AND MOBILE SERVICES (I)

Bertram Arbesser-Rastburg (F, The Netherlands) and David V. Rogers (F, Canada)

Oral session

Tuesday, August 20, 2002 - morning

Room: 0.9 Athens

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| FG.O.1
(1445) | PROPAGATION EFFECTS AND SATELLITE RADIO DESIGN
Wolfhard Vogel (United States of America) et al. (2 authors) (I) |
| FG.O.2
(610) | CHANNEL CORRELATION AND POWER CONTROL IN MEO SATELLITE CONSTELLATION
Axel Jahn (Germany) (I) |
| FG.O.3
(1196) | STATISTICAL CHARACTERIZATION OF LAND MOBILE-SATELLITE PROPAGATION ENVIRONMENTS USING A PHOTOGRAMMETRIC TECHNIQUE
Lars Erling Bråten (Norway) et al. (3 authors) (I) |
| FG.O.4
(1676) | BLOCKAGE AND MULTIPATH MODELING FOR THE MULTI-SATELLITE
Fernando Perez Fontan (Spain) (I) |
| FG.O.5
(1630) | TOTAL ELECTRON CONTENT EFFECTS ON GNSS AUGMENTATION SYSTEMS
John Klobuchar (United States of America) et al. (5 authors) (I) |
| FG.O.6
(1476) | STUDY OF THE OBLIQUITY FACTOR ERROR IN SLANT TO VERTICAL AND VERTICAL TO SLANT IONOSPHERIC DELAY CONVERSION
Sandro M. Radicella (Italy) et al. (2 authors) (I) |
| FG.O.7
(2157) | THE EFFECTS OF IONOSPHERIC SCINTILLATION ON TRANSIT-SATELLITE MEASUREMENT OF TOTAL ELECTRON CONTENT
Dennis Knepp (United States of America) (I) |
| FG.O.8
(1539) | ANALYSIS OF MODELING EFFORTS AND EXPERIMENTAL TECHNIQUES FOR IONOSPHERIC SCINTILLATIONS ASSESSMENT
Biagio Forte (Italy) et al. (3 authors) (I) |
| FG.O.9
(1874) | IMPROVED IONOSPHERIC CORRECTION FOR DUAL FREQUENCY GPS
Rigas Ioannides (England, U.K.) et al. (2 authors) (I) |
| FG.O.10
(2176) | TOTAL ELECTRON CONTENT BEHAVIOR AT HIGH LATITUDES DURING GEOMAGNETIC STORMS
Norbert Jakowski (Germany) et al. (3 authors) |

FP WAVE PROPAGATION AND REMOTE SENSING (C,P)

M. T. Hallikainen (Finland)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- | | |
|-------------------|--|
| FP.P.1
(120) | NEAR GRAZING INCIDENCE POLARIZATION DEPENDENT BACKSCATTER CROSS SECTIONS OF COMPOSITE RANDOM ROUGH SURFACES
Ezekiel Bahar (United States of America) et al. (2 authors) |
| FP.P.2
(141) | EVALUATION OF EIGHT SCINTILLATION MODELS
Charles Mayer (United States of America) |
| FP.P.3
(194) | STATISTICAL INDOOR PROPAGATION ANALYSIS FOR BROADBAND PERSONAL AREA NETWORKS
Philippe De Doncker (Belgium) et al. (3 authors) |
| FP.P.4
(420) | MODELING OF RADAR LAND CLUTTER MAP FOR SMALL GRAZING ANGLES
Gennady Kulemin (Ukraine) et al. (2 authors) |
| FP.P.5
(444) | RAIN ATTENUATION AT 18 GHZ OVER AN INDIAN TROPICAL EASTERN STATION
S.K. Sarkar (India) et al. (6 authors) |
| FP.P.6
(462) | PROPAGATION OF WAVES IN A FOREST : A TWO DIMENSIONAL FULL WAVE APPROACH
Damien De Badereau (France) et al. (3 authors) |
| FP.P.7
(1034) | A STUDY ON THE EFFECTS OF SATELLITE DIVERSITY ON KA-BAND RAIN ATTENUATION IN THREE EARTH-SPACE PATHS
Yasuyuki Maekawa (Japan) |
| FP.P.8
(1287) | REDUCTION OF MULTIPATH EFFECTS ON MICROWAVE LOS LINK OVER SEA USING DIVERSITY TECHNIQUES
R Bera (India) et al. (3 authors) |
| FP.P.9
(1471) | DEVELOPMENT OF A SPATIAL INTEFEROMETER FOR INVESTIGATING ATMOSPHERIC TURBULENCE AT KA BAND FREQUENCIES
Mark Evans (United Kingdom) et al. (3 authors) |
| FP.P.10
(1488) | MODAL TRANSMISSION-LINE METHOD APPLIED TO RADIO WAVE PROPAGATION THROUGH PERIODIC WALLS
Sava Savov (The Netherlands) et al. (2 authors) |
| FP.P.11
(1789) | DEVELOPMENT OF A CLOUD PROFILING FM-CW RADAR AT 94 GHZ
Toshiaki Takano (Japan) et al. (7 authors) |
| FP.P.12
(2139) | WAVES DEPOLARIZATION PREDICTION BASED ON NUMERICAL APPROACH
R. TALHI (France) et al. (5 authors) |
| FP.P.13
(2191) | GENERALISED MODEL OF THE SATCOMM CHANNEL FOR APPLICATIONS TO FADE COUNTERMEASURES
Boris Gremont (England) |
| FP.P.14
(109) | TEST ARRANGEMENTS FOR A MOBILE MILLIMETER WAVE BATTLEFIELD RADAR
Pekka Eskelinen (Finland) et al. (5 authors) |

Commission F

URSI GA 2002 - Oral and Poster Sessions

FP.P.15 A NEW DATABASE OF ITALSAT ATTENUATION DATA FOR TROPOSPHERIC CHANNEL
SIMULATIONS IN GENERIC LOCATIONS
(1804) Luigi Valbonesi (Italy)

Commission G - IONOSPHERIC RADIO AND PROPAGATION

Chair: P. J. Wilkinson (Australia)

Vice-chair: C. Hanuise (France)

G1i IONOSPHERIC EFFECTS ON HF PROPAGATION (I, C)

Paul S. Cannon (UK) and Louis Bertel (France)

Oral session

Tuesday, August 20, 2002 - afternoon

Room: 0.4 Brussels

- | | |
|-------------------|---|
| G1i.O.1
(1837) | HF SOUNDERS
Bodo Reinisch (United States of America) (I) |
| G1i.O.2
(395) | CHARACTERISATION AND MODELLING OF THE HF COMMUNICATIONS CHANNEL
Paul Cannon (United Kingdom) et al. (3 authors) |
| G1i.O.3
(785) | MODELLING OF THE WIDEBAND IONOSPHERIC HF CHANNELS
Nikolay Zernov (United Kingdom) et al. (3 authors) (I) |
| G1i.O.4
(1019) | THE ROBUST NVIS MODES OF THE DRM SYSTEM
Andy Giefer (United Kingdom) (I) |
| G1i.O.5
(738) | THE DIRECTIONAL ASPECT OF ATMOSPHERIC NOISE AND ITS IMPACT UPON HF COMMUNICATION SYSTEMS
Christopher Coleman (Australia) |
| G1i.O.6
(1518) | HF RADIO PROPAGATION AT HIGH LATITUDES: OBSERVATIONS AND PREDICTIONS FOR QUIET AND DISTURBED CONDITIONS
Bjørn Jacobsen (Norway) et al. (5 authors) |

G1ii	IONOSPHERIC EFFECTS ON HF PROPAGATION (I, C)		
	Paul S. Cannon (UK) and Louis Bertel (France)		
	<i>Oral session</i>	<i>Wednesday, August 21, 2002 - morning</i>	<i>Room: 0.4 Brussels</i>
G1ii.O.1 (503)	ANTENNA EFFECTS ON HF SYSTEMS Louis BERTEL (France) et al. (2 authors)		
G1ii.O.2 (1217)	ANALYTIC AND NUMERICAL RAY TRACING TECHNIQUES AND THEIR APPLICATION TO HF PROPAGATION VIA THE IONOSPHERE Peter Dyson (Australia) et al. (3 authors) (I)		
G1ii.O.3 (1187)	EQUATORIAL SPREAD DOPPLER CLUTTER MITIGATION FOR OTH HF RADAR VIA RANK REDUCING SPACETIME DEMODULATION TECHNIQUE Dinesh Ramakrishnan (United States of America) et al. (2 authors)		
G1ii.O.4 (1337)	EFFECT OF HORIZONTAL IONOSPHERIC STRUCTURE ON HF RADIO SYSTEMS John Bennett (Australia) et al. (2 authors)		
G1ii.O.5 (2056)	HF DIRECTION FINDING WITH A VERTICAL ARRAY OF COLLOCATED LOOP ANTENNAS Guy Le Bouter (France) et al. (2 authors)		
G1ii.O.6 (1130)	OBSERVATIONS OF THE TIME-OF-FLIGHT AND DIRECTION OF ARRIVAL OF HF RADIO SIGNALS ON A PATH AFFECTED BY THE MID-LATITUDE TROUGH Alan Stocker (United Kingdom) et al. (3 authors)		

G2 OPERATIONAL IONOSPHERIC MODELS INCLUDING DATA INGESTION (I, C)

D. Bilitza (USA) and K. Igarashi (Japan)

Oral session

Wednesday, August 21, 2002 - afternoon

Room: 0.4 Brussels

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|-------------------|---|
| G2.O.1
(1226) | A REVIEW OF THE DEVELOPMENT OF A GLOBAL ASSIMILATIVE IONOSPHERIC MODEL
Brian Wilson (United States of America) et al. (5 authors) |
| G2.O.2
(861) | DATA ASSIMILATION OF IONOSPHERIC RADIO OCCULTATION MEASUREMENTS
Matthew Angling (United Kingdom) et al. (2 authors) |
| G2.O.3
(1945) | UPDATING IRI WITH IONOSONDE DATA _ REVIEW AND RECENT STUDIES
Dieter Bilitza (United States of America) et al. (3 authors) (I) |
| G2.O.4
(1480) | IONOSPHERIC MODEL DEVELOPMENTS FOR SATELLITE NAVIGATION AND COMMUNICATION APPLICATIONS
Sandro M. Radicella (Italy) et al. (5 authors) (I) |
| G2.O.5
(1253) | MODULATION OF ELECTRON DENSITY MODELS TO TAKE INTO ACCOUNT SMALLER SCALE STRUCTURES
Reinhart Leitinger (Austria) et al. (3 authors) |
| G2.O.6
(2174) | A TOPSIDE IONOSPHERE/PLASMASPHERE MODEL FOR OPERATIONAL APPLICATIONS
Norbert Jakowski (Germany) et al. (4 authors) |
| G2.O.7
(887) | REAL-TIME IONOSPHERE
Suman Ganguly (United States of America) et al. (2 authors) (I) |
| G2.O.8
(2144) | AN ACTIVE DATABASE FOR DIGITAL IONOSONDE NETWORKS
Grigori Khmyrov (United States of America) et al. (6 authors) (I) |
| G2.O.9
(491) | IONOSPHERIC IRREGULARITY DISTRIBUTION EXPERIENCED AND DESCRIBED BY GPS REMOTE SENSING AND NAVIGATION IN LOW-EARTH ORBIT
Klemens Hocke (Japan) et al. (2 authors) (I) |
| G2.O.10
(2282) | DATA COVERAGE FOR D-REGION MODELLING
Martin Friedrich (Austria) |

G3

OPEN SESSION AND LATEST RESULTS (I, C)

B.W. Reinisch (USA) and Anna Belehaki (Greece)

Oral session

Saturday, August 24, 2002 - morning

Room: 0.4 Brussels

- G3.O.1
(943) ADVANCED TECHNIQUES FOR INCOHERENT SCATTER RADAR
Frank Lind (United States of America) et al. (5 authors)
- G3.O.2
(1800) MAGNETOSPHERIC CONVECTION ABOVE THE NORTHERN POLAR CAP AS SEEN BY CLUSTER IN
COMPARISON WITH GROUND--BASED RADAR DATA
Matthias F"orster (Germany) et al. (9 authors)
- G3.O.3
(1915) POLARIZATION OF FIELD ALIGNED PROPAGATING ECHOES IN THE PLASMASPHERE MEASURED BY
RPI
Gary Sales (United States of America) et al. (4 authors)
- G3.O.4
(1106) ESTIMATION OF IONOSPHERIC PROFILERS AS RECONSTRUCTION TOOLS
J.C. Jodogne (Belgium) et al. (2 authors)
- G3.O.5
(809) NIGHTTIME IONISATION ENHANCEMENTS OBSERVED WITH ATHENS DIGISONDE
Ioanna Tsagouri (Greece) et al. (2 authors)
- G3.O.6
(1194) DENSITY MEASUREMENTS ABOVE AND WITHIN A SPORADIC-E LAYER USING IMPEDANCE
PROBES AND LANGMUIR PROBES
Christian Steigies (United States of America) et al. (6 authors)
- G3.O.7
(16) THE DEVELOPMENT OF A NEURAL NETWORK BASED BOTTOMSIDE PROFILE MODEL FOR THE
IONOSPHERE OVER GRAHAMSTOWN, SOUTH AFRICA
Lee-Anne McKinnell (South Africa) et al. (2 authors)

GF

TRANSIONOSPHERIC SIGNAL DEGRADATION (I,C)

Reinhart Leitinger (G, Austria) and Manuel Cervera (G, Australia)

Oral session

Monday, August 19, 2002 - afternoon

Room: 0.4 Brussels

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| GF.O.1
(513) | IONOSPHERIC PROPAGATION DEGRADATION PROBABILITIES FOR EARTH-SPACE LINKS
Peter Bradley (United Kingdom) |
| GF.O.2
(1222) | GPS TEC OBSERVATIONS OF THE BASTILLE DAY SUDDEN IONOSPHERIC DISTURBANCES
Ho-Fang Tsai (R.O. China) et al. (3 authors) |
| GF.O.3
(534) | EFFECTS OF LARGE MAGNETIC STORMS ON COMMUNICATION AND GPS NAVIGATION SYSTEMS
AT MIDDLE AND EQUATORIAL LATITUDES
Santimay Basu (United States of America) et al. (2 authors) |
| GF.O.4
(1252) | THE EFFECT OF TRAVELING IONOSPHERIC DISTURBANCES (TIDS) ON GNSS USER SYSTEMS
Markus Rieger (Austria) et al. (2 authors) |
| GF.O.5
(2067) | PRELIMINARY ANALYSIS OF THE EFFECTS OF IONOSPHERIC SCINTILLATION ON THE MTSAT
SATELLITE-BASED AUGMENTATION SYSTEM (MSAS)
Robert Conker (United States of America) et al. (4 authors) |
| GF.O.6
(1832) | ANALYSIS OF THE IONOSPHERIC INFLUENCE ON SIGNAL PROPAGATION AND TRACKING OF
BINARY OFFSET CARRIER (BOC) SIGNALS FOR GALILEO AND GPS
Thomas Pany (Germany) et al. (3 authors) |
| GF.O.7
(1496) | SOME FINE EFFECTS IN PROPAGATION PROBLEM FOR TRANSIONOSPHERIC SATELLITE
RADIOLINKS
Vadim Gherm (United Kingdom) et al. (4 authors) |
| GF.O.8
(1697) | ANALYSIS OF PROBLEMS THAT COULD ARISE WITH GPS IONOSPHERIC SCINTILLATION
MEASUREMENTS
Biagio Forte (Italy) et al. (2 authors) |
| GF.O.9
(1782) | MULTIPATH AND IONOSPHERIC FLUCTUATIONS. A COMPARISON OF THE STATISTICAL
PROPERTIES OF THE RECEIVED SIGNALS
Yannick Beniguel (France) |
| GF.O.10
(70) | PREDICTION OF EQUATORIAL IONOSPHERIC BUBBLES IN THE POST-SUNSET HOURS
Ashik Paul (India) |

**GH1 IONOSPHERIC MODIFICATION BY HIGH POWER RADIO WAVES:
COUPLING OF PLASMA PROCESSES (I,C)**

Sa. Basu (G, USA) and T.B. Leyser (H, Sweden)

Oral session

Tuesday, August 20, 2002 - morning

Room: 0.4 Brussels

- GH1.O.1 ENHANCED AIRGLOW BY HIGH FREQUENCY PUMPING WITH THE EISCAT-HEATING FACILITY
(815) AND OBSERVED BY THE MULTI-STATION AURORAL LARGE IMAGING SYSTEM (ALIS)
Thomas Leyser (Sweden) et al. (5 authors) (I)
- GH1.O.2 INSIGHTS FROM OPTICAL EMISSIONS, INTO PHYSICS OF HIGH POWER RADIO WAVE
(2141) INTERACTIONS WITH PLASMAS
Herbert C. Carlson (United States of America) (I)
- GH1.O.3 HF-PUMP-INDUCED ELECTRON HEATING AND ARTIFICIAL AURORA AT HIGH LATITUDES:
(1347) ASPECT ANGLE DEPENDENCE.
Michael T. Rietveld (Germany) et al. (5 authors) (I)
- GH1.O.4 DESCRIPTION OF THE HAARP GAKONA FACILITY AND SOME RESULTS FROM RECENT
(893) RESEARCH
Edward Kennedy (United States of America) et al. (2 authors) (I)
- GH1.O.5 ELF/VLF WAVE-INJECTION VIA MODULATED HF HEATING OF THE IONOSPHERE
(1643) Umran Inan (United States of America) (I)
- GH1.O.6 EFFICIENCY SCALING FOR INOSPHERIC ELF/VLF GENERATION
(936) Konstantinos Papadopoulos (United States of America) et al. (6 authors)
- GH1.O.7 STIMULATED ELECTROMAGNETIC EMISSIONS - A REVIEW OF RESULTS ACHIEVED
(2086) Bo Thidé (Sweden) (I)
- GH1.O.8 CONVERSION OF TRAPPED UPPER HYBRID OSCILLATIONS AND Z MODE AT A PLASMA DENSITY
(1870) IRREGULARITY
Jan-Ove Hall (Sweden) et al. (2 authors)
- GH1.O.9 GENERATION OF DENSITY IRREGULARITIES AND WHISTLER WAVES BY POWERFUL HF WAVES
(216) IN THE POLAR IONOSPHERE
Spencer Kuo (United States of America) et al. (3 authors)
- GH1.O.10 THE TIME CONSTANT OF RESPONSE OF PMSE TO IONOSPHERIC HEATING
(1060) Evgenia Belova (Sweden) et al. (4 authors)
- GH1.O.11 HAARP HIGH POWER EXPERIMENTS AND OBSERVATIONS OF IONOSPHERIC INTERACTIONS
(1185) Paul Rodriguez (United States of America) et al. (7 authors)

GH2		TOPSIDE IONOSPHERE AND PLASMASPHERE (I,C)	
		J. Foster (G, USA) and I. Kimura (H, Japan)	
		<i>Oral session</i>	<i>Monday, August 19, 2002 - morning</i>
		<i>Room: 0.4 Brussels</i>	
GH2.O.1	DIFFERENT RESPONSE OF THE AURORAL IONOSPHERE AT ALTITUDES 800 KM AND 300 KM TO THE SOLAR WIND PERTURBATIONS		
(507)	Ludmila Makarova (Russia) et al. (2 authors)		
GH2.O.2	COMPARISON OF IONOSPHERIC IONIZATION MEASUREMENTS OVER ATHENS USING IONOSONDE AND GPS DERIVED TEC VALUES		
(758)	Anna Belehaki (Greece) et al. (2 authors)		
GH2.O.3	PROBING TOPSIDE IONOSPHERE/PLASMASPHERE STRUCTURE DURING GEOMAGNETIC DISTURBANCES		
(1411)	John C. Foster (United States of America) et al. (3 authors)		
GH2.O.4	IONOSPHERIC ELECTRON CONCENTRATION MAPPING USING GPS OVER EUROPE AND USA DURING THE STORM OF JULY 2000		
(1375)	Cathryn Mitchell (United Kingdom) et al. (2 authors)		
GH2.O.5	NEW CONTRIBUTIONS TO IONOSPHERIC RECONSTRUCTIONS FROM LEO-GPS MEASUREMENTS		
(1160)	Massimo Materassi (Italy) et al. (5 authors)		
GH2.O.6	ANOMALOUS ELECTRON THERMAL CONDUCTIVITY OF THE PLASMASPHERE AND TOPSIDE IONOSPHERE OBTAINED FROM MODEL/DATA COMPARISONS		
(193)	Anatoli Pavlov (Russia) et al. (3 authors)		
GH2.O.7	ADAPTIVE INTEGRATION TECHNIQUES FOR TOPSIDE INCOHERENT SCATTER USING THE MIDAS-W SOFTWARE RADAR SYSTEM		
(923)	Philip Erickson (United States of America) et al. (2 authors)		

GHEi

SPACE WEATHER EFFECTS ON SYSTEMS (I,C)

G Phil Wilkinson (G, Australia) and H Alain Hilgers (H, The Netherlands)

Oral session

Friday, August 23, 2002 - morning

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GHEi .O.1
(2140)

IONOSPHERIC CORRECTIONS FOR SATELLITE NAVIGATION USING EGNOS
Bertram Arbesser-Rastburg (The Netherlands) (I)

GHEi .O.2
(427)

GENERAL MECHANISMS OF GEOMAGNETICALLY INDUCED CURRENTS IN POWER SYSTEMS
AND PIPELINES
Ari Viljanen (Finland) et al. (3 authors)

GHEi .O.3
(233)

SPACE WEATHER AND THE ELECTRICITY MARKET: A PRELIMINARY ASSESSMENT
Kevin Forbes (United States of America) et al. (2 authors)

GHEi .O.4
(2108)

THE ESA SPACE WEATHER PROGRAMME STUDY AND FOLLOW-UP
Alain Hilgers (The Netherlands) et al. (3 authors) (I)

GHEii

SPACE WEATHER EFFECTS ON SYSTEMS (I,C)

G Phil Wilkinson (G, Australia) and H Alain Hilgers (H, The Netherlands)

Oral session

Friday, August 23, 2002 - afternoon

Room: 0.4 Brussels

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| GHEii.O.1
(1065) | GEOMAGNETICALLY INDUCED CURRENTS AT MID-LATITUDES
Jacko Koen (South Africa) et al. (2 authors) (I) |
| GHEii.O.2
(1768) | MEASUREMENTS OF GEOMAGNETICALLY INDUCED CURRENTS , GICS , IN THE NORWEGIAN POWER GRID.
Evald Sæthre (Norway) et al. (2 authors) (I) |
| GHEii.O.3
(621) | APRIL 2000 STORM: IONOSPHERIC DRIVERS OF LARGE GIC
Antti Pulkkinen (Finland) et al. (5 authors) |
| GHEii.O.4
(1201) | REGIONAL GPS MAPPING OF STORM ENHANCED DENSITY
Anthea Coster (United States of America) et al. (4 authors) |
| GHEii.O.5
(2128) | TWO APPROACHES OF ESTIMATING IONOSPHERIC SPACE WEATHER EFFECTS ON HF COMMUNICATION LINKS COMPARED
Heikki Vanhamäki (Finland) et al. (7 authors) |
| GHEii.O.6
(826) | EFFICIENCY OF THE RUSSIAN GROUND-BASED VLF NAVIGATIONAL SYSTEM UNDER IMPACT OF THE SOLAR PROTON EVENTS
Alexander Shirochkov (Russia) et al. (2 authors) |
| GHEii.O.7
(1020) | INVESTIGATION OF THE SPASE WEATHER EFFECTS USING THE RUSSIA CHIRP SOUNDERS NETWORK
Vladimir Kurkin (Russia) et al. (5 authors) |

GJi NEW APPROACHES TO RADIO SENSING OF THE TERRESTRIAL PLASMA ENVIRONMENT

C. Hanuise (G, France) and J. Roettger (G, Germany)

Oral session

Thursday, August 22, 2002 - morning

Room: 0.4 Brussels

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| GJi .O.1
(613) | LOFAR: THE LOW FREQUENCY ARRAY
Colin Lonsdale (United States of America) (I) |
| GJi .O.2
(1941) | IONOSPHERIC TOMOGRAPHY METHODS APPLIED TO LOFAR
Gary Bust (United States of America) et al. (3 authors) (I) |
| GJi .O.3
(1795) | PROBING THE IONOSPHERE WITH THE VERY LARGE ARRAY
Rick Perley (United States of America) et al. (2 authors) (I) |
| GJi .O.4
(947) | PASSIVE RADAR AND THE LOW FREQUENCY ARRAY
Frank Lind (United States of America) et al. (2 authors) (I) |
| GJi .O.5
(1637) | SPACE WEATHER STUDIES USING LOW-FREQUENCY IPS OBSERVATIONS
Paul Hick (United States of America) et al. (3 authors) (I) |
| GJi .O.6
(1144) | THE NEW 1420 MHZ DUAL POLARISATION INTERPLANETARY SCINTILLATION (IPS) FACILITY AT EISCAT
Gudmund Wannberg (Sweden) et al. (4 authors) |
| GJi .O.7
(2084) | LOIS - A DEEP SPACE RADAR IN SCANDINAVIA
Bo Thidé (Sweden) (I) |
| GJi .O.8
(52) | CHARACTERISTICS OF LOW LATITUDE BACKSCATTER FROM IONOSPHERIC E AND F REGION FIELD-ALIGNED IRREGULARITIES OBTAINED WITH THE PIURA VHF RADAR
Jorge Chau (Peru) et al. (3 authors) |
| GJi .O.9
(1036) | IDENTIFICATION OF IONOSPHERIC SIGNATURES OF MAGNETOSPHERIC BOUNDARIES BY CLASSIFICATION METHODS
Raphael André (France) et al. (2 authors) |
| GJi .O.10
(392) | IMAGING AURORAL DENSITY STRUCTURE USING TRANSIONOSPHERIC HF WAVES
Gordon James (Canada) et al. (3 authors) |
| GJi .O.11
(625) | REVIEW OF THE RESULTS OF THE SATELLITE RADIO SOUNDING OF THE IONOSPHERE IN THE VICINITY OF THE F-LAYER MAXIMUM
Nick Danilkin (Russia) (I) |

GJii NEW APPROACHES TO RADIO SENSING OF THE TERRESTRIAL PLASMA ENVIRONMENT

C. Hanuise (G, France) and J. Roettger (G, Germany)

Oral session

Thursday, August 22, 2002 - afternoon

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- GJii.O.1 MAY WE ALSO CONTRIBUTE ? AN AMSAT-ITALY CALL FOR INTERNATIONAL COLLABORATION ON IONOSPHERE STUDY
(939) Florio Dalla Vedova (IW2NMB) (Italy)
- GJii.O.2 GENERALIZATION OF RADIOHOLOGRAPHIC METHOD FOR STUDY THE IONOSPHERE, TROPOSPHERE FROM SPACE
(1361) Yuei-An Liou Liou (R.O. China) et al. (4 authors)
- GJii.O.3 RADAR OBSERVATIONS OF POLAR MESOSPHERIC CLOUDS OVER ALASKA DURING SUMMER 2001
(1862) Kelley Michael C. (United States of America) et al. (4 authors)
- GJii.O.4 THE THEORY OF METEOR TRAILS AND IMPLICATIONS FOR RADAR MEASUREMENTS
(394) Meers Oppenheim (United States of America) et al. (4 authors)
- GJii.O.5 PASSIVE VHF RADAR INTERFEROMETER OBSERVATION OF METEOR TRAILS
(933) Melissa Meyer (United States of America) et al. (4 authors)
- GJii.O.6 GROUND CLUTTER SUBTRACTION TECHNIQUES FOR VHF PASSIVE RADAR OBSERVATION OF THE UPPER ATMOSPHERE
(1410) Chucai Zhou (United States of America) et al. (4 authors)

GP1a

GENERAL POSTER SESSION

Elizabeth Blanc (France)

Poster session

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- GP1a.P.1 A SIMPLE MODEL CORRECTION TO ABSORPTION THEORY IN THE REGION OF QUASI
(124) TRANSVERSE PROPAGATION OF RADIO WAVES THROUGH THE IONOSPHERE
Oyedemi Oyekola (Nigeria) et al. (2 authors)
- GP1a.P.2 QUALITATIVE STUDY OF THE SEASONAL BEHAVIOR OF THE IONOSPHERE'S D REGION FROM 3
(498) YEARS OF VLF-LF SIGNALS MONITORING
Hamid Nebdi (Belgium) et al. (3 authors)
- GP1a.P.3 SOME PECULIARITIES OF THE LOWER IONOSPHERE DYNAMICS, CAUSED BY THE MORNING
(500) SOLAR TERMINATOR
Alexander M. Gokov (Ukraine) et al. (2 authors)
- GP1a.P.4 IONOSPHERIC EFFECTS OF THE SIMULTANEOUS PRECIPITATION OF THE SOLAR PROTON AND
(805) RELATIVISTIC ELECTRON FLUXES: THEIR SEPARATION AND EVALUATION
Alexander Shirochkov (Russia) et al. (3 authors)
- GP1a.P.5 LONG-TERM TRENDS OF THE IONOSPHERE AT MID AND HIGH LATITUDE REGIONS
(1797) Lucilla Alfonsi (Italy) et al. (3 authors)
- GP1a.P.6 JUNE 21 2001: EQUATORIAL IONOSPHERE UNDER NON-LOCAL TOTAL ECLIPSE-CHANGES IN TEC
(1551) AND WAVES
Ephrem SAMBOU (Senegal) et al. (5 authors)
- GP1a.P.7 ECLIPSE INDUCED IONOSPHERIC PERTURBATIONS DERIVED FROM VLF-LF PROPAGATION
(765) EXPERIMENTS
Patrick Lassudrie-Duchesne (France) et al. (2 authors)
- GP1a.P.8 IONOSPHERIC MEASUREMENTS DURING THE TOTAL SOLAR ECLIPSE OF 11 AUGUST 1999
(1649) Harish Chandra (India) et al. (5 authors)
- GP1a.P.9 CONJUGATE EFFECTS OF JUNE 21, 2001 SOLAR ECLIPSE IN RADIO NOISE OF THE MIDLATITUDE
(1698) IONOSPHERE
Sergiy Musatenko (Ukraine) et al. (7 authors)
- GP1a.P.10 THE DETECTION OF ATMOSPHERIC GRAVITY WAVES (AGWS) GENERATED BY THE TOTAL
(1747) SOLAR ECLIPSE OF AUGUST 1999 BY MEANS OF AN HF DOPPLER TECHNIQUE
Tudor Jones (United Kingdom) et al. (4 authors)
- GP1a.P.11 COMPLEX RADIOPHYSICAL STUDIES OF DYNAMIC PROCESSES IN THE IONOSPHERE DURING
(2278) THE AUGUST 11, 1999 SOLAR ECLIPSE
Leonid F. Chernogor (Ukraine) et al. (4 authors)
- GP1a.P.12 IONOSPHERIC WAVE-LIKE DISTURBANCES (WLD) FOLLOWING THE SEPTEMBER 23, 1998 SOLAR
(2279) FLARE FROM KHARKIV INCOHERENT SCATTER RADAR OBSERVATIONS
Leonid F. Chernogor (Ukraine) et al. (4 authors)
- GP1a.P.13 DYNAMIC PROCESSES IN THE NEAR-EARTH PLASMA DURING SEPTEMBER 25, 1998 MAGNETIC
(2280) STORM FROM KHARKIV INCOHERENT SCATTER RADAR DATA
Leonid F. Chernogor (Ukraine) et al. (4 authors)

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GP1a.P.14 (1786)	PROPOSITION FOR COOPERATIVE OBSERVATION OF CONJUGATE IONOSPHERIC DISTURBANCES DURING SOLAR ECLIPSE DEC 4, 2002 Sergiy Musatenko (Ukraine) et al. (2 authors)
GP1a.P.15 (1293)	SIGNAL STRENGTH RESPONSE TO 11 AUGUST 1999 ECLIPSE EFFECT ON D REGION Davorka Grubor (Yugoslavia) et al. (2 authors)
GP1a.P.16 (499)	MODELLING THE TRANSIONOSPHERIC MF PROPAGATION Donat Blagoveshchensky (Russia) et al. (2 authors)
GP1a.P.17 (1029)	STUDIES ON EQUATORIAL TOTAL ELECTRON CONTENT NEAR SOLAR MAXIMUM ACTIVITY FROM 1998 TO 2000 Wan Salwa Wan Hassan (Malaysia) et al. (5 authors)
GP1a.P.18 (1764)	EFFECT OF INTERPLANETARY MAGNETIC FIELD ON THE EQUATORIAL IONOSPHERE Lilia Sizova (Russia) et al. (3 authors)
GP1a.P.19 (2138)	ON THE ELECTRODYNAMIC VARIABILITY OF THE EVENING LOW-LATITUDE F-REGION Bela Fejer (United States of America)
GP1a.P.20 (1796)	A REVIEW OF HF RADAR MEASUREMENTS IN EQUATORIAL WEST AFRICA Elisabeth Blanc (France) et al. (6 authors)
GP1a.P.21 (1957)	ELECTRON DENSITY AND PROFILE PARAMETERS B0 AND B1 RESPONSE DURING A MAGNETIC DISTURBANCE AT EQUATORIAL LATITUDE Olivier OBROU (Ivory Coast)
GP1a.P.22 (48)	SPACE MOVEMENT OF IONOSPHERIC PLANETARY WAVES IN PARAMETERS OF THE SPORADIC E-LAYER Evgeniy Yu.Zykov (Russia) et al. (3 authors)
GP1a.P.23 (783)	STUDY OF SPORADIC E OCCURRENCES AT DELHI USING MODERN DIGITAL IONOSONDE Veenadhari B (India) et al. (5 authors)
GP1a.P.24 (17)	EFFORTS TO PRODUCE REALISTIC IONOGRAMS FROM ELECTRON DENSITY PROFILES IN THE F1 REGION Lee-Anne McKinnell (South Africa) et al. (2 authors)
GP1a.P.25 (30)	A GENETIC INVERSE METHOD OF IONOSPHERIC PARAMETER INVERSION FROM BACKSCATTER IONOGRAMS Shuguo XIE (P. R. China) et al. (3 authors)
GP1a.P.26 (1028)	BEHAVIOR FEATURES OF THE MID-LATITUDE IONOSPHERE DURING VERY STRONG GEOMAGNETIC DISTURBANCES Geliy Zherebtsov (Russia) et al. (5 authors)
GP1a.P.27 (919)	DIGITAL IONOSONDE OBSERVATIONS OF THE CUSP/CLEFT REGION OF THE IONOSPHERE John MacDougall (Canada) et al. (2 authors)
GP1a.P.28 (1218)	DATA ACQUISITION AND ANALYSIS FOR ADVANCED DIGITAL IONOSONDES John William Wright (United States of America) et al. (4 authors)
GP1a.P.29 (143)	VARIATIONS IN HF DOPPLER RADAR SPECTRA MEASURED AT VERTICAL INCIDENCE Leonid F. Chernogor (Ukraine) et al. (5 authors)

GP1a.P.30 (764)	FRANCOURVILLE NETWORK AS AN EUROPEAN MID-LATITUDE OBSERVATORY OF THE IONOSPHERIC ACTIVITY Thomas FARGES (France) et al. (3 authors)
GP1a.P.31 (1018)	A SOFTWARE FOR AUTOMATIC SCALING OF FOF2 AND MUF(3000)F2 FROM IONOGRAMS Carlo Scotto (Italy) et al. (2 authors)
GP1a.P.32 (1728)	IONOSPHERIC EFFECTS OF THE LEONID METEOR SHOWERS OVER AHMEDABAD Som Sharma (India) et al. (2 authors)
GP1a.P.33 (1923)	DEVELOPMENT OF A PHYSICS-BASED KALMAN FILTER FOR THE IONOSPHERE IN GAIM Ludger Scherliess (United States of America) et al. (4 authors)
GP1a.P.34 (398)	PROPOSED STANDARD PLASMASPHERE-IONOSPHERE MODEL FOR ISO Tamara Gulyaeva (Russia) et al. (2 authors)
GP1a.P.35 (816)	SPATIAL CORRELATION ASSESSMENT OF IONOSPHERIC PARAMETERS FOR LIMITED-AREA MAPPING Iwona Stanislawska (Poland) et al. (4 authors)
GP1a.P.36 (551)	NEURAL NETWORKS AND LONG TERM TRENDS IN FOF2 Allon WV Poole (South Africa) et al. (2 authors)
GP1a.P.37 (1030)	THE GLOBAL NATURAL BACKGROUND NOISE MAP AT TOPSIDE IONOSPHERE OBSERVED BY OHZORA AND AKEBONO SATELLITES IN THE LAST DECADE Takeo YOSHINO (Japan)
GP1a.P.38 (2035)	A NEW IONOSPHERIC INDEX FOR GLOBAL MODELLING OF DAY-TO-DAY FOF2 DISTRIBUTION Shashikala Shastri (India)
GP1a.P.39 (1896)	COMPARISON OF IONOSPHERIC EXPERIMENTAL DATA WITH PREDICTION FROM GIM MODEL Yannick Beniguel (France) et al. (3 authors)
GP1a.P.40 (1803)	A NEW APPROACH FOR INSTANTANEOUS IONOSPHERIC MAPPING IN THE COST271 REGION Marco Pietrella (Italy) et al. (3 authors)
GP1a.P.41 (793)	THE SIMULATION OF HIGH LATITUDE OFF-GREAT CIRCLE PROPAGATION EFFECTS Nikolay Zaalov (United Kingdom) et al. (3 authors)
GP1a.P.42 (863)	THE COMPRESSION, FOCUSING AND INVERSION OF FREQUENCY-MODULATED RADIO-PULSES IN SPACE - TIME REGIONS OF CATASTROPHE TYPES Dmitry V. Rastyagaev (Russia) et al. (5 authors)
GP1a.P.43 (34)	DETERMINING PARAMETERS OF IONOSPHERIC IRREGULARITIES FROM STATISTICAL CHARACTERISTICS OF RADIO WAVES ON AN OBLIQUE SOUNDING PATH Anatoli A. Jjenykh (United States of America) et al. (5 authors)
GP1a.P.44 (833)	MULTIPLE SCATTERING EFFECTS IN IONOSPHERIC RADIO SOUNDING: A NUMERICAL STUDY OF THE TRANSFER EQUATION SOLUTION IN THE SASIRC APPROXIMATION Evgeny S. Kovalenko (Russia) et al. (2 authors)
GP1a.P.45 (834)	PRACTICAL DIAGNOSTICS OF IONOSPHERIC INTERMEDIATE-SCALE IRREGULARITIES BASED ON ADVANCED RADIO SOUNDING TECHNIQUES N.A. Zabotin (Russia) et al. (2 authors)

GP1a.P.46 (118)	RECONSTRUCTION OF THE IONOSPHERIC VERTICAL ELECTRON DENSITY PROFILE USING SATELLITE SIGNAL DOPPLER SHIFT MEASUREMENTS Oleg Tyrnov (Ukraine) et al. (2 authors)
GP1a.P.47 (1419)	STATISTICAL ANALYSIS OF H.F. DIRECTION FINDING ESTIMATIONS Yvon ERHEL (France) et al. (3 authors)
GP1a.P.48 (735)	INFLUENCE OF RANDOM IRREGULARITIES OF THE PROPAGATION MEDIUM ON THE RADAR SIGNAL STRUCTURE Mikhail Tinin (Russia) et al. (3 authors)
GP1a.P.49 (33)	TOWARDS A MODEL OF INCOHERENT SCATTER SIGNAL SPECTRUM WITHOUT AVERAGING OVER SOUNDING RUNS Oleg Bergardt (Russia)
GP1a.P.50 (2125)	FULLY DIGITAL RADIO RECEIVERS FOR SPACE-BORNE AND GROUND-BASED OPERATION Roger Karlsson (Sweden) et al. (4 authors)
GP1a.P.51 (452)	THE TRISTATIC 930 MHZ EISCAT RADAR SYSTEM: A UNIQUE TOOL FOR METEOR/DUST STUDIES Diego Janches (Puerto Rico) et al. (6 authors)
GP1a.P.52 (620)	A MODERN DATA ACQUISITION AND ANALYSIS METHOD FOR THE EISCAT INCOHERENT SCATTER RADARS Baylie Damtie (Finland) et al. (5 authors)
GP1a.P.53 (1604)	ITERATIVE SPECTRUM ANALYSIS: A NEW METHOD FOR DATA PROCESSING AND INTERPRETATION Klaus Bibl (United States of America) et al. (2 authors)
GP1a.P.54 (1813)	DETECTING NARROW, FIELD-ALIGNED SPATIAL STRUCTURES IN THE AURORAL IONOSPHERE USING THE EISCAT SVALBARD RADAR DUAL ANTENNAS AS AN INTERFEROMETER Tom Grydeland (Norway) et al. (6 authors)
GP1a.P.55 (1093)	INCOHERENT SCATTER RADAR STUDY OF THE APRIL 28-29, 2001 STORM AT KHARKIV Vitaly I. Taran (Ukraine) et al. (3 authors)
GP1a.P.56 (832)	STUDY OF THE DECORRELATION OF HF BEAM THROUGH A TURBULENT IONOSPHERE WITH SUPERDARN RADARS Xavier Vallieres (France) et al. (5 authors)
GP1a.P.57 (688)	HF RADAR OBSERVATIONS OF BACKSCATTERED ECHOES INDUCED BY SMALL-SCALE IRREGULARITIES OF SUBAUROAL F2 REGION IONOSPHERE Valery Uryadov (Russia) et al. (4 authors)
GP1a.P.58 (1648)	CHARACTERISTICS OF MEDIUM-SCALE TRAVELLING IONOSPHERIC DISTURBANCES OBSERVED BY THE TASMAN INTERNATIONAL GEOSPACE ENVIRONMENT RADAR Longsong He (Australia) et al. (3 authors)
GP1a.P.59 (728)	STATISTICAL BEHAVIOUR OF THE POLAR CAP, AURORAL, AND SUBAUROAL IONOSPHERE IMAGED WITH THE TIGER HF RADAR Murray Parkinson (Australia) et al. (7 authors)
GP1a.P.60 (927)	CONVECTIVE PROPERTIES OF LOW-FREQUENCY GRADIENT-DRIFT WAVES IN THE AURORAL E REGION Josef Drexler (Canada) et al. (2 authors)

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GP1a.P.61	2-DIMANSIONAL FLOW VECTORS DERIVED FROM 3 PAIRS OF SUPERDARN RADARS IN THE SAME IONOSPHERIC REGION
(1291)	Erhard Mravlag (South Africa)

GP1b

GENERAL POSTER SESSION

Elizabeth Blanc (France)

Poster session

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- GP1b.P.62 (1683) USING VLF HEATING EXPERIMENTS MAPPING THE IONOSPHERE
Antti Oikarinen (Finland) et al. (5 authors)
- GP1b.P.63 (153) THE PONDEROMOTIVE ACTION OF POWERFUL ELECTROMAGNETIC WAVE ON IONOSPHERIC PLASMA
Yakov Istomin (Russia)
- GP1b.P.64 (154) ACCELERATION OF ELECTRONS IN FIELD-ALIGNED DENSITY IRREGULARITIES BY TRAPPED CYLINDRICAL UH OSCILLATIONS
Yakov Istomin (Russia) et al. (2 authors)
- GP1b.P.65 (217) PARAMETRIC INSTABILITIES IN IONOSPHERIC HEATING EXPERIMENTS
Spencer Kuo (United States of America)
- GP1b.P.66 (218) CASCADE OF LANGMUIR WAVES VIA PARAMETRIC COUPLING WITH LOWER HYBRID WAVES
Spencer Kuo (United States of America) et al. (2 authors)
- GP1b.P.67 (219) CRITICAL HF HEATING POWER FOR MAJOR ENHANCEMENT OF ELF WAVE GENERATION BY MODULATED ELECTROJET
Spencer Kuo (United States of America) et al. (3 authors)
- GP1b.P.68 (221) CASCADE OF THE PARAMETRIC DECAY INSTABILITY IN IONOSPHERIC HEATING EXPERIMENTS
Spencer Kuo (United States of America)
- GP1b.P.69 (222) ON THE OSCILLATING TWO STREAM INSTABILITY IN IONOSPHERIC HEATING EXPERIMENTS
Spencer Kuo (United States of America)
- GP1b.P.70 (588) ANOMALOUS ATTENUATION OF EXTRAORDINARY WAVES IN IONOSPHERE HEATING EXPERIMENTS
N.A. Zabotin (Russia) et al. (7 authors)
- GP1b.P.71 (602) THE FORM OF SPATIAL SPECTRUM OF ARTIFICIAL IONOSPHERIC IRREGULARITIES INDUCED BY POWERFUL HF RADIO WAVES
I. A. Nasyrov (Russia) et al. (10 authors) (I)
- GP1b.P.72 (674) FORMATION OF A STATIONARY STATE OF STRIATIONS IN A VERTICALLY INHOMOGENEOUS IONOSPHERE
Nikolai Borisov (Russia)
- GP1b.P.73 (719) IMAGING FINE STRUCTURE IN HEATER-INDUCED AIRGLOW ABOVE THE HAARP HF TRANSMITTER
Elizabeth Gerken (United States of America) et al. (2 authors)
- GP1b.P.74 (761) SOME RESULTS OF HF-MODIFICATION OF SPORADIC E LAYER.
Vladimir Frolov (Russia) et al. (2 authors) (I)
- GP1b.P.75 (803) SIMULTANEOUS OBSERVATIONS OF THE 555.7 NM AIRGLOW AND STIMULATED ELECTROMAGNETIC EMISSION DURING HF PUMPING OF THE IONOSPHERE
I. A. Nasyrov (Russia) et al. (7 authors)

GP1b.P.76 (1321)	HIGH-LATITUDE ARTIFICIAL AURORA USING THE EISCAT HIGH-GAIN HF-FACILITY Michael Kosch (United Kingdom) et al. (11 authors)
GP1b.P.77 (1515)	EXCITATION OF PLASMA WAVES IN A MIDDLE-SIZED CAVITY NEAR THE REFLECTION LEVEL OF THE HF PUMP WAVE. Nikolay Borisov (Germany) et al. (2 authors)
GP1b.P.78 (2205)	NON-STATIONARY AND FREQUENCY-MODULATED SPACE-TIME FOCUSINGS IN IONOSPHERIC PLASMA Dmitri Tchistiakov (Russia)
GP1b.P.79 (1080)	SAMI: MODELLING THE LOW- TO MID-LATITUDE IONOSPHERE J D Huba (United States of America) et al. (2 authors)
GP1b.P.80 (1155)	TROPOSPHERIC AND IONOSPHERIC SCINTILLATIONS MODELLINGS BY PROBABILITY MODEL AND PHASE SCREENS METHOD. Natacha Caouren (France)
GP1b.P.81 (973)	PERFORMANCE OF WBMOD IN THE SOUTH EAST ASIAN REGION UNDER SOLAR MAXIMUM CONDITIONS Manuel Cervera (Australia) et al. (7 authors)
GP1b.P.82 (2074)	GLOBAL RESPONSE OF THE IONOSPHERE TO THE MARCH 22-23, 1979 STRONG MAGNETIC STORM (CDAW6) Alexander Karpachev (Russia) et al. (3 authors)
GP1b.P.83 (1278)	SCINTILLATION EFFECTS ON RADIO WAVE PROPAGATION THROUGH SOLAR CORONA Christian Ho (United States of America) et al. (4 authors)
GP1b.P.84 (1755)	SPACE WEATHER AND SATELLITE COMMUNICATIONS: AN USEFUL SYNERGY BETWEEN GEOPHYSICISTS AND ENGINEERS João-Batista Destro-Filho (Brazil) et al. (5 authors) (I)
GP1b.P.85 (2168)	THE PLASMA PROCESS OF SOME SOLAR RADIO BURSTS AND THEIR FINE STRUCTURES ON THE TIME Zongjun Ning (P. R. China) et al. (4 authors)
GP1b.P.86 (1574)	COUPLING OF THE F-REGION IONOSPHERE WITH THE MAGNETOSPHERE AND THE SOLAR WIND Lilia Sizova (Russia)
GP1b.P.87 (2281)	VHF RADAR AND GPS BASED STUDIES OF EQUATORIAL SPREAD F IRREGULARITIES OVER BRAZIL Eurico R. de Paula (Brazil) et al. (5 authors)
GP1b.P.88 (1336)	A COMPARISON OF GPS-DERIVED TEC AND FOF2 OVER JAPAN Guanyi Ma (Japan) et al. (2 authors)
GP1b.P.89 (2223)	DYNAMICS OF THE SUBAURORAL IONOSPHERE DURING THE MARCH 29-30, 1979 STORM Alexander Karpachev (Russia)
GP1b.P.90 (1373)	EXPERIMENTAL EVALUATION OF INVERSION METHODS APPLIED TO IONOSPHERIC RADIO-OCCULTATION OBSERVATIONS Clarence Chong (United Kingdom) et al. (3 authors)
GP1b.P.91 (382)	RADIO SCINTILLATION BY THE MARTIAN TURBULENT IONOSPHERE AND ATMOSPHERE-SIMULATION RESULTS Andrzej Wernik (Poland)

- GP1b.P.92 MODELING THE MARTIAN IONOSPHERE USING THE TOTAL ELECTRONIC CONTENT
MEASUREMENT BY THE NEIGE/NETLANDER EXPERIMENT AND WITH OTHERS NETLANDER
EXPERIMENT (GPR, MAGNET)
(571) Laurent MOREL (Belgium) et al. (6 authors)
- GP1b.P.93 OPERATIONAL MODEL FOR REAL-TIME RECONSTRUCTION OF THE ELECTRON DENSITY
PROFILE USING GPS TEC MEASUREMENTS
(1571) S.M. Stankov (Belgium) et al. (3 authors)
- GP1b.P.94 COMPARISON OF THIN SHELL AND 4-D INVERSION TECHNIQUES FOR MEASUREMENT AND
MAPPING OF TOTAL ELECTRON CONTENT USING GPS SIGNALS OVER EUROPE.
(1372) Robert Meggs (United Kingdom) et al. (3 authors)
- GP1b.P.95 TOTAL ELECTRON CONTENT DURING REGIONAL IONOSPHERIC DISTURBANCES
(74) Anna Swiatek (Poland) et al. (2 authors)
- GP1b.P.96 EQUATORIAL TEC VARIATIONS DURING THE GEOMAGNETIC STORM OF JULY 15-17, 2000
(820) Yih Hwa Ho (Malaysia) et al. (5 authors)
- GP1b.P.97 THE MORPHOLOGY OF TOTAL ELECTRON CONTENT PULSATIONS IN THE IONOSPHERE
(196) Edvard Afraimovich (Russia) et al. (5 authors)
- GP1b.P.98 WHAT IS THE BEST HEIGHT FOR THE TOPSIDE SOUNDING:1000 KM OR 350 KM?
(1082) Nick Danilkin (Russia)
- GP1b.P.99 LONGITUDINAL PECULIARITY OF TOPSIDE ELECTRON DENSITY AT 1100 KM
(1286) Takashi Maruyama (Japan)
- GP1b.P.100 IONOSPHERIC DATA FOR TWO SOLAR CYCLES AVAILABLE ONLINE
(2277) Dieter Bilitza (United States of America) et al. (4 authors)
- GP1b.P.101 SOME ASPECTS OF THE HE+ DENSITY TOPSIDE MODELLING
(698) Larissa Sidorova (Russia) et al. (2 authors) (I)
- GP1b.P.102 A NEW EMPIRICAL MODEL OF ION COMPOSITION IN THE OUTER IONOSPHERE AND ITS
COMPARISON WITH AVAILABLE SATELLITE DATA
(2131) Ludmila Triskova (Czech Republic) et al. (3 authors)
- GP1b.P.103 COMPARISON OF IONOSPHERIC RADIOSOUNDING FROM THE MIR MANNED SPACE STATION
WITH DATA FROM GROUND-BASED IONOSONDES
(593) Nick Danilkin (Russia) et al. (4 authors)
- GP1b.P.104 EMPIRICAL MODELS OF THE PLASMA DENSITY IN THE PLASMASPHERE AND POLAR CAP
(1396) Xueqin Huang (United States of America) et al. (11 authors)
- GP1b.P.105 A FLEXIBLE MODELING OF GLOBAL ELECTRON DENSITY PROFILE
(597) Yoshitaka Goto (Japan) et al. (3 authors)
- GP1b.P.106 MEASUREMENT AND ANALYSIS OF SOUNDS DURING ACTIVE AURORAE IN FINLAND 2000-2001
(1901) Unto K. Laine (Finland) et al. (4 authors)
- GP1b.P.107 AUTOWAVES OR TURBULENCE IN F-REGION OF MIDLATITUDE NIGHTTIME IONOSPHERE
(1809) Sergiy Musatenko (Ukraine) et al. (5 authors)
- GP1b.P.108 SEARCHING FOR EARTHQUAKE PRECURSORS IN TOTAL ELECTRON CONTENT VARIATIONS IN
THE IONOSPHERE USING DATA FROM THE GLOBAL GPS NETWORK
(205) Elvira Astafieva (Russia) et al. (2 authors)

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| GP1b.P.109 | A NEW APPROACH TO HF SOUNDING AND VISUALIZATION OF WAVELIKE IONOSPHERIC DISTURBANCES |
| (1104) | Vasily Beley (Ukraine) et al. (5 authors) |
| GP1b.P.110 | SEISMIC EFFECTS ON THE IONOSPHERE |
| (1537) | Thomas Farges (France) et al. (4 authors) |

GP2		SHORT-TERM VARIABILITY IN THE IONOSPHERE	
		Mihail Codrescu (USA)	
		<i>Poster session</i>	<i>Thursday, August 22, 2002 - P2</i>
		<i>Room: Expo Foyer</i>	
GP2.P.1	ON THE CAUSES OF DAY-TO-DAY VARIATIONS IN THE MID-LATITUDE IONOSPHERIC F2 REGION ELECTRON DENSITY		
(198)	Oleg F. Tynov (Ukraine) et al. (2 authors)		
GP2.P.2	INFLUENCE OF SUBSTORMS ON THE IONOSPHERE OF EUROPEAN REGION DURING 1998-1999		
(239)	Donat Blagoveshchensky (Russia) et al. (2 authors)		
GP2.P.3	D-REGION ELECTRON DENSITIES DURING SOLAR FLARES FROM VLF RADIO MEASUREMENTS		
(375)	Neil THOMSON (New Zealand) et al. (3 authors)		
GP2.P.4	FORECASTING GEOMAGNETIC ACTIVITY 3 HOURS IN ADVANCE FOR IONOSPHERIC APPLICATIONS		
(1128)	Giorgiana De Franceschi (Italy) et al. (3 authors)		
GP2.P.5	VARIATIONS IN IONOSPHERIC E-REGION DYNAMICS AT MID-LATITUDES DURING INTENSE GEOMAGNETIC STORMS		
(1532)	Joseph Salah (United States of America) et al. (2 authors)		
GP2.P.6	ESTIMATING DAYTIME VERTICAL EXB DRIVELOCITIES FROM EQUATORIAL MAGNETOMETER OBSERVATIONS		
(1570)	David Anderson (United States of America) et al. (5 authors)		
GP2.P.7	THE EFFECT OF SOLAR PERTURBATIONS ON IONOSPHERIC ABSORPTION OVER ANTARCTICA		
(1787)	Vincenzo Romano (Italy) et al. (4 authors)		
GP2.P.8	SHORT-TERM IONOSPHERIC VARIABILITY IN STATISTICAL MODELS OF INCOHERENT SCATTER RADAR DATA		
(1892)	John Holt (United States of America) et al. (2 authors)		
GP2.P.9	INVESTIGATION OF IONOSPHERIC VARIABILITY USING THE GREENLAND TOMOGRAPHY ARRAY		
(1947)	Gary Bust (United States of America) et al. (3 authors) (I)		
GP2.P.10	REPRESENTATIVE EXAMPLES OF SHORT AND MEDIUM TERM VARIATIONS IN E-REGION IONIZATION IN THE AURORAL OVAL - THEIR CAUSES AND EFFECTS		
(2051)	Robert Hunsucker (United States of America)		
GP2.P.11	AURORAL E-FIELD VARIABILITY EFFECTS IN THE IONOSPHERE		
(411)	Mihail Codrescu (United States of America)		

Commission H - WAVES IN PLASMA

Chair: H.G. James (Canada) Vice-chair: U.S. Inan (USA)

H Special

POWER TRANSMISSION FROM SOLAR POWER STATIONS, TECHNOLOGICAL, ENVIRONMENTAL AND BIOLOGICAL ASPECTS (I, C, P)

K. Hashimoto (Japan) and A. Alden (Canada)

Oral session

Wednesday, August 21, 2002 - morning

Room: 0.8 Rome

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| H Special.O.1
(965) | SOLAR POWER SATELLITES: RECENT DEVELOPMENTS
Frank Little (United States of America) (I) |
| H Special.O.2
(1442) | JAPANESE TRIAL FOR A BRIGHT AND CLEAN ENERGY FROM SPACE -- SOLAR POWER STATION (SPS) AND MICROWAVE POWER TRANSMISSION (MPT) --
Hiroshi Matsumoto (Japan) et al. (2 authors) (I) |
| H Special.O.3
(1965) | POTENTIAL IMPACT OF A SOLAR POWER SATELLITE SYSTEM ON RADIO ASTRONOMY
Michael M. Davis (United States of America) et al. (2 authors) (I) |
| H Special.O.4
(126) | BIOLOGICAL ASPECTS OF MICROWAVE POWER TRANSMISSION FROM SPACE SOLAR POWER STATIONS
James Lin (United States of America) (I) |
| H Special.O.5
(1332) | EFFECTS OF SPS ON THE SPACE PLASMA ENVIRONMENT
Hideyuki Usui (Japan) et al. (3 authors) (I) |
| H Special.O.6
(618) | LOW COST MICROWAVE RECTIFIER FOR LOW AND HIGH POWERS
Mohamed LATRACH (France) et al. (4 authors) |
| H Special.O.7
(1353) | THE INVESTIGATIONS IN WIRELESS ENERGY TRANSMISSION AT THE KHARKIV NATIONAL UNIVERSITY OF RADIO ELECTRONICS
Yakov S. Shifrin (Ukraine) et al. (4 authors) (I) |

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

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| H Special.P.1
(1819) | BEAM STEERING IN ACTIVE INTEGRATED ANTENNA FOR MICROWAVE WIRELESS POWER TRANSMISSION
Shigeo Kawasaki (Japan) et al. (5 authors) |
| H Special.P.2
(1325) | OPTIONS FOR 21ST CENTURY POWER PROSPERITY
David Criswell (United States of America) |
| H Special.P.3
(229) | RECTENNA ELECTROMAGNETIC COMPATIBILITY CONSIDERATIONS FOR SOLAR POWER SATELLITE SYSTEMS
A. Alden (Canada) et al. (2 authors) |
| H Special.P.4
(1441) | SOLAR POWER RADIO INTEGRATED TRANSMITTER (SPRITZ) UNIT FOR SPS
Masahiro Mori (Japan) et al. (4 authors) |

Commission H

URSI GA 2002 - Oral and Poster Sessions

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| H Special.P.5
(1493) | SPORTS: SOLAR POWER RADIO TRANSMISSION SYSTEM
Hiroshi Matsumoto (Japan) et al. (4 authors) |
| H Special.P.6
(2204) | DEVELOPMENT OF MICROWAVE POWER TRANSMISSION EQUIPMENT FOR SSPS RESEARCH FACILITY
Keiichi Morishita (Japan) et al. (6 authors) |
| H Special.P.7
(1284) | BEAM CONTROL SYSTEM WITH SPREAD SPECTRUM PILOT SIGNALS FOR SOLAR POWER SATELLITE
Kozo Hashimoto (Japan) et al. (4 authors) |
| H Special.P.8
(1475) | SOLAR POWER STATION/SATELLITE (SPS) WITH PHASE CONTROLLED MAGNETRONS
Naoki Shinohara (Japan) et al. (3 authors) |
| H Special.P.9
(1459) | EXPERIMENTAL STUDY ON NOISES AND DC-RF EFFICIENCY OF MAGNETRONS FOR MICROWAVE POWER TRANSMISSION
Tomohiko Mitani (Japan) et al. (6 authors) |
| H Special.P.10
(2105) | A DEMONSTRATION EXPERIMENT FOR MICROWAVE POWER TRANSMISSION FROM SPACE TO GROUND
Koji Tanaka (Japan) et al. (5 authors) (I) |
| H Special.P.11
(1667) | RF TRANSMISSION POWER DISTRIBUTION BY DISCRETE SPACE SEGMENTS OF SSPS
Tomohiro Mizuno (Japan) et al. (6 authors) |

H1 KINETIC EFFECTS IN BOUNDARY LAYERS (I, C, P)

B. Lembege (France) and M. Hoshino (Japan)

Oral session

Thursday, August 22, 2002 - morning

Room: 0.8 Rome

- H1.O.1 THE ELECTRON CYCLOTRON MASER INSTABILITY: AN AURORAL WAVE-PARTICLE INTERACTION MECHANISM
(522) Philip Pritchett (United States of America) et al. (4 authors) (I)
- H1.O.2 KINETIC EFFECTS IN THIN CURRENT SHEETS AND SUBSTORMS: GEOTAIL OBSERVATIONS
(1461) Toshifumi Mukai (Japan) et al. (3 authors) (I)
- H1.O.3 KINKING OF THIN CURRENT SHEETS IN 2D AND 3D KINETIC SIMULATIONS; POSSIBLE APPLICATIONS TO SUBSTORM ONSET
(991) Giovanni Lapenta (United States of America) et al. (2 authors) (I)
- H1.O.4 DYNAMICS OF SOLAR AND IONOSPHERIC PLASMA POPULATIONS INTO THE PLASMA SHEET, INTERBALL AND CLUSTER RESULTS
(2237) Jean-Andre Sauvaud (France) (I)
- H1.O.5 CLUSTER OBSERVATIONS OF ELECTRIC FIELDS AT COLLISIONLESS SHOCKS
(2130) Stuart Bale (United States of America) et al. (4 authors) (I)
- H1.O.6 FULL PARTICLE AND HYBRID SIMULATIONS OF QUASI-PERPENDICULAR SHOCKS AND COMPARISON WITH CLUSTER DATA
(1126) Manfred Scholer (Germany) (I)
- H1.O.7 FULL PARTICLE SIMULATIONS OF QUASI- PARALLEL AND QUASI-PERPENDICULAR BOW SHOCKS AND COMPARISON WITH GEOTAIL SPACE OBSERVATIONS
(1592) Hiroshi Matsumoto (Japan) et al. (3 authors) (I)
- H1.O.8 STRUCTURE OF AND TRANSPORT AT THE MAGNETOPAUSE
(2189) Rudolf Treumann (Germany) (I)
- H1.O.9 FULLY KINETIC 3D SIMULATIONS OF MAGNETIC RECONNECTION
(2116) Michael Swisdak (United States of America) et al. (5 authors) (I)
- H1.O.10 OBSERVATIONS OF STRONG DOUBLE LAYERS AND ELECTRON PHASE-SPACE HOLES
(1176) Robert Ergun (United States of America) (I)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- H1.P.1 DISPERSIVE ALFVEN WAVES FROM FAST AND CLUSTER-2: KINETIC EFFECTS, PROPAGATION AND ELECTRON ACCELERATION
(720) Christopher Chaston (United States of America) et al. (5 authors)
- H1.P.2 MICRO AND MESO SCALE PLASMA KINETICS IN THE AURORAL ACCELERATION REGION
(1335) David Schriver (United States of America) et al. (7 authors)
- H1.P.3 IDENTIFICATION OF THE MAGNETOPAUSE STRUCTURE WITH CLUSTER
(1358) Laurence Rezeau (France) et al. (15 authors)
- H1.P.4 MULTISPACECRAFT IDENTIFICATION OF SMALL SCALE STRUCTURES ON THE MAGNETOPAUSE
(1360) Laurence Rezeau (France) et al. (5 authors)

- H1.P.5 PARTICLE SIMULATION OF PLASMA RESPONSE TO AN APPLIED ELECTRIC FIELD PARALLEL TO
MAGNETIC FIELD LINES
(1447) Yoshiharu Omura (Japan) et al. (5 authors)
- H1.P.6 FIRST EVIDENCE OF COLLISIONLESS RECONNECTION IN THE EARTH'S MAGNETOSPHERE:
GEOTAIL OBSERVATIONS
(1451) Deng X. H. (Japan) et al. (3 authors)
- H1.P.7 DISSIPATION PROCESS AT COLLISIONLESS SHOCKS IN THE ELECTRON SCALE
(1473) Tooru Sugiyama (Japan) et al. (3 authors)
- H1.P.8 BASIC MECHANISMS INVOLVED IN THE ADIABATICITY BREAKDOWN OF ELECTRONS
TRANSMITTED THROUGH A QUASIPERPENDICULAR SHOCK
(1494) Bertrand LEMBEGE (France) et al. (2 authors)
- H1.P.9 EVIDENCE OF NONADIABATIC ELECTRON HEATING AND COOLING THROUGH A SELF
CONSISTENT QUASI-PERPENDICULAR SHOCK
(1497) Philippe SAVOINI (France) et al. (3 authors)
- H1.P.10 ULF WAVES IN THE VICINITY OF QUASI-PERPENDICULAR SHOCKS
(1529) S. Perraut (France) et al. (11 authors)
- H1.P.11 SELF REFORMATION OF QUASI-PARALLEL SHOCK IN FULL PARTICLE SIMULATIONS
(1535) Ken Tsubouchi (France) et al. (2 authors)
- H1.P.12 NUMERICAL SIMULATIONS OF A SUBCRITICAL QUASIPERPENDICULAR SHOCK:
SPATIO-TEMPORAL AND NONLINEAR DATA ANALYSIS TECHNIQUES
(1743) Jan Soucek (Czech Republic) et al. (4 authors)
- H1.P.13 THREE-DIMENSIONAL ELECTRO-MAGNETIC PARTICLE SIMULATIONS OF THE SOLAR
WIND-MAGNETOSPHERE INTERACTION WITH TIME-VARYING IMF USING HPF TRISTAN CODE
(1769) Dongsheng Cai (Japan) et al. (4 authors)
- H1.P.14 COMPRESSIVE LOW FREQUENCY WAVES AT THE MAGNETIC PILEUP BOUNDARY OF MARS:
MGS MAG/ER OBSERVATIONS
(1882) César Bertucci (France) et al. (7 authors)
- H1.P.15 CLUSTER OBSERVATIONS OF GYRATING IONS AND ASSOCIATED ULF WAVES UPSTREAM OF
THE BOW SHOCK
(1887) Christian Mazelle (France) et al. (5 authors)
- H1.P.16 FULL PARTICLE SIMULATION OF SLOW WAVES
(2057) DongSheng Cai (Japan) et al. (2 authors)
- H1.P.17 CRITICALITY OF MAGNETOTAIL FIELD TOPOLOGY IN A THREE-DIMENSIONAL PARTICLE
SIMULATION
(2160) DongSheng Cai (Japan) et al. (4 authors)
- H1.P.18 HIGH MACH NUMBER NONSTATIONARY SHOCKS: OVERTURNING PROCESS
(2188) Vladimir Krasnoselskikh (France) et al. (4 authors)
- H1.P.19 SHOCK FRONT NONSTATIONARITY OF SUPERCRITICAL PERPENDICULAR SHOCKS
(2194) Makiko Oonishi (Japan) et al. (4 authors)

H2 WAVES AND COHERENT STRUCTURES IN SPACE PLASMAS (I, C, P)

Y. Omura (Japan) and M. Ashour-Abdalla (U.S.A.)

Oral session

Thursday, August 22, 2002 - afternoon

Room: 0.8 Rome

- H2.O.1 SOLITARY POTENTIAL STRUCTURES OBSERVED BY THE WIDEBAND PLASMA WAVE RECEIVER ON THE CLUSTER SPACECRAFT
(1391) J. S. Pickett (United States of America) et al. (11 authors) (I)
- H2.O.2 THE EVOLUTION OF ELECTRON HOLES AND GENERATION OF ELECTROSTATIC WHISTLER WAVES
(1594) Meers Oppenheim (United States of America) et al. (2 authors)
- H2.O.3 TWO-DIMENSIONAL PARTICLE SIMULATIONS OF ELECTROMAGNETIC EMISSIONS FROM ELECTROSTATIC SOLITARY WAVES
(731) Takayuki Umeda (Japan) et al. (3 authors)
- H2.O.4 SPACE-RELEVANT LAB STUDIES OF ELECTROSTATIC ION-ACOUSTIC WAVES DRIVEN BY INHOMOGENEITY IN THE FIELD-ALIGNED CURRENT
(531) Mark Koepke (United States of America) et al. (3 authors) (I)
- H2.O.5 GENERATION OF UPSTREAM ELECTROMAGNETIC PLASMA OSCILLATIONS IN DENSITY GRADIENTS
(1334) David Schriver (United States of America) et al. (6 authors)
- H2.O.6 DETERMINATION OF THE PLASMA DENSITY USING THE Z MODE CUT-OFF OF NATURAL WAVES RECORDED BY WHISPER EXPERIMENT ON BOARD CLUSTER SATELLITES
(1817) Jean Louis RAUCH (France) et al. (5 authors)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- H2.P.1 IMAR.THE IONOSPHERIC-MAGNETOSPHERIC ALFVEN RESONATOR.
(37) Andrey Olegovich Ovchinnikov (Russia)
- H2.P.2 HORIZONTALLY NONUNIFORM IONOSPHERIC MHD VAWEGUIDE IN THE CASE OF AN OBLIQUE GEOMAGNETIC FIELD
(93) Andrey Olegovich Ovchinnikov (Russia)
- H2.P.3 WHISTLER WAVE RADIATION FROM A MODULATED ELECTRON BEAM INJECTED IN A COLLISIONAL DENSITY DUCT IN A MAGNETOPLASMA
(204) Mikhail Lyakh (Russia) et al. (4 authors)
- H2.P.4 SPACE CHAMBER INVESTIGATION OF MAGNETOSPHERIC BOUNDARY LAYER DYNAMICS*
(458) William Amatucci (United States of America) et al. (4 authors)
- H2.P.5 STRUCTURE OF MEDIUM OBLIQUE SHOCK WAVE
(852) Pavel Travnicek (Czech Republic) et al. (4 authors)
- H2.P.6 ELECTROSTATIC QUASI-MONOCROMATIC WAVE IN THE DOWNSTREAM REGION OF THE BOW SHOCK: GEOTAIL OBSERVATION
(1064) Koichi Shin (Japan) et al. (4 authors)
- H2.P.7 A NUMERICAL STUDY OF POLARIZATION SENSITIVITY FOR VHF RADAR OBSERVATION OF METER-SCALE ELECTROJET IRREGULARITIES
(1198) Dawn M. Gidner (United States of America) et al. (4 authors)

- H2.P.8
(1211) BROADBAND ELECTROSTATIC WAVES IN THE NEAR-EARTH MAGNETOTAIL
Crockett Grabbe (United States of America) et al. (2 authors)
- H2.P.9
(1439) FORMATION OF WAVE FRONT PATTERN AND DC POTENTIAL STRUCTURE ACCOMPANIED BY
CURRENT DRIVEN ELECTROSTATIC ION-CYCLOTRON INSTABILITIES
Seiji Ishiguro (Japan) et al. (3 authors)
- H2.P.10
(1454) OBSERVATION OF ESW ASSOCIATED WITH RECONNECTION ON DAYSIDE MAGNETOPAUSE
BOUNDARY
Deng X. H. (Japan) et al. (3 authors)
- H2.P.11
(1501) MULTIPOINT OBSERVATIONS OF PLASMA WAVES AND ELECTRONS IN THE POLAR CUSP/CLEFT
REGION BY CLUSTER.
Patrick Canu (France) et al. (13 authors)
- H2.P.12
(1746) NONLINEAR SPECTRAL ANALYSIS OF PLASMA TURBULENCE
Jan Soucek (France) et al. (4 authors)
- H2.P.13
(1883) NONLINEAR COHERENT WAVES AT THE PROTON CYCLOTRON FREQUENCY AT MARS
Christian Mazelle (France) et al. (5 authors)
- H2.P.14
(2099) A MULTI-SCALE TECHNIQUE FOR PLASMA SIMULATIONS AND APPLICATION
Ken Murata (Japan) et al. (5 authors)

H3 ANTENNAS AND (RF) PROBES IN PLASMAS (I, C, P)

E.A. Mareev (Russia) and V. Fiala (Czech Republic)

Oral session Monday, August 19, 2002 - morning Room: 0.8 Rome

- H3.O.1 QUASI-THERMAL NOISE SPECTROSCOPY: DIAGNOSTICS IN SPACE MEDIA
(1686) Karine Issautier (France) et al. (3 authors) (I)
- H3.O.2 REVIEW OF CRITICAL PARAMETERS FOR MODELING OF ELECTRIC ANTENNAS IN SPACE
(2173) PLASMAS
Christian Béghin (France) (I)
- H3.O.3 THEORY OF ANTENNAS IN PLASMAS UNDER RESONANCE CONDITIONS: PROBLEMS AND
(1371) APPLICATIONS
E.A. Mareev (Russia) et al. (2 authors) (I)
- H3.O.4 STIMULATION OF CHARACTERISTIC FREQUENCIES OF THE ELECTRON POPULATION BY ACTIVE
(1889) INSTRUMENTS ON CLUSTER
O. C. Randriamboarison (France) et al. (11 authors) (I)
- H3.O.5 IMPEDANCE OF WIRE ANTENNA ONBOARD SPACECRAFT
(1463) Minoru Tsutsui (Japan) (I)
- H3.O.6 ABSOLUTE AC ELECTRIC FIELD MEASUREMENTS IN SPACE PLASMA
(1784) Isamu Nagano (Japan) et al. (2 authors) (I)

Poster session Tuesday, August 20, 2002 - P1 Room: Expo Foyer

- H3.P.1 COMPARISON BETWEEN THE INTEGRAL EQUATION APPROACH AND THE TRANSMISSION LINE
(244) THEORY FOR ANALYSIS OF A LOOP ANTENNA IN A MAGNETOPLASMA
Evgeny Petrov (Russia) et al. (3 authors)
- H3.P.2 CYLINDRICAL ANTENNA IN A RESONANT MAGNETOPLASMA
(245) Evgeny Petrov (Russia) et al. (3 authors)
- H3.P.3 TESTS OF THEORY FOR ELECTROMAGNETIC RADIATION FROM SHORT DIPOLES IN SPACE
(389) PLASMA
Gordon James (Canada) et al. (2 authors)
- H3.P.4 RECEIVING ANTENNA IN A MAGNETOPLASMA IN THE RESONANCE FREQUENCY BAND
(837) Yury Chugunov (Russia)
- H3.P.5 ON NON-LINEAR EFFECTS IN THE PERFORMANCE OF A R-F PROBE IN ISOTROPIC PLASMA
(406) Vaclav Jasensky (Czech Republic) et al. (3 authors)
- H3.P.6 A SYMMETRIC PROBE FOR MEASUREMENT OF FIELD ALIGNED DRIFTS IN MAGNETIZED
(407) PLASMA
Vaclav Jasensky (Czech Republic) et al. (3 authors)
- H3.P.7 CHARGING OF THE IMPEDANCE-PROBE CAUSED BY ENERGETIC ELECTRONS
(538) Yuzo Watanabe (Japan)
- H3.P.8 EXCITATION OF NOISE BY CURRENT IN MAGNETIZED PLASMA
(1096) Askold Strikovsky (Russia) et al. (4 authors)

Commission H

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| H3.P.9
(1502) | INFLUENCE OF RANDOM IRREGULARITIES ON QUASI-THERMAL NOISE SPECTRUM OF PLASMA
N.A. Zabotin (Russia) et al. (4 authors) |
| H3.P.10
(1602) | ELECTRIC FIELD AND ELECTRIC CURRENT MEASUREMENTS IN THE LOWER ATMOSPHERE
Sergei Anisimov (Russia) |
| H3.P.11
(1715) | RELATIONSHIP BETWEEN THE PLASMA WAVE AND THE ELECTRON DENSITY ESTIMATED FROM THE GEOTAIL SPACECRAFT POTENTIAL
Keigo Ishisaka (Japan) et al. (6 authors) |
| H3.P.12
(1756) | RHEOMETRY EXPERIMENT OF THE WIRE ANTENNA ABOARD GEOTAIL
Tomohiko Imachi (Japan) et al. (6 authors) |
| H3.P.13
(1771) | EFFECTIVE LENGTHS OF CROSSED WIRE ANTENNAS ONBOARD AKEBONO
Ryoichi Higashi (Japan) et al. (5 authors) |

H4 PLASMASPHERIC STRUCTURE AND PHENOMENA (I, C, P)

B.J. Fraser (Australia) and G. Ganguli (U.S.A.)

Oral session

Tuesday, August 20, 2002 - morning

Room: 0.8 Rome

- H4.O.1
(1929) PLASMASPHERE EMPIRICAL MODELING WITH THE IMAGE MISSION
Dennis Gallagher (United States of America) et al. (5 authors) (I)
- H4.O.2
(1913) THE PLASMAPAUSE REGION : MODEL SIMULATIONS VERSUS WHISPER & EFW CLUSTER
OBSERVATIONS
Joseph F. Lemaire (Belgium) et al. (8 authors) (I)
- H4.O.3
(1178) THE QUIET PLASMASPHERE'S RESPONSE TO THE SOLAR WIND AND THE TOPSIDE IONOSPHERE
Anthony Reynolds (United States of America) et al. (5 authors) (I)
- H4.O.4
(386) PENETRATION ELECTRIC FIELD AND THE FORMATION OF PLASMASPHERIC SHOULDERS AND
NOTCHES
Jerry Goldstein (United States of America) et al. (9 authors) (I)
- H4.O.5
(1427) SPREAD ECHOES FROM THE PLASMAPAUSE REGION AND MAIN PLASMASPHERE RECEIVED
DURING HIGH ALTITUDE RADIO SOUNDING BY THE RPI INSTRUMENT ON THE IMAGE
SPACECRAFT
Donald Carpenter (United States of America) et al. (10 authors) (I)
- H4.O.6
(657) VLF WAVE ACTIVITY IN THE OUTER RADIATION BELT DURING MAGNETIC STORM
Yoshiya Kasahara (Japan) et al. (2 authors) (I)
- H4.O.7
(1162) DIAGNOSTICS OF THE PLASMASPHERE AND PLASMAPAUSE USING ULF WAVES
Frederick Menk (Australia) et al. (6 authors) (I)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- H4.P.1
(29) MODELLING AND ANALYSIS OF SUBSTORM-RELATED CHORUS EVENTS OBSERVED AT SANAE
Andrew Collier (South Africa)
- H4.P.2
(78) FORMATION OF SPATIAL STRUCTURE OF PRECIPITATING ELECTRONS FOR PULSATING
AURORA
Dmitry Pasmanik (Russia) et al. (2 authors)
- H4.P.3
(547) COMPRESSIONAL PC3 ULF WAVES IN THE MIDDLE MAGNETOSPHERE
Y. D. Hu (Australia) et al. (4 authors)
- H4.P.4
(730) GENERATION MECHANISM OF THE KILOMETRIC RADIATIONS FILLING INSIDE THE DENSITY
DEPLETION REGION OF THE PLASMASPHERE
Manabu Sato (Japan) et al. (5 authors)
- H4.P.5
(814) FORMATION OF A PLASMA ENVELOPE AROUND ROTATING MAGNETIZED PLANET
Alexey Soldatkin (Russia) et al. (2 authors)
- H4.P.6
(843) ELECTROSTATIC ELECTRON CYCLOTRON HARMONIC WAVES OBSERVED IN THE EQUATORIAL
REGION OF
Takayuki Ono (Japan) et al. (2 authors)
- H4.P.7
(888) MAGNETOSPHERIC TOMOGRAPHY
Suman Ganguly (United States of America) et al. (2 authors)

- H4.P.8
(1071) ELECTRON DENSITY PROFILES IN THE PLASMAPAUSE AND PLASMA TROUGH REGIONS
Harri Laakso (The Netherlands) et al. (3 authors)
- H4.P.9
(1073) MULTI-POINT MEASUREMENTS OF PLASMA DRIFTS AND DENSITIES NEAR THE PLASMAPAUSE
Harri Laakso (The Netherlands) et al. (3 authors)
- H4.P.10
(1154) COMPARISON OF ELECTRON PITCH ANGLE AND ENERGY DIFFUSION RATES DRIVEN BY WHISTLER MODE WAVES INSIDE AND OUTSIDE THE PLASMASPHERE DURING STORM TIMES
Richard B. Horne (United Kingdom) et al. (3 authors)
- H4.P.11
(1434) LOW-DENSITY REGIONS IN THE PLASMASPHERE
Bill Sandel (United States of America) et al. (2 authors)
- H4.P.12
(1531) ANALYSIS OF DC ELECTRIC FIELDS AND ELF WAVES OBSERVED BY SS-520-2 SOUNDING ROCKET IN THE POLAR REGION
Taketoshi Miyake (Japan) et al. (8 authors)
- H4.P.13
(1792) MULTIPOINT OBSERVATION OF SMALL SCALE IRREGULARITIES AT THE PLASMAPAUSE, USING THE WHISPER MEASUREMENTS
Fabien Darrouzet (Belgium) et al. (11 authors)
- H4.P.14
(2030) PLASMASPHERIC AND MAGNETOSPHERIC DENSITY AND DENSITY STRUCTURES DETERMINED FROM ISEE, CRRES, GEOTAIL AND POLAR PLASMA WAVE OBSERVATIONS
Roger R. Anderson (United States of America) et al. (11 authors)

H5

OPEN SESSION AND LATE RESULTS (I, C, P)

H.G. James (Canada)

Oral session

Friday, August 23, 2002 - afternoon

Room: 0.8 Rome

- H5.O.1
(1520) SOME FIRST RESULTS OF THE CLUSTER STAFF EXPERIMENT
Nicole Cornilleau-Wehrin (France) et al. (15 authors) (I)
- H5.O.2
(1867) ELECTRIC FIELD EMISSIONS OF HIGH FREQUENCY OBSERVED IN THE EARTH
MAGNETOSPHERE: NEW FINDINGS FROM THE FOUR WHISPER/CLUSTER INSTRUMENTS
Pierrette Décréau (France) et al. (9 authors) (I)
- H5.O.3
(920) RESULTS FROM THE CLUSTER WIDEBAND PLASMA WAVE INVESTIGATION
D. A. Gurnett (United States of America) et al. (11 authors) (I)
- H5.O.4
(917) ELECTRIC FIELD MEASUREMENTS OF LOW FREQUENCY WAVES ON CLUSTER
Georg Gustafsson (Sweden) et al. (5 authors) (I)
- H5.O.5
(1163) THE MAGNETOSPHERIC CONSTELLATION AND TOMOGRAPHY MISSION
Robert Ergun (United States of America) (I)
- H5.O.6
(1400) RPI OBSERVATIONS OF THE MAGNETOSTORM EFFECTS ON THE PLASMASPHERIC DENSITY
DISTRIBUTION
Bodo Reinisch (United States of America) et al. (9 authors) (I)
- H5.O.7
(418) VLF EMISSION TRIGGERING BY A HIGHLY ANISOTROPIC ENERGETIC ELECTRON PLASMA
David Nunn (United Kingdom) et al. (4 authors)
- H5.O.8
(1504) ALFVEN CONTROL OF LONG WHISTLER ECHO TRAINS
Boris Ryabov (Russia) et al. (2 authors)
- H5.O.9
(1035) A NEW TREATMENT OF THE PROPAGATION AND REFLECTION OF ELECTROMAGNETIC SIGNALS
Orsolya E. Ferencz (Hungary) et al. (2 authors)
- H5.O.10
(409) NEW IONOSPHERIC STRUCTURES FROM THE DATA OF SATELLITE 350 KM HEIGHT RADIO
SOUNDING
Nicholas Danilkin (Russia) et al. (3 authors)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- H5.P.1
(201) SOURCE-EXCITED WHISTLER MODE WAVES IN COLLISIONAL DUCTS WITH ENHANCED PLASMA
DENSITY
Mikhail Lyakh (Russia) et al. (3 authors)
- H5.P.2
(725) RAY TRACING OF WHISTLER MODE WAVES USING THE EXTERNAL GEOMAGNETIC FIELD
MODEL
Toshio Matsuo (Japan) et al. (2 authors)
- H5.P.3
(1054) ANOMALISTIC PHENOMENA IN WHISTLER PROPAGATION
Csaba Ferencz (Hungary) et al. (6 authors)
- H5.P.4
(399) QUANTITATIVE EXPLANATION OF THE NEW SATELLITE IONOGRAMS TAKEN BELOW THE
F2-LAYER MAXIMUM
Nadia Kotonaeva (Russia)

H5.P.5 (417)	NUMERICAL SIMULATION OF VLF EMISSION TRIGGERING- A PARAMETRIC STUDY David Nunn (United Kingdom) et al. (4 authors)
H5.P.6 (494)	DEPOLARIZATION AND FEATURES OF THE ANGULAR SPECTRUM George Jandieri (GEORGIA) et al. (3 authors)
H5.P.7 (514)	GENERATION MECHANISM OF ULTRA_LOW FREQUENCY ELECTROMAGNETIC WAVE STRUCTURES IN F_REGION George Aburjania (Georgia) et al. (2 authors)
H5.P.8 (637)	ELECTROMAGNETIC FIELDS GENERATED BY A MOMENTARY HEATING OF A THIN IONOSPHERIC PLASMA LAYER Julia Arkhipenko (Russia)
H5.P.9 (929)	KINETIC AND FLUID CALCULATIONS OF WAVE PROPERTIES IN A MAGNETOPLASMA WITH ANISOTROPIC PRESSURE PERTURBATIONS Colman Altman (Israel) et al. (2 authors)
H5.P.10 (946)	DETERMINATION OF AURORAL REGION COLD AND HOT PLASMA DENSITIES FROM THE GROUND OBSERVATIONS OF AURORAL HISS Vikas Sonwalkar (United States of America) et al. (2 authors)
H5.P.11 (996)	THE ALFVEN WAVES OF IONOSPHERIC ORIGIN AND THE ASSOCIATED PLASMA DYNAMICS AND ELECTRODYNAMICS Lie Zhu (United States of America) et al. (3 authors)
H5.P.12 (1264)	ELECTRON PLASMA OSCILLATIONS IN THE SOLAR WIND UPSTREAM OF THE EARTH'S BOW SHOCK: CLUSTER/WHISPER SOUNDER OBSERVATIONS AND CONNECTION CALCULATIONS Jean-Gabriel TROTIGNON (France) et al. (8 authors)
H5.P.13 (851)	FORMATION AND DEVELOPMENT OF SHOCK WAVES IN THE SOLAR CORONA AND THE INTERPLANETARY SPACE Gottfried Mann (Germany) et al. (4 authors)
H5.P.14 (1288)	BASIC THEORY FOR A MAGNETOSPHERIC SUBSTORM W. Calvert (United States of America)
H5.P.15 (1775)	TRANSIENT EXCITATION OF THE FAST AND SLOW SPACE-CHARGE WAVES BY A POINT SOURCE Orélien, C. Randriamboarison (France) et al. (3 authors)
H5.P.16 (1932)	DISCONTINUITY ANALYSIS FROM CLUSTER MULTIPOINT MEASUREMENTS: A COMPARISON BETWEEN DIFFERENT APPROACHES Malcolm Dunlop (United Kingdom) et al. (4 authors)
H5.P.17 (2050)	LINEAR MODE COUPLING AND MICROWAVE POLARIZATION DIAGNOSTICS OF PLASMA CURRENT SHEETS Vladimir Kocharovsky (Russia) et al. (3 authors)
H5.P.18 (1223)	QUASI-PERIODIC OSCILLATIONS OF JUPITER'S INNER RADIATION BELT Yu-Qing Lou (United States of America)

HG1 SPACECRAFT AND GROUND OBSERVATIONS OF STIMULATED AND NATURAL SPACE-PLASMA WAVES (I, C, P)

K. Hashimoto (H, Japan) and R.R. Anderson (H, U.S.A.)

Oral session

Wednesday, August 21, 2002 - afternoon

Room: 0.8 Rome

HG1.O.1 PLASMA WAVE OBSERVATIONS BY THE CLUSTER WAVE EXPERIMENTS: WHAT WE LEARN FROM THE USE OF THE FOUR SPACECRAFT MEASUREMENTS

(1675) Nicole Cornilleau-Wehrin (France) et al. (15 authors) (I)

HG1.O.2 AN OVERVIEW OF RADIO PLASMA IMAGER ACCOMPLISHMENTS

(1147) James Green (United States of America) et al. (2 authors) (I)

HG1.O.3 THE SOURCE REGIONS OF AURORAL EMISSIONS

(1151) Robert Ergun (United States of America) (I)

HG1.O.4 GEOTAIL OBSERVATIONS OF ELECTROMAGNETIC WAVES IN THE MAGNETOSPHERE

(1773) Satoshi Yagitani (Japan) et al. (11 authors) (I)

HG1.O.5 THE FIELD AND WAVE EXPERIMENT ONBOARD THE INTERBALL-1: OVERVIEW OF MAIN RESULTS.

(694) Stanislav I. Klimov (Russia) (I)

HG1.O.6 WAVES OBSERVATIONS WITH ULYSSES AND WIND: FROM MICROSCOPIC PROCESSES TO MACROSCALE PHENOMENA.

(1584) Jean-Louis Bougeret (France) (I)

HG1.O.7 ARTIFICIAL MODIFICATION OF THE MAGNETOSPHERIC PLASMA DYNAMICS BY THE HF HEATING FACILITY

(1246) Mikhail Mogilevsky (Russia) et al. (10 authors)

HG1.O.8 MIDDLE MAGNETOSPHERE INTERACTION BETWEEN STORMTIME PC5 HYDROMAGNETIC AND MEDIUM ENERGY IONS

(545) Brian J. Fraser (Australia) et al. (6 authors)

HG1.O.9 SOME UNUSUAL VLF EMISSIONS OBSERVED AT HIGH LATITUDES

(1684) Jyrki Manninen (Finland) et al. (2 authors)

HG1.O.10 THE CHORUS ASSOCIATED WITH MAGNETIC STORMS AND SUBSTORMS, AS OBSERVED BY AN L=4 GROUND STATION - A STATISTICAL STUDY

(859) A.J. Smith (United Kingdom) et al. (2 authors)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

HG1.P.1 IDENTIFICATION OF WAVE MODES WITH LOCAL CURRENT DENSITY MEASUREMENTS IN THE IONOSPHERE

(812) Karima El Bourki (France) et al. (3 authors)

HG1.P.2 TRAVELING ION CYCLOTRON HARMONIC WAVES OBSERVED IN THE DAYSIDE POLAR REGION: SS-520-2 ROCKET EXPERIMENT

(1505) Yoshikatsu Ueda (Japan) et al. (7 authors)

HG1.P.3 OBSERVATIONS OF VLF EMISSIONS ASSOCIATED WITH AURORA RECORDING

(1431) Keyun Tang (P. R. China) et al. (4 authors)

HG1.P.4 (652)	DIRECT DETERMINATION OF THE PROPAGATION PATTERN OF AURORAL HISS O. Santolik (Czech Republic) et al. (6 authors)
HG1.P.5 (1171)	OBSERVATIONS OF ELECTRON PITCH ANGLE DISTRIBUTIONS AND WHISTLER MODE WAVES FROM CRRES DURING STORM TIME ELECTRON ACCELERATION TO MEV ENERGIES Richard B. Horne (United Kingdom) et al. (6 authors)
HG1.P.6 (941)	OBSERVATIONS AND ANALYSIS OF DISCRETE AND DIFFUSE WHISTLER MODE ECHOES RECEIVED BY RPI ON IMAGE Vikas Sonwalkar (United States of America) et al. (8 authors)
HG1.P.7 (559)	DETERMINATION OF THE SOURCE EXTENSION OF EM WAVES WITH THE FOUR CLUSTER SATELLITES Michel PARROT (France) et al. (5 authors)
HG1.P.8 (1568)	PROPAGATION CHARACTERISTICS OF VLF AND KILOMETRIC RADIATIONS OBSERVED BY INTERBALL 2 IN THE AURORAL REGION François Lefeuvre (France) et al. (4 authors)
HG1.P.9 (1269)	APPLYING IONOSPHERIC PLASMA RESONANCE SCALING LAWS TO INTERPRET ACTIVE AND PASSIVE PLANETARY MAGNETOSPHERIC RADIO SPECTRA Robert F. Benson (United States of America) et al. (5 authors)
HG1.P.10 (1946)	USING GEOTAIL, WIND, AND POLAR OBSERVATIONS OF PLASMA WAVE AND RADIO EMISSIONS TO FURTHER OUR UNDERSTANDING OF DYNAMIC HELIOSPHERIC AND MAGNETOSPHERIC PHENOMENA Roger R. Anderson (United States of America) et al. (12 authors)
HG1.P.11 (1443)	MULTI-SATELLITE OBSERVATIONS OF BANDED AKR AND ITS GENERATION MECHANISM Kozo Hashimoto (Japan) et al. (3 authors)
HG1.P.12 (1953)	LOCATION AND BEAMING PATTERNS OF AURORAL KILOMETRIC RADIATION INFERRED FROM MULTI-SPACECRAFT WBD CLUSTER OBSERVATIONS Robert Mutel (United States of America) et al. (3 authors)
HG1.P.13 (1875)	LOBE TRAPPED CONTINUUM RADIATION GENERATED IN THE DISTANT MAGNETOTAIL Hironobu TAKANO (Japan) et al. (4 authors)
HG1.P.14 (2076)	CUTOFF FREQUENCY OF ITRK / LOW-FREQUENCY BURSTS IN THE SOLAR WIND Jean-Louis STEINBERG (France) et al. (4 authors)
HG1.P.15 (2240)	OBSERVATIONS OF SUBSIDENCE OF SOLAR WIND OVER THE INNER HELIOSPHERE USING INTERPLANETARY SCINTILLATION METHOD DURING MAY 3-16, 1999. Veera Balasubramanian (India) et al. (3 authors)
HG1.P.16 (1250)	PLASMA WAVES AND SOUNDER (PWS) EXPERIMENT ON-BOARD THE NOZOMI(PLANET-B) SPACECRAFT Takayuki Ono (Japan) et al. (3 authors)
HG1.P.17 (1440)	THE MARTIAN PLASMA WAVE EXPERIMENT: EXPECTATIONS FOR NOZOMI H. Matsumoto (Japan) et al. (8 authors)
HG1.P.18 (1898)	PLASMA WAVE INVESTIGATION IN MERCURY: BEPICOLOMBO MMO MISSION Hiroshi Matsumoto (Japan)

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HG1.P.19	SCIENTIFIC - EDUCATIONAL MICRO-SATELLITE "KOLIBRI-2000": FIRST RESULTS OF MEASUREMENTS
(747)	Stanislav I. Klimov (Russia) et al. (14 authors)

HG2 EXPERIMENTS IN SPACE AND LABORATORY PLASMAS (I, C, P)

W.E. Amatucci (H, USA) and R Hatakeyama (H, Japan)

Oral session *Friday, August 23, 2002 - morning* *Room: 0.8 Rome*

- HG2.O.1 MULTI-SPACECRAFT OBSERVATIONS OF THIN LAYERS AT THE MAGNETOPAUSE
(683) Mats André (Sweden) et al. (7 authors) (I)
- HG2.O.2 THE MULTI-SPACECRAFT K-FILTERING TECHNIQUE: APPLICATION TO THE CLUSTER DATA
(488) Jean-Louis Pinçon (France) et al. (2 authors) (I)
- HG2.O.3 ROLE OF PARALLEL AND PERPENDICULAR FLOW SHEARS IN THE EXCITATION AND THE
(1338) SUPPRESSION OF SEVERAL TYPES OF LOW-FREQUENCY PLASMA INSTABILITIES
Rikizo Hatakeyama (Japan) et al. (2 authors)
- HG2.O.4 OBSERVATION OF MULTI-HARMONIC ELECTROSTATIC ION-CYCLOTRON WAVES IN THE
(1148) PRESENCE OF INHOMOGENEOUS PARALLEL ION FLOW
C. Teodorescu (United States of America) et al. (3 authors) (I)
- HG2.O.5 THE INTERNATIONAL SPACE STATION FLOATING POTENTIAL MEASUREMENT UNIT AND
(1970) INSTRUMENTATION VALIDATION IN LABORATORY PLASMA
Charles Swenson (United States of America) et al. (4 authors) (I)
- HG2.O.6 ASYMMETRIC RESPONSE OF A MAGNETIZED PLASMA TO APPLIED $E \times B$ DRIFTS
(789) Edward Thomas (United States of America) et al. (4 authors) (I)
- HG2.O.7 INTENSITY OF CHORUS EMISSIONS AND AMPLIFIED WHISTLER-MODE SIGNALS FROM VLF
(165) GROUND TRANSMITTERS
Robert Helliwell (United States of America)

Poster session *Thursday, August 22, 2002 - P2* *Room: Expo Foyer*

- HG2.P.1 DOPPLER RADAR MEASUREMENTS OF BOTTOMSIDE IONOSPHERE PERTURBATIONS
(142) ASSOCIATED WITH SPACE VEHICLE LAUNCH AND MANEUVERING SYSTEM BURNS
Leonid F. Chernogor (Ukraine) et al. (4 authors)
- HG2.P.2 PROPERTIES OF THE AURORAL ZONE IONOSPHERE INFERRED USING PLASMA CONTACTOR
DATA FROM THE INTERNATIONAL SPACE STATION
(423) Edgar A. Bering, III (United States of America) et al. (14 authors) (I)
- HG2.P.3 DRIFT-LIKE INSTABILITIES MODIFIED BY THE PERPENDICULAR FLOW SHEAR IN A FULLY
(1083) IONIZED COLLISIONLESS PLASMA
Toshiro Kaneko (Japan) et al. (4 authors)
- HG2.P.4 MODE CONVERSION OF PARALLEL-FLOW-SHEAR DRIVEN LOW-FREQUENCY INSTABILITIES BY
(1084) THE REVERSAL OF SHEAR SIGN IN A PLASMA
Eiji Tada (Japan) et al. (4 authors)
- HG2.P.5 ARTIFICIAL MODIFICATION OF THE MAGNETOSPHERIC CYCLOTRON MASER OPERATION
(1257) Mikhail Mogilevsky (Russia) et al. (10 authors)
- HG2.P.6 LABORATORY MODELING OF SPIKE-LIKE OPERATION OF SPACE CYCLOTRON MASERS
(1378) S. V. Golubev (Russia) et al. (7 authors)

Commission H

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HG2.P.7	LAANGMUIR PROBE COMPLEX IMPEDANCE MEASUREMENTS IN THE ION PLASMA FREQUENCY RANGE
(1942)	Nicolas LEMOINE (France) et al. (2 authors)

HGE1 LIGHTNING EFFECTS IN THE IONOSPHERE AND RADIATION BELTS (I, C, P)
S.A. Cummer (H, USA) and C.J. Rodger (G, New Zealand)

Oral session Monday, August 19, 2002 - afternoon Room: 0.8 Rome

HGE1.O.1 SUBIONOSPHERIC VLF IMAGING OF TRANSIENT IONOSPHERIC DISTURBANCES: EARLY/FAST
(1633) AND LIGHTNING-INDUCED ELECTRON PRECIPITATION (LEP) EVENTS
Umran Inan (United States of America) (I)

HGE1.O.2 DETERMINING THE SIZE OF LIGHTNING-INDUCED ELECTRON PRECIPITATION PATCHES
(890) Mark Clilverd (England) et al. (7 authors) (I)

HGE1.O.3 LIGHTNING-INDUCED ELECTRON PRECIPITATION DRIVEN BY GLOBAL THUNDERSTORM
(1638) Umran Inan (United States of America) et al. (6 authors)

HGE1.O.4 THOUGHTS ON SOLAR CYCLE VARIABILITY OF GLOBAL SPRITE OCCURRENCE RATES
(490) Martin Füllekrug (Germany) et al. (3 authors) (I)

HGE1.O.5 MONITORING OF GLOBAL LIGHTNING AND SPRITE ACTIVITY AT SYOWA STATION,
(564) ANTARCTICA
Hiroshi Fukunishi (Japan) et al. (2 authors) (I)

HGE1.O.6 AN IMPROVED ELF/VLF METHOD FOR GLOBALLY GEOLOCATING SPRITE-PRODUCING
(960) LIGHTNING
Colin Price (Israel) et al. (4 authors)

HGE1.O.7 ELECTRICAL DISCHARGE FROM A THUNDERCLOUD TOP TO THE LOWER IONOSPHERE
(857) Victor Pasko (United States of America) et al. (5 authors) (I)

HGE1.O.8 DYNAMIC AND ELECTROMAGNETIC EFFECTS OF STREAMER INTERACTION WITH LOCALIZED
(745) STRONG IONIZATION IRREGULARITIES IN SPRITES AND TROPOSPHERIC DISCHARGES
A. I. Belevkina (Russia) et al. (3 authors)

HGE1.O.9 ELECTRIC CURRENTS AND EXPONENTIAL RELAXATION OF OPTICAL EMISSIONS IN SPRITES
(1398) Christopher Barrington-Leigh (United States of America) et al. (3 authors)

HGE1.O.10 SPRITE CURRENT CHARACTERISTICS AND ANALYSIS
(950) Steven Cummer (United States of America) et al. (4 authors)

Poster session Tuesday, August 20, 2002 - P1 Room: Expo Foyer

HGE1.P.1 D-REGION MODIFICATION BY WHISTLER-INDUCED ELECTRON PRECIPITATION (WEP)
(481) Craig J. Rodger (New Zealand) et al. (3 authors)

HGE1.P.2 THREE-DIMENSIONAL SUBIONOSPHERIC VLF ELECTROMAGNETIC FIELD SCATTERING AND ITS
(376) APPLICATION TO TRIMPI EFFECT PROBLEM
Oleg Soloviev (Russia) et al. (2 authors)

HGE1.P.3 THE EFFECT OF LIGHTNING ON OUTER-BELT ELECTRONS
(955) William R. Sheldon (United States of America) et al. (2 authors)

HGE1.P.4 IONOSPHERIC RESPONSE TO THE THUNDERSTORM ACTIVITY
(2256) Jagdish Rai (India) et al. (4 authors) (I)

HGE1.P.5 (647)	IONISATION OF THE UPPER ATMOSPHERE DUE TO THE ELECTROMAGNETIC PULSE FROM A HORIZONTAL LIGHTNING DISCHARGE Mengu Cho (Japan) et al. (2 authors)
HGE1.P.6 (1975)	LARGE SCALE MODELING OF BLUE JETS AND BLUE STARTERS Victor Pasko (United States of America) et al. (2 authors)
HGE1.P.7 (718)	STREAMER AND DIFFUSE GLOW DYNAMICS OBSERVED IN SPRITES Elizabeth Gerken (United States of America) et al. (2 authors)
HGE1.P.8 (721)	TRANSIENT LUMINOUS EVENT STATISTICS, SOURCE STRENGTH ENERGETICS OBSERVED DURING THE 1999 SPRITES BALLOON CAMPAIGN Edgar A. Bering, III (United States of America) et al. (10 authors)
HGE1.P.9 (1590)	PRELIMINARY RESULTS ON SPRITE AND RELATED ELECTROMAGNETIC PHENOMENA DURING 2001/2002 WINTER LIGHTNING ACTIVITY IN JAPAN Yasuhide Hobara (France) et al. (2 authors)
HGE1.P.10 (1823)	LIGHTNING AND SPRITES OBSERVATIONS ON BOARD OF THE INTERNATIONAL SPACE STATION Elisabeth Blanc (France) et al. (3 authors)
HGE1.P.11 (2114)	PECULIARITIES IN THE VERTICAL AND HORIZONTAL ELECTRIC FIELD SIGNATURES IN THE PRESENCE OF A SPRITE Michael Baginski (United States of America) et al. (2 authors)
HGE1.P.12 (390)	SPRITES AND BUBBLES Thomas Prevenslik (P.R. China)
HGE1.P.13 (15)	TRIMPI OCCURRENCE AND THE GEOMAGNETIC ACTIVITY: ANALYSIS OF EVENTS DETECTED AT COMANDANTE FERRAZ BRAZILIAN ANTARCTIC STATION José Fernandez (Brazil) et al. (3 authors)
HGE1.P.14 (526)	RE-EXAMINATION OF THUNDERSTORM ELECTROSTATIC FIELDS Robert J. McCormick (New Zealand) et al. (3 authors)

HGE2 DYNAMICS OF DUSTY PLASMAS IN SPACE AND LABORATORY (I, C, P)

G. Ganguli (H, USA) and S. Avery (G, U.S.A.)

Oral session

Saturday, August 24, 2002 - morning

Room: 0.8 Rome

- HGE2.O.1 (1903) DRIFT AND STREAMING INSTABILITIES IN COLLISIONAL DUSTY PLASMAS
Marlene Rosenberg (United States of America) (I)
- HGE2.O.2 (673) EFFECTS OF CHARGED DUST IN THE EARTH'S MESOSPHERE
Lynette Gelinis (United States of America) et al. (5 authors) (I)
- HGE2.O.3 (523) INVESTIGATION OF PLASMA IRREGULARITIES ASSOCIATED WITH CHARGED DUST IN THE EARTH'S MESOSPHERE
Wayne Scales (United States of America) et al. (2 authors) (I)
- HGE2.O.4 (228) EXPERIMENTAL EVIDENCE FOR DUSTY PLASMAS IN THE POLAR SUMMER MESOSPHERE DURING DROPPS
Richard Goldberg (United States of America) (I)
- HGE2.O.5 (1199) ION-DUST TWO-STREAM INSTABILITY IN A DUSTY PLASMA
Glenn Joyce (United States of America) et al. (3 authors) (I)
- HGE2.O.6 (1081) COLLOIDAL PLASMAS UNDER MICROGRAVITY CONDITIONS _ RESULTS FROM PKE NEFEDOV
Vladimir E. Fortov (Russia)
- HGE2.O.7 (562) BALLISTIC MODELS OF DUST PARTICLE GROWTH AND DUST STRUCTURE FORMATION
Maria Shatalina (Russia) et al. (2 authors)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- HGE2.P.1 (152) PLASMA DIELECTRIC FOR A DUSTY PLASMA WITH MASS DISTRIBUTION AND CHARGE FLUCTUATIONS
Michael A Raadu (Sweden)
- HGE2.P.2 (501) EFFECT OF A GRAIN SIZE DISTRIBUTION ON THE RESPONSE OF A DUSTY PLASMA TO A MOVING TEST CHARGE
Muhammad Shafiq (Sweden) et al. (2 authors)
- HGE2.P.3 (527) LABORATORY EXPERIMENTS DESIGNED TO INVESTIGATE THE DYNAMICS OF MAGNETIZED DUSTY PLASMAS
Eric Reynolds (United States of America) et al. (6 authors)
- HGE2.P.4 (693) CHARGE SPECTRA OF COLLIDING DUST GRAINS
Andrei Sorokin (Russia)
- HGE2.P.5 (989) ON THE NATURE OF THE FORCE FIELD IN PLASMA WAKES
Giovanni Lapenta (United States of America)
- HGE2.P.6 (1621) ELECTRIC FIELD MEASUREMENTS IN THE POLAR SUMMER MESOSPHERE GATHERED ON THE DROPPS SOUNDING ROCKETS
Robert Pfaff (United States of America) et al. (4 authors)
- HGE2.P.7 (1774) COMPARISON OF PARTICLE TRANSPORT IN RF AND DC GLOW DISCHARGE COMPLEX PLASMAS
Edward Thomas (United States of America) et al. (8 authors)

Commission H

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HGE2.P.8	GENERATION OF DUST ACOUSTIC SHOCK WAVE DUE TO NONADIABATIC DUST CHARGE VARIATION IN ASTROPHYSICAL PLASMA
(2169)	Samiran Ghosh (India) et al. (4 authors)

HGJC ANALYSIS METHODS FOR PLASMA WAVES AND TURBULENCE (I, C, P)

T. Dudok de Wit (H, France) and A. Wernik (G, Poland)

Oral session Tuesday, August 20, 2002 - afternoon Room: 0.8 Rome

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| HGJC.O.1
(1111) | RADIO DIAGNOSTICS OF THE INTERPLANETARY MEDIUM
Michael Bird (Germany) (I) |
| HGJC.O.2
(1536) | TESTING MAGNETOSPHERIC MODELS BY MEASURING THE STATISTICAL PROPERTIES OF SOLAR WIND AND MAGNETOSPHERIC PLASMAS.
Mervyn Freeman (United Kingdom) et al. (3 authors) (I) |
| HGJC.O.3
(1606) | RADIO DIAGNOSTICS OF TURBULENCE IN THE INTERSTELLAR & INTERGALACTIC MEDIA
James Cordes (United States of America) (I) |
| HGJC.O.4
(1673) | BURSTY BEHAVIOUR IN COMPLEX SYSTEMS: EXAMPLES FROM PLASMA PHYSICS
Vincenzo Carbone (Italy) (I) |
| HGJC.O.5
(1685) | STATISTICAL STUDIES OF LOW-FREQUENCY ELECTROSTATIC WAVES IN THE IONOSPHERIC E REGION
Hans Pécseli (Norway) (I) |
| HGJC.O.6
(1037) | A MODEL FOR NONLINEAR WAVE OBSERVED IN UPPER IONOSPHERE
Jiankui Shi (P. R. China) et al. (4 authors) |

Poster session Tuesday, August 20, 2002 - P1 Room: Expo Foyer

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| HGJC.P.1
(1038) | IDENTIFICATION OF THE CURRENT SYSTEMS ASSOCIATED WITH GEOMAGNETIC ACTIVITY
Thierry Dudok de Wit (France) et al. (2 authors) |
| HGJC.P.2
(1091) | OBSERVATION OF RADIATION PRESSURE EFFECTS IN THE DISTANT MAGNETOSPHERE.
Marcin Grzesiak (Poland) |
| HGJC.P.3
(1424) | ANALYSIS OF PLASMA WAVE SCATTERING BY USING TECHNIQUE OF WAVE DIGITAL FILTERS
Toshio Utsunomiya (Japan) |
| HGJC.P.4
(1920) | APPLICATION OF LOCAL WAVELET CORRELATION TO ESTIMATION OF NORMAL VELOCITY OF PLASMA DISCONTINUITIES FROM MULTI-POINT SATELLITE MEASUREMENTS
Jan Soucek (Czech Republic) et al. (3 authors) |
| HGJC.P.5
(2126) | NONLINEAR DYNAMIC STRUCTURES IN MODIFIED IONOSPHERIC PLASMA
Andrey Kochetov (Russia) et al. (2 authors) |

Chair: J.N. Hewitt (USA) Vice-chair: M. Inoue (Japan)

Roy S. Booth (Sweden)

Room: 0.5 Paris

J1.O.9 DEVELOPMENTS IN NORTH AMERICA AT LONGER WAVELENGTHS
(2255) Peter Napier (United States of America) (I)

Room: Expo Foyer

J1.P.5 (1534)	OBSERVATORY REPORT: MIT HAYSTACK OBSERVATORY Joseph Salah (United States of America)
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Commission J

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| J1.P.6
(1661) | FIVE YEARS OF THE VLBI SPACE OBSERVATORY PROGRAMME
Hisashi Hirabayashi (Japan) |
| J1.P.7
(1712) | NOTO STATION ACTIVITY: CURRENT STATUS AND PERSPECTIVES
Gino Tuccari (Italy) |
| J1.P.8
(1959) | THE GREEN BANK TELESCOPE
Philip Jewell (United States of America) |
| J1.P.9
(2146) | THE LARGE MILLIMETER TELESCOPE
F. Peter Schloerb (United States of America) et al. (2 authors) |
| J1.P.10
(2165) | MULTI-EPOCH VLBI OBSERVATIONS OF BL LAC OBJECT 0716+714
Wenwu Tian (P. R. China) et al. (4 authors) |

J2 POST-COBE MICROWAVE BACKGROUND STUDIES (I,C,P)
Jeffrey Peterson (USA)

Oral session Thursday, August 22, 2002 - morning Room: 0.5 Paris

- J2.O.1 POWER SPECTRUM OF THE COSMIC MICROWAVE BACKGROUND RADIATION FROM THE COSMIC BACKGROUND IMAGER
(1902) Timothy Pearson (United States of America) (I)
- J2.O.2 INTERFEROMETRIC OBSERVATIONS OF CMB TEMPERATURE AND POLARIZATION WITH DASI
(2041) John Kovac (United States of America) et al. (2 authors) (I)
- J2.O.3 SYSTEMATIC OBSERVATION OF SUNYAEV-ZEL'DOVICH EFFECT TOWARD MEDIUM DISTANT GALAXY CLUSTERS AT 43 GHZ
(1963) Masato TSUBOI (Japan) et al. (9 authors) (I)
- J2.O.4 SUNYAEV-ZEL'DOVICH MEASUREMENTS WITH THE CBI
(1926) Brian Mason (United States of America)
- J2.O.5 INTERFEROMETERS VERSUS FOCAL PLANE ARRAYS FOR COSMIC MICROWAVE BACKGROUND OBSERVATIONS
(2065) Jeffrey Peterson (United States of America) (I)
- J2.O.6 THE PLANCK HIGH FREQUENCY INSTRUMENT
(669) Jean-Loup Puget (France) et al. (2 authors) (I)
- J2.O.7 THE SPORT RADIOMETERS
(1477) Jader Monari (Italy)
- J2.O.8 CMB OBSERVATIONS USING THE SKA
(710) Ravi Subrahmanyam (Australia) et al. (2 authors) (I)
- J2.O.9 COMSIC MICROWAVE BACKGROUND ANISOTROPY DATA FROM ACBAR
(2068) Peterson Jeffrey (United States of America) et al. (15 authors) (I)

J3 WIDE-FIELD IMAGING AND MOSAICING (I,C,P)

Richard A. Perley (USA)

Oral session

Tuesday, August 20, 2002 - morning

Room: 0.5 Paris

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| J3.O.1
(1588) | WIDE-FIELD IMAGING IN CLASSIC AIPS
Eric W. Greisen (United States of America) (I) |
| J3.O.2
(944) | CALIBRATION AND IMAGING OF 74 MHZ DATA FROM THE VERY LARGE ARRAY
William Cotton (United States of America) et al. (2 authors) (I) |
| J3.O.3
(1619) | OVERVIEW OF MOSAICING AND WIDE-FIELD IMAGING IN AIPS++
Athol Kemball (United States of America) et al. (2 authors) (I) |
| J3.O.4
(1938) | PARALLELIZATION OF WIDE-FIELD IMAGING IN AIPS++
Kumar Golap (United States of America) et al. (4 authors) |
| J3.O.5
(1910) | MOSAICING WITH THE BIMA ARRAY
Tamara Helfer (United States of America) (I) |
| J3.O.6
(1548) | WIDE FIELD IMAGING WITH MM/SUBMM ARRAYS
Francois Viallefond (France) (I) |
| J3.O.7
(2117) | MOSAICING AT DRAO
Peter Dewdney (Canada) et al. (2 authors) |
| J3.O.8
(1808) | THE SOUTHERN GALACTIC PLANE SURVEY: NEW VIEWS OF THE DEEP SOUTH
Bryan Gaensler (United States of America) et al. (4 authors) (I) |
| J3.O.9
(2046) | THE VLA GALACTIC PLANE SURVEY
Jeroen Stil (Canada) et al. (6 authors) |
| J3.O.10
(1844) | BEYOND THE IGPS - FUTURE RADIO SURVEYS OF THE GALACTIC PLANE
John Dickey (United States of America) (I) |
| J3.O.11
(2275) | HI MOSAICING WITH THE ATCA
Naomi McClure-Griffiths (Australia) |

J4 PROBING THE UNIVERSE AT LOW FREQUENCIES (I,C,P)

Namir E. Kassim (USA)

Oral session

Tuesday, August 20, 2002 - afternoon

Room: 0.5 Paris

J4.O.1 LOW RADIO FREQUENCY IMAGING WITH THE GMRT
(703) Pramesh Rao (India) (I)

J4.O.2 THE 74 MHZ CAPABILITY ON THE VERY LARGE ARRAY
(1554) Rick Perley (United States of America) et al. (3 authors) (I)

J4.O.3 SEEING THROUGH THE INTERSTELLAR MEDIUM AT LOW RADIO FREQUENCIES
(209) Joseph Lazio (United States of America) (I)

J4.O.4 LONG WAVELENGTH OBSERVATIONS OF SOLAR AND EXTRA SOLAR SYSTEM BODIES
(971) Bryan Butler (United States of America) et al. (2 authors) (I)

J4.O.5 GENERALISED SELF_CALIBRATION FOR LOFAR
(1087) Jan Noordam (The Netherlands) (I)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

J4.P.1 A FEASIBILITY STUDY FOR A VERY LOW FREQUENCY SATELLITE BASED RADIO
INTERFEROMETER
(587) Divya Oberoi (France) et al. (2 authors)

J4.P.2 IDENTIFICATION OF PULSE GROUPS OF DECAMETER RADIO WAVES AT THE CENTER PARTS OF
OUR GALAXY AND ANDROMEDA NEBULA - RELATION TO SUPER MASSIVE BLACK HOLES
(664) Hiroshi Oya (Japan) et al. (2 authors)

J4.P.3 THE TOMOGRAPHIC TECHNIQUE FOR RECONSTRUCTION OF THE COSMIC RADIO SOURCES
IMAGES ON THE BASIS OF RADIO INTERFEROMETRIC DATA
(695) Volodymyr Koshovyy (Ukraine) et al. (3 authors)

J4.P.4 LOW-FREQUENCY RADIO TRANSIENTS IN THE GALACTIC CENTER
(1316) Joseph Lazio (United States of America) et al. (3 authors) (I)

J4.P.5 LOW FREQUENCY RADIO RECOMBINATION STUDY WITH LOFAR
(1613) Sheperd Doeleman (United States of America)

J4.P.6 WIDEBAND OBSERVATIONS OF PULSAR RADIO EMISSION BELOW 30 MHZ
(1924) Alain Lecacheux (France) et al. (5 authors)

J4.P.7 PLANETARY SCIENCE WITH THE LOW FREQUENCY ARRAY (LOFAR)
(2078) Philippe ZARKA (France)

J4.P.8 74 MHZ OBSERVING WITH THE VLA-PT LINK
(2137) Namir Kassim (United States of America) et al. (12 authors)

J5 RADIO AND RADAR STUDIES OF THE SOLAR SYSTEM (I,C,P)

Bryan Butler (USA)

Oral session Wednesday, August 21, 2002 - afternoon Room: 0.5 Paris

- J5.O.1
(1311) PLANETARY RADAR ASTRONOMY: A NEW ERA
Donald Campbell (United States of America) (I)
- J5.O.2
(1206) RADAR DISCOVERY AND CHARACTERIZATION OF BINARY ASTEROIDS
Jean-Luc Margot (United States of America) et al. (9 authors)
- J5.O.3
(1635) GRAZING BISTATIC RADAR OBSERVATIONS USING MARS GLOBAL SURVEYOR
Richard Simpson (United States of America)
- J5.O.4
(1652) FOUR-STATION INTERFEROMETRIC RADAR OBSERVATIONS OF MARS EXPLORATION ROVER LANDING SITES
Martin Slade (United States of America) et al. (9 authors)
- J5.O.5
(1618) ACTIVE AND PASSIVE MICROWAVE OBSERVATIONS OF VENUS
Jon Jenkins (United States of America) (I)
- J5.O.6
(1925) EFFECTS OF ATMOSPHERIC MULTIPATH PROPAGATION ON RADIO OCCULTATION OBSERVABLES AND MEASUREMENTS
G. Leonard Tyler (United States of America) et al. (4 authors)
- J5.O.7
(903) OBSERVATIONS OF THE WATER LINE AT 557 GHZ IN COMETS WITH THE ODIN SATELLITE
Nicolas BIVER (The Netherlands) et al. (8 authors)
- J5.O.8
(1273) CALIBRATING THE CASSINI RADAR INSTRUMENT FOR PASSIVE RADIOMETRY
Michael A. Janssen (United States of America) et al. (8 authors) (I)
- J5.O.9
(961) DSN AND GAVRT OBSERVATIONS OF JUPITER AT 13 GHZ AND THE CALIBRATION OF THE CASSINI RADAR INSTRUMENT FOR PASSIVE RADIOMETRY
Michael J. Klein (United States of America) et al. (9 authors)
- J5.O.10
(1622) JUPITER'S NON-THERMAL RADIO EMISSION: UNVEILING THE JOVIAN INNER RADIATION BELTS THROUGH OBSERVATION AND MODELING
Scott Bolton (United States of America) et al. (11 authors) (I)

Poster session Tuesday, August 20, 2002 - P1 Room: Expo Foyer

- J5.P.1
(388) GOLDSTONE/VLA RADAR RESULTS
Bryan Butler (United States of America) et al. (3 authors)
- J5.P.2
(1271) CHARACTERIZING AND RESOLVING DIFFRACTIVE STRUCTURES IN PLANETARY RADIO OCCULTATION USING MULTIPLE PHASE SCREENS
Chin San Han (United States of America) et al. (2 authors)
- J5.P.3
(1605) SEASONAL CHANGE IN THE DEEP ATMOSPHERE OF URANUS
Mark Hofstadter (United States of America) et al. (2 authors)
- J5.P.4
(1745) BISTATIC RADAR TEST ACTIVITIES AT THE ITALIAN MEDICIAN RADIOTELESCOPES
Stelio Montebugnoli (Italy) et al. (15 authors)

J6 RECENT SCIENTIFIC DEVELOPMENTS (I,C,P)

Makoto Inoue (Japan)

Oral session Thursday, August 22, 2002 - afternoon Room: 0.5 Paris

J6.O.1 THE DEEP INTERFEROMETRIC VSOP-ARECIBO SURVEY (DIVAS)
(1665) Philip Edwards (Japan) et al. (5 authors)

J6.O.2 SOLAR BURSTS OBSERVED WITH THE NEW SOLAR SUBMILLIMETER-W TELESCOPE
(179) Pierre Kaufmann (Brazil)

J6.O.3 RADIO POLARIMETRY AND SELF CAL IN THE 21ST CENTURY: HARNESSING THE POWER OF
(447) SIMPLE MATRIX ALGEBRA
Johan Hamaker (The Netherlands)

Poster session Thursday, August 22, 2002 - P2 Room: Expo Foyer

J6.P.1 SEYFERT GALAXIES: NUCLEAR RADIO STRUCTURE AND UNIFICATION.
(175) DharamVir Lal (India) et al. (3 authors)

J6.P.2 WARM GAS AND COLD DUST IN NEARBY GALAXIES
(207) Richard Wielebinski (Germany) et al. (3 authors)

J6.P.3 RADAR MEASUREMENTS OF THE LEONID METEOR SHOWER
(224) Leonardo Samuel Schijvarg (Israel) et al. (4 authors)

J6.P.4 EXPLORING STELLAR-PULSATION-DRIVEN SHOCK WAVES REVEALED IN THE KINEMATICS OF
(817) WATER MASERS AROUND RT VIR
Hiroshi Imai (Japan) et al. (9 authors)

J6.P.5 THE EFFELSBERG MEDIUM GALACTIC LATITUDE SURVEY
(838) Wolfgang Reich (Germany) et al. (6 authors)

J6.P.6 SLOW SOLAR WIND ON SOLAR ACTIVITY MAXIMUM 2000: SOURCES AND STEAM STRUCTURE
(900) TYPES
Natalia Lotova (Russia) et al. (3 authors)

J6.P.7 4-GSPS 2-BIT FX CORRELATOR WITH 262144-POINTS FFT
(970) Satoru Iguchi (Japan) et al. (5 authors)

J6.P.8 VLA+PT OBSERVATIONS OF 19 RADIO STARS
(1063) Alan Fey (United States of America) et al. (6 authors)

J6.P.9 HI LINE OBSERVATIONS OF NEAR-INFRARED SELECTED LOW-SURFACE BRIGHTNESS GALAXIES
(1298) Wim Van Driel (France) et al. (6 authors)

J6.P.10 VLBI ASTROMETRY WITH DUAL-BEAM SYSTEM OF VERA
(1492) Mareki Honma (Japan) et al. (2 authors)

J6.P.11 DEVELOPMENT AND PERFORMANCE OF 4-GSPS 2-BIT ANALOG TO DIGITAL CONVERTER WITH
(1607) GAAS ICS
Sachiko Okumura (Japan) et al. (7 authors)

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- J6.P.12 THE RESULTS OF TEST OBSERVATIONS WITH 15.6-KHZ FREQUENCY-RESOLUTION 2-GHZ
BANDWIDTH FX CORRELATOR SYSTEM
(1642) Mahoko Okiura (Japan) et al. (5 authors)
- J6.P.13 RAINBOW OBSERVATIONS OF DENSE MOLECULAR GAS IN THE EVOLVED STARBURST GALAXY
NGC 3628
(1660) Toshihito Shibatsuka (Japan) et al. (9 authors)
- J6.P.14 VSOP-2, A SECOND GENERATION SPACE-VLBI MISSION
(1663) Yasuhiro Murata (Japan) et al. (9 authors)
- J6.P.15 LE SPECTROMETRE HAUTE RESOLUTION DE HIFI SUR HERSCHEL
(1757) Moncef Belgacem (France) et al. (5 authors)
- J6.P.16 HIGH PRECISION TIMING OF MILLISECOND PULSARS AT NANCAY
(1868) Ismael Cognard (France)
- J6.P.17 PROBING SHOCK STRUCTURES IN THE WOLF-RAYET BINARIES WR146, 147 USING MAS-SCALE
RADIO MAPS
(1955) Robert Mutel (United States of America) et al. (2 authors)
- J6.P.18 THE SUB-PARSEC-SCALE STRUCTURE AND EVOLUTION OF CENTAURUS A
(2156) Steven Tingay (Australia) et al. (3 authors)
- J6.P.19 AN ESTIMATED ALL SKY ROTATION MEASURE MAP
(2172) Melanie Johnston-Hollitt (Australia) et al. (3 authors)

J7 ANTENNA METROLOGY AND ACTIVE CONTROL (I,P)

Jacob Baars (Germany)

Oral session *Friday, August 23, 2002 - morning* *Room: 0.5 Paris*

- J7.O.1
(1413) CURRENT PROBLEMS AND PROGRESS IN HIGH PERFORMANCE ASTRONOMICAL ANTENNAS
Richard Hills (England) (I)
- J7.O.2
(410) THE THERMAL BEHAVIOUR AND THERMAL CONTROL OF RADIO TELESCOPES
Albert Greve (France) (I)
- J7.O.3
(541) DYNAMIC WIND EFFECTS ON LARGE TELESCOPES
David Smith (United States of America) (I)
- J7.O.4
(1076) POINTING CONTROL THROUGH FLEXIBLE BODY COMPENSATION
Hans Juergen Kaercher (Germany) et al. (3 authors) (I)
- J7.O.5
(964) SURFACE MEASUREMENTS OF LARGE ANTENNAS AT HIGH ACCURACY
William Peters (United States of America) (I)
- J7.O.6
(639) ACTIVE SURFACE ARCHITECTURES OF LARGE RADIO TELESCOPES
David Parker (United States of America) et al. (2 authors) (I)
- J7.O.7
(1394) RESETTING ARECIBO'S REFLECTOR SURFACE USING PHOTOGRAMMETRY
Donald Campbell (United States of America) et al. (5 authors)

Poster session *Thursday, August 22, 2002 - P2* *Room: Expo Foyer*

- J7.P.1
(945) CORRECTION OF THERMALLY-INDUCED POINTING AND FOCUS ERRORS ON THE OVRO 10-M
ANTENNAS
James Lamb (United States of America) et al. (2 authors)
- J7.P.2
(1049) INTEGRATED SIMULATION MODEL FOR THE ALMA ANTENNAS
Dan Moraru (Sweden) et al. (2 authors)
- J7.P.3
(1387) HOLOGRAPHIC SURFACE QUALITY MEASUREMENTS OF THE SUB-MILLIMETER ARRAY
ANTENNAS
T.K. Sridharan (United States of America) et al. (3 authors)
- J7.P.4
(1414) HIGH-RESOLUTION MILLIMETRE-WAVE HOLOGRAPHY ON JCMT
Richard Hills (England)
- J7.P.5
(1415) PHASE-RETRIEVAL MEASUREMENTS OF ANTENNA SURFACES USING ASTRONOMICAL
SOURCES
Bojan Nickolic (England) et al. (3 authors)
- J7.P.6
(1513) THE ACTIVE SURFACE FOR NOTO RADIOTELESCOPE
Alessandro Orfei (Italy) et al. (6 authors)
- J7.P.7
(1838) DEVELOPEMENT OF FILM LENS ANTENNAS FOR LARGE APERTURE TELESCOPES
Hideki UJIHARA (Japan) et al. (2 authors)
- J7.P.8
(1958) ANTENNA VIBRATION MEASUREMENTS WITH ACCELEROMETERS
Nobuharu UKITA (Japan) et al. (2 authors)

J8 RADIO ASTRONOMY WITH HIGH DATA RATES (I,C,P)

Huib van Langevelde (The Netherlands)

Oral session

Friday, August 23, 2002 - afternoon

Room: 0.5 Paris

- J8.O.1 THE FUTURE OF DATA REDUCTION IN RADIO ASTRONOMY
(1620) Athol Kemball (United States of America) et al. (2 authors) (I)
- J8.O.2 VERA -NEW VLBI INSTRUMENT FREE FROM ATMOSPHERE-
(1281) Hideyuki Kobayashi (Japan) et al. (5 authors)
- J8.O.3 THE FUTURE OF LONG-BASELINE INTERFEROMETRY
(1911) Simon Garrington (United Kingdom) (I)
- J8.O.4 DEEP, WIDE-FIELD VLBI IMAGING
(226) Michael Garrett (The Netherlands)
- J8.O.5 CALIBRATION AND DATA PROCESSING STRATEGIES FOR ALMA
(634) Robert Lucas (France) (I)
- J8.O.6 ENHANCED SCIENCE WITH THE 2ND-GENERATION CORRELATOR FOR THE ATACAMA
MILLIMETER / SUBMILLIMETER ARRAY (ALMA)
(722) Munetake Momose (Japan) et al. (5 authors)
- J8.O.7 PROCESSING STRATEGIES FOR LOFAR: A STEPPING STONE TOWARDS THE SKA
(1666) Marco De Vos (The Netherlands) (I)
- J8.O.8 GAIN ESTIMATION METHODS FOR RADIO TELESCOPE ARRAYS
(934) Albert-Jan Boonstra (The Netherlands) et al. (2 authors)

Poster session

Thursday, August 22, 2002 - P2

Room: Expo Foyer

- J8.P.1 GMRT CORRELATOR SYSTEM
(87) Sandeep Sirothia (India)
- J8.P.2 2-GBPS VLBI IN OBSERVATIONS AND A NEW VLBI ARCHETYPE WITH NETWORK
(663) Junichi Nakajima (Japan) et al. (5 authors)
- J8.P.3 ALMA SECOND GENERATION CORRELATOR - AN FX CASE
(855) Sachiko Okumura (Japan) et al. (4 authors)
- J8.P.4 PIPELINE PROCESSING OF VLBI DATA
(924) Cormac Reynolds (The Netherlands) et al. (3 authors)
- J8.P.5 RADIATION TESTING OF HIGH-SPEED LSIS FOR THE NEXT SPACE VLBI SATELLITE
(1507) Kiyoaki Wajima (Japan) et al. (4 authors)
- J8.P.6 HIGH SPEED DATA PROCESSING AT THE WSRT
(1521) Mark Bentum (The Netherlands)
- J8.P.7 MARK 5 DISC-BASED GBPS VLBI DATA SYSTEM
(1614) Alan Whitney (United States of America)
- J8.P.8 GALAXY AND KSP: REAL-TIME VLBI TRIALS IN JAPAN
(1780) Hisao Uose (Japan) et al. (9 authors)

Commission J

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|-------------------|--|
| J8.P.9
(1869) | DEVELOPMENT OF A COHERENT PULSAR DEDISPERSOR FOR NANCAY
Ismael Cognard (France) |
| J8.P.10
(1890) | VLBI DATA TRANSFER USING PARALLEL IP STREAMS IN GALAXY PROJECT
Sotetsu Iwamura (Japan) et al. (6 authors) |
| J8.P.11
(1949) | A LOW-COST PORTABLE FAST SAMPLING SYSTEM FOR ASTRONOMICAL APPLICATIONS
Jean-Luc Margot (United States of America) |
| J8.P.12
(2034) | ASTRONOMICAL OBSERVATIONS WITH GALAXY, A REAL-TIME VLBI NETWORK
Kenta Fujisawa (Japan) et al. (11 authors) |

JBC		WIDEBAND ARRAY TECHNOLOGY AND SYSTEMS (I)		
		Arnold van Ardenne (J, The Netherlands) and Graeme L. James (B, Australia)		
		<i>Oral session</i>	<i>Wednesday, August 21, 2002 - morning</i>	<i>Room: 0.5 Paris</i>
JBC.O.1 (1616)	THE NEXT STEP FOR THE VLA: A SYSTEM OVERVIEW AND TECHNOLOGIES FOR THE EVLA Peter Napier (United States of America) (I)			
JBC.O.2 (1722)	ON NEW TECHNOLOGIES AND SYSTEMS DEVELOPED FOR THE INTERNATIONAL ATACAMA LARGE MILLIMETER ARRAY (ALMA) Alain BAUDRY (France) (I)			
JBC.O.3 (1720)	LOFAR: SYSTEM LEVEL CHALLENGES IN THE DESIGN OF A MULTI-PURPOSE ARRAY Marco De Vos (The Netherlands) et al. (2 authors) (I)			
JBC.O.4 (977)	THE ALLEN TELESCOPE ARRAY Douglas Bock (United States of America) (I)			
JBC.O.5 (1436)	THE GLOBAL SQUARE KILOMETRE ARRAY PROJECT; CONCEPTS AND TECHNOLOGIES Arnold Van Ardenne (The Netherlands) (I)			
JBC.O.6 (1002)	PROGRESS TOWARDS A LUNEBURG LENS SOLUTION FOR A LARGE, WIDEBAND, MULTI-BEAM ARRAY RADIO TELESCOPE Graeme James (Australia) et al. (4 authors)			
JBC.O.7 (1300)	FIRST CELESTIAL MEASUREMENT RESULTS OF THE THOUSAND ELEMENT ARRAY Jan-Geralt Bij de Vaate (The Netherlands) et al. (3 authors)			
		<i>Poster session</i>	<i>Tuesday, August 20, 2002 - P1</i>	<i>Room: Expo Foyer</i>
JBC.P.1 (445)	TRUNCATION EFFECTS IN TAPERED-SLOT ANTENNA ARRAYS FOR RADIO ASTRONOMY APPLICATIONS Christophe Craeye (The Netherlands) et al. (3 authors)			
JBC.P.2 (771)	COMPACT HELICAL ARRAY ANTENNAS FOR VLBI CO-AXIAL S-X BAND FEEDS Takashi Kasuga (Japan) et al. (3 authors)			
JBC.P.3 (1001)	THE DESIGN OF ACTIVE RECEIVING ANTENNAS OR ARRAYS FOR BROADBAND LOW-NOISE OPERATION Andrew Parfitt (Australia) et al. (2 authors)			
JBC.P.4 (1115)	A MULTI-TERABIT OPTICAL FIBRE NETWORK FOR A LOFAR TELESCOPE Jack Verhoosel (The Netherlands) et al. (5 authors)			
JBC.P.5 (1188)	DUAL-POLARIZED VIVALDI FEED FOR WIDEBAND ARRAY APPLICATIONS Alexandr Golovkov (Russia) et al. (5 authors)			
JBC.P.6 (1192)	MULTIBEAM ARRAY RECEIVER MODULS OF LINEAR AND CIRCULAR POLARIZATION Vladimir Khaikin (Russia) et al. (7 authors)			
JBC.P.7 (1326)	SQUARE KILOMETRE ARRAY (SKA) PROTOTYPING IN AUSTRALIA - AN OVERVIEW Peter Hall (Australia)			
JBC.P.8 (1357)	ACTIVE BALUN/DIPOLE DEVELOPMENT FOR LOFAR Ken Stewart (United States of America) et al. (3 authors)			

JBC.P.9 (1629)	A WIDEBAND UPGRADE FOR THE AUSTRALIA TELESCOPE COMPACT ARRAY Dick Ferris (Australia) et al. (2 authors)
JBC.P.10 (2136)	INTERFEROMETER ARRAY DESIGN Frederic Boone (France)
JBC.P.11 (2222)	SIGE LNA NOISE TEMPERATURE PROJECTIONS FOR THE SQUARE KILOMETRE ARRAY Aaron Chippendale (Australia)

JFC INTERFERENCE MITIGATION IN RADIO SCIENCE (I, C, P)
Michael Kesteven (J, Australia) and Wolfgang-Martin Boerner (F, USA)

Oral session Monday, August 19, 2002 - afternoon Room: 0.5 Paris

- JFC.O.1 (622) RFI SUBTRACTION WITH A REFERENCE HORN: APPLICATION TO PULSARS AND VLBI
Frank Briggs (The Netherlands) (I)
- JFC.O.2 (604) MITIGATION OF CONTINUOUS INTERFERENCE IN RADIO ASTRONOMY USING SPATIAL FILTERING
Sebastiaan Van der Tol (The Netherlands) et al. (4 authors) (I)
- JFC.O.3 (1195) ANALYSIS OF ADAPTIVE ARRAY ALGORITHM PERFORMANCE FOR SATELLITE INTERFERENCE CANCELLATION IN RADIO ASTRONOMY
Lisha Li (United States of America) et al. (2 authors) (I)
- JFC.O.4 (167) RFI MITIGATION AT WSRT: ALGORITHMS, TEST OBSERVATIONS, SYSTEM IMPLEMENTATION
W. A. Baan (The Netherlands) et al. (3 authors) (I)
- JFC.O.5 (1966) A RADIO FREQUENCY INTERFERENCE MITIGATION STRATEGY FOR THE ALLEN TELESCOPE ARRAY
Geoffrey Bower (United States of America)
- JFC.O.6 (115) POST CORRELATION VERSUS REAL TIME ADAPTIVE RFI CANCELLATION
Daniel A. Mitchell (Australia) et al. (3 authors) (I)
- JFC.O.7 (962) INTERFERENCE REDUCTION FACTORS AND TECHNIQUES APPLICABLE TO SPACE RADIO ASTRONOMY
Valery Altunin (United States of America)
- JFC.O.8 (1156) ACTIVE MICROWAVE AND MILLIMETER WAVE SAR REMOTE SENSING
Bryan Huneycutt (United States of America) et al. (3 authors) (I)
- JFC.O.9 (1793) DETECTION AND FILTERING OF LOW-LEVEL RF-INTERFERENCE IN MICROWAVE AND MILLIMETER-WAVE RADIOMETRY
Guy Rochard (France) et al. (4 authors) (I)

Poster session Tuesday, August 20, 2002 - P1 Room: Expo Foyer

- JFC.P.1 (400) ROBUST RECEIVER FOR RFI MITIGATION IN RADIO ASTRONOMY
Rodolphe Weber (France) et al. (4 authors)
- JFC.P.2 (638) A SHORT PULSE BLANKER FOR WIDE BAND RADIO SPECTROSCOPY
Philippe Picard (France) et al. (4 authors)
- JFC.P.3 (885) CANCELLATION OF TV INTERFERENCE
Anish Roshi (United States of America)
- JFC.P.4 (912) ROBUSTNESS IN THE RFI DETECTION FOR TIME-BLANKING
Philippe Ravier (France) et al. (2 authors)
- JFC.P.5 (1812) CHARACTERIZATION OF RFI WITH THE NANCAY DECAMETRIC ARRAY AND DECIMETRIC RADIO TELESCOPE
Jean-Michel Martin (France) et al. (5 authors)

Commission J

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- JFC.P.6 INTERFERENCE MITIGATION IN PASSIVE MICROWAVE RADIOMETRY
(1952) Albin Gasiewski (United States of America) et al. (4 authors) (I)
- JFC.P.7 POST-DETECTION INTERFERENCE REJECTION AND WEAK BURST DETECTION IN TIME
(2080) FREQUENCY SPECTROGRAMS
Philippe ZARKA (France) et al. (3 authors)
- JFC.P.8 USER COLLISION FOR JOINT UTILIZATION OF ELECTROMAGNETIC FREQUENCY BAND:
FREQUENCY ALLOCATION, INTERFERENCE REDUCTION AND SECURITY THREAT MITIGATION
IN RADIO PROPAGATION AND REMOTE SENSING
(930) Wolfgang-Martin Boerner (United States of America) et al. (3 authors) (I)

Commission K - ELECTROMAGNETICS IN BIOLOGY AND MEDICINE

Chair: S. Ueno (Japan)

Vice-chair: B. Veyret (France)

K1 MECHANISMS & MODELLING OF ELECTROMAGNETIC INTERACTION WITH BIOLOGICAL SYSTEMS (I, C, P)

F. Barnes (USA) and G. d'Inzeo (Italy)

Oral session

Monday, August 19, 2002 - afternoon

Room: 2.1 Colorado

- K1.O.1 OVERVIEW OF BIOELECTROMAGNETIC INTERACTION MODELS: PROPOSAL FOR A UNIFYING INTEGRATED METHODOLOGY
(2229) Micaela Liberti (Italy) et al. (4 authors) (I)
- K1.O.2 ELECTROMAGNETIC FIELDS: BIOLOGICAL TRANSDUCTION MECHANISMS
(1930) Martin Blank (United States of America) et al. (2 authors) (I)
- K1.O.3 A THEORETICAL STUDY OF THE EFFECTS OF INHOMOGENIOUS RF FIELDS IN THE VICINETY OF MEMBRANES
(723) Frank Barnes (United States of America) et al. (2 authors) (I)
- K1.O.4 A DISCUSSION ON THERMAL _BATH ROLE IN THE FRAMEWORK OF THE INTERACTIONS BETWEEN WEAK ELECTROMAGNETIC FIELDS AND BIOSYSTEMS
(2217) Bruno Bianco (Italy) et al. (4 authors)
- K1.O.5 EMF MODULATION OF VOLATILE ORGANIC COMPOUND METABOLISM - A POSSIBLE BASIS FOR CO- CARCINOGENESIS
(2090) Howard Wachtel (United States of America) et al. (3 authors)
- K1.O.6 HYPOTHESIS OF NATURAL RADAR TRACKING AND COMMUNICATION DIRECTION FINDING AFFECTING HORNETS FLIGHT
(1256) Jacob Gavan (Israel) et al. (2 authors)
- K1.O.7 VISCOSITY EFFECTS ON POLAR VIBRATIONS IN MICROTUBULES
(880) Jiri Pokorny (Czech Republic)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- K1.P.1 DIELECTRIC PROPERTIES OF FULLEREN- MODIFIED BILAYER LIPID MEMBRANES
(1255) Pulat Khabibullaev (Uzbekistan) et al. (4 authors)
- K1.P.2 POSSIBLE NONLINEAR BIOELECTROMAGNETIC MECHANISM DERIVED FROM PLASMA THEORY
(1292) Ram Pal Sharma (India) et al. (4 authors)
- K1.P.3 EFFECTS OF MAGNETIC FIELDS ON OPTICAL PROPERTIES OF ADHERENT CELLS
(1449) Masakazu Iwasaka (Japan) et al. (2 authors)
- K1.P.4 DIELECTRIC PROPERTIES OF CARCINOMAS
(1623) Done-Sik Yoo (Korea) et al. (5 authors)
- K1.P.5 NON-SINUSOIDAL ELF MAGNETIC FIELD _ELECTROPHYSIOLOGICAL RULES OF MEASUREMENT AND EXPOSURE EVALUATION

Commission K

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(1856) Jolanta Karpowicz (Poland) et al. (3 authors)

K2 BIOLOGICAL EFFECTS OF ELECTROMAGNETIC FIELDS (I, C, P)

L. Anderson (USA) and T. Shigemitsu (Japan)

Oral session

Tuesday, August 20, 2002 - morning

Room: 2.1 Colorado

- K2.O.1
(537) CELLULAR AND MOLECULAR EFFECTS OF ELF ELECTROMAGNETIC FIELDS
Junji Miyakoshi (Japan) (I)
- K2.O.2
(549) EFFECTS OF ELECTRIC AND MAGNETIC FIELDS ON MUTATION AND GENE EXPRESSION
Masateru Ikehata (Japan) et al. (8 authors)
- K2.O.3
(470) ARE ELF MAGNETIC FIELD EFFECTS ON CYTOSOLIC CALCIUM IN JURKAT CELLS DEPENDENT ON CELL CYCLE?
Cheryl McCreary (Canada) et al. (2 authors)
- K2.O.4
(752) ELF MAGNETIC FIELD EXPOSURE AND NEUROENDOCRINE RESPONSES.
Masamichi KATO (Japan) et al. (2 authors) (I)
- K2.O.5
(842) EFFECTS MAGNETIC FIELD ON THE DIRECTION ON FISH MOVEMENT UNDER NATURAL CONDITIONS
Krzysztof Formicki (Poland) et al. (3 authors)
- K2.O.6
(1175) NUMERICAL DOSIMETRY OF A THIN RAT HIPPOCAMPUS IN A CONTROLLED RF EXPOSURE SYSTEM
Y. Alfadhil (United Kingdom) et al. (5 authors)
- K2.O.7
(1043) EFFECT OF GSM MOBILE PHONE RADIATION ON BLOOD-BRAIN BARRIER: USE OF PROTEOMICS APPROACH TO DEFINE THE HYPOTHETICAL MOLECULAR MECHANISM.
Dariusz Leszczynski (Finland) (I)
- K2.O.8
(742) EXPOSURE OF HUMAN LYMPHOCYTES TO CW 830 MHZ INDUCES GENOMIC INSTABILITY ASSOCIATED WITH CANCER
Maya Mashevich (Israel) et al. (8 authors)
- K2.O.9
(1474) THE EFFECT OF GENERAL ANESTHESIA ON THE THRESHOLD DECISION OF OCULAR SIDE EFFECTS INDUCED BY MICROWAVE RADIATION ON RABBIT EYES
Masami Kojima (Japan) et al. (8 authors)
- K2.O.10
(1543) SHORT-TERM EFFECTS OF HIGH FREQUENCY ELECTROMAGNETIC FIELDS ON MELATONIN SYNTHESIS IN RATS.
KEISUKE HATA (Japan) et al. (5 authors)
- K2.O.11
(1323) INVESTIGATIONS OF VARIOUS CANCER MODELS IN EXPERIMENTAL ANIMALS EXPOSED TO EMF
Larry Anderson (United States of America) et al. (3 authors) (I)

Poster session

Tuesday, August 20, 2002 - P1

Room: Expo Foyer

- K2.P.1
(62) STATISTICAL ANALYSIS AND CHARACTERIZATION OF SPATIAL DISTRIBUTION OF ABSORBED POWER OF GSM MOBILE PHONES
Naila BENDJEBARA (France) et al. (3 authors)
- K2.P.2
(67) POSSIBLE INFLUENCE OF CENTRAL NERVOUS ACTIVITY OF MICE BY EXPOSURE TO UHF FIELDS
Cristian Goiceanu (Romania) et al. (6 authors)

Commission K

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| K2.P.3 | RELATION BETWEEN THE ELECTROMAGNETIC PROCESSES IN THE NEAR- EARTH SPACE AND DYNAMICS OF THE BIOLOGICAL RESOURCES IN RUSSIAN ARCTIC |
| (839) | Ludmila Makarova (Russia) et al. (4 authors) |
| | |
| K2.P.4 | THE VARIATION OF PTERIDINE LEVELS IN MOUSE TISSUES DURING EXPOSURE TO MAGNETIC FIELDS. |
| (1003) | Tsukasa Shigemitsu (Japan) et al. (4 authors) |

K3 HAZARD ASSESSMENT FOR WIRELESS COMMUNICATION (I, C, P)

B. Veyret (France) and M. Taki (Japan)

Oral session

Wednesday, August 21, 2002 - morning

Room: 2.1 Colorado

- K3.O.1 RATIO OF SPATIAL PEAK AND WHOLE BODY SAR DEPENDENT ON FREQUENCY AND POLARIZATION IN ANIMALS AND HUMANS
(1897) Jürg Fröhlich (Switzerland) et al. (3 authors)
- K3.O.2 EFFECT OF GSM-900 RADIOFREQUENCY ON APOPTOSIS IN IMMUNE AND NERVOUS CELLS
(1481) Isabelle Lagroye (France) et al. (6 authors)
- K3.O.3 NEW PINEAL GLAND CRYSTAL : CHARACTERIZATION AND POTENTIAL ROLE IN ELECTROMECHANOTRANSDUCTION
(2236) Simon Baconnier (France) et al. (3 authors)
- K3.O.4 RECENT ADVANCES IN STUDY ON MOBILE PHONE EXPOSURE TO THE BRAIN OF THE RAT
(2234) Hirokazu Nagawa (Japan) et al. (7 authors) (I)
- K3.O.5 ACUTE EFFECTS OF LOCAL EXPOSURE TO RADIO-FREQUENCY ELECTROMAGNETIC FIELDS WITH A LOOP ANTENNA ON THE CEREBRAL MICROCIRCULATION IN RATS.
(1023) Hiroshi Masuda (Japan) et al. (6 authors)

K4 BIOMEDICAL APPLICATIONS OF ELECTROMAGNETIC FIELDS AND WAVES (I, C, P)

J. Lin (USA) and T. Katila (Finland)

Oral session Thursday, August 22, 2002 - morning Room: 2.1 Colorado

- K4.O.1 TEMPERATURE DISTRIBUTION IN AND AROUND ARRAY APPLICATOR FOR INTERSTITIAL MICROWAVE HYPERTHERMIA COMBINED WITH INTERSTITIAL RADIATION THERAPY
(1433) Koichi Ito (Japan) et al. (4 authors) (I)
- K4.O.2 HYPERTHERMIA APPLICATOR COMPATIBLE WITH NON-INVASIVE THERMOMETRY SYSTEM
(2207) Jan VRBA (Czech Republic) et al. (5 authors)
- K4.O.3 FETAL MAGNETOCARDIOGRAPHY
(1149) Maria Peters (The Netherlands) et al. (3 authors) (I)
- K4.O.4 AN INVERSE ALGORITHM TO DETECT NEURAL ACTIVITY USING MEG
(1389) Qingxiang Li (United States of America) et al. (2 authors)
- K4.O.5 OPTICAL DIFFUSION TOMOGRAPHY
(1845) Toivo Katila (Finland) et al. (6 authors) (I)
- K4.O.6 MICROWAVE IMAGING VIA SPACE-TIME BEAMFORMING FOR BREAST CANCER DETECTION: EXPERIMENTAL STUDIES USING BREAST PHANTOMS
(2038) Susan Hagness (United States of America) et al. (8 authors)
- K4.O.7 MODELING BY FDTD OF PLANAR ANNULAR APPLICATORS USED FOR HEATING IN MEDICAL APPLICATIONS.
(1374) Julien CARLIER (France) et al. (5 authors) (I)
- K4.O.8 HEATING CHARACTERISTICS OF SMALL AND HIGH EFFICIENCY IMPLANTS FOR THERMAL THERAPY
(1664) Youji Kotsuka (Japan) (I)
- K4.O.9 RECENT ADVANCES IN IMPEDANCE AND CURRENT MR IMAGING
(2235) Shoogo Ueno (Japan) (I)
- K4.O.10 PULSED MAGNETIC FIELD INDUCED ANALGESIA: A STUDY OF ELECTRIC CURRENT INDUCED PAIN IN NORMAL SUBJECTS.
(528) Frank Prato (Canada) et al. (4 authors)
- K4.O.11 THE EFFECTS OF STRONG STATIC MAGNETIC FIELDS ON ECTOPIC BONE FORMATION
(1467) Hiroko Kotani (Japan)

Poster session Thursday, August 22, 2002 - P2 Room: Expo Foyer

- K4.P.1 A NEW METHOD TO INDUCE APOPTOSIS IN LEUKEMIA CELLS USING HEAT AND MAGNETIZABLE BEADS
(55) Mari Ogiue-Ikeda (Japan) et al. (4 authors)
- K4.P.2 EFFECTS OF STRONG MAGNETIC FIELDS ON RECOVERY PROCESSES IN NERVE EXCITATION
(58) Yawara Eguchi (Japan) et al. (3 authors)
- K4.P.3 ELECTRIC CURRENTS INCREASE THE DIFFUSION OF WATER MOLECULES
(405) Kikuo Yamaguchi (Japan) et al. (4 authors)

- K4.P.4
(468) REPEATED MAGNETIC FIELD SHIELDING INDUCES ANALGESIA IN MICE.
Dawn Desjardins (Canada) et al. (4 authors)
- K4.P.5
(532) ULTRASOUND MEDICAL OBJECTS CLASSIFICATION
Dzmitry Tsishkou (Belarus) et al. (4 authors)
- K4.P.6
(921) ELECTRICAL EFFECTS ON BIOLOGICAL AND HUMAN ORGANISMS IN PARTICULAR REFERENCE
TO CANCER TISSUES WITH ELECTRICAL TREATMENT
Hiroshi Kikuchi (Japan)
- K4.P.7
(1142) BIOSTIMULATION OF HUMAN ORGANISM BY NOISE RADIATION OF IMPATT DIODE
Yaroslav Savenko (Ukraine) et al. (3 authors)
- K4.P.8
(1214) A DOPPLER SIGNAL MULTI-CHARACTERISTICS ANALYSIS SYSTEM AND ITS APPLICATION FOR
THE CEREBRAL VASCULAR DISEASES DIAGNOSIS
Yuanyuan Wang (P. R. China) et al. (5 authors)
- K4.P.9
(1376) HELICAL ANTENNA FOR MEDICAL APPLICATIONS.
Vincent THOMY (France) et al. (5 authors)
- K4.P.10
(1788) A COMPACT RESISTIVE ANTENNA "DARK EYES" FOR BIOLOGICAL PULSED MICROWAVE
PROBING: ANALYSIS AND DESIGN POSSIBILITIES
Milica Popovic (Canada) et al. (2 authors)
- K4.P.11
(1849) ELECTROMAGNETIC RE-WARMING OF CRYOPRESERVED TISSUES
Martin Robinson (United Kingdom) et al. (4 authors)
- K4.P.12
(1969) EFFECTS OF ELECTRICAL STIMULATION ON NEURAL ACTIVITIES AS REVEALED BY MEG, EEG
AND FMRI
Keiji Iramina (Japan) et al. (2 authors)
- K4.P.13
(2069) SIMULATION OF LASER BIOMEDICAL SYSTEMS FOR HUMAN BLOOD DIAGNOSTICS
Yaroslav Savenko (Ukraine) et al. (3 authors)
- K4.P.14
(2206) MICROWAVE THERMOTHERAPY IN THE CZECH REPUBLIC
Jan VRBA (Czech Republic) et al. (5 authors)

K5 EPIDEMIOLOGY OF EXPOSURE TO ENVIRONMENTAL ELECTROMAGNETIC FIELDS (I,C,P)

R. de Seze (France) and N. Yamaguchi (Japan)

Oral session

Thursday, August 22, 2002 - afternoon

Room: 2.1 Colorado

K5.O.1 ELF-EMF EXPOSURE AND CHILDHOOD LEUKEMIA

(2266) Michael H. Repacholi (Switzerland) et al. (2 authors) (I)

K5.O.2 MOBILE PHONE USE AND BRAIN TUMORS: JAPANESE EPIDEMIOLOGICAL STUDY

(2272) Naohito Yamaguchi (Japan) et al. (8 authors) (I)

K5.O.3 A REVIEW OF SOME RF EPIDEMIOLOGICAL STUDIES

(2270) Frank S. Barnes (United States of America) et al. (2 authors) (I)

K5.O.4 EXPOSURE ASSESSMENT FOR EPIDEMIOLOGICAL STUDY ON POSSIBLE RISK OF HEAD DISEASES
DUE TO MOBILE PHONE USE

(2271) Masao Taki (Japan) et al. (2 authors) (I)

K6

TOPICS IN BIOELECTROMAGNETICS (I)

S. Ueno (Japan} and B. Veyret (France)

Oral session

Tuesday, August 20, 2002 - afternoon

Room: 2.1 Colorado

- K6.O.1 MEDICAL APPLICATIONS OF ELECTROMAGNETIC ENERGY FOR ABLATION, COAGULATION AND
HYPERTHERMIA THERAPIES
(611) JAMES LIN (United States of America) (I)
- K6.O.2 NEW TECHNIQUES IN ELECTROMAGNETIC IMAGING OF THE BRAIN
(2044) Risto J. Ilmoniemi (Finland) (I)

**KA EXPOSURE ASSESSMENT FOR CELLULAR AND PERSONAL
TELECOMMUNICATIONS (I, C, P)**

N. Kuster (K, Switzerland) and Q. Balzano (A, USA)

Oral session Monday, August 19, 2002 - morning Room: 2.1 Colorado

- KA.O.1 ON THE NEED FOR A BETTER EXPOSURE ASSESSMENT IN MOBILE PHONE – HUMAN
VOLUNTEER STUDIES
(553) Kjell Hansson Mild (Sweden) (I)
- KA.O.2 MAXIMUM TEMPERATURE INCREASE IN THE BRAIN TISSUES OF ADULTS AND CHILDREN
DURING USAGE OF MOBILE PHONES
(667) Theodoros Samaras (Greece) et al. (3 authors) (I)
- KA.O.3 SARS FOR BODY- AND POCKET-MOUNTED MOBILE TELEPHONES AT 835 AND 1900 MHZ
(1401) Om P. Gandhi (United States of America) et al. (2 authors) (I)
- KA.O.4 A STATUS REPORT ON THE INTERNATIONAL SAR INTER-COMPARISON FOR WIRELESS PHONE
CERTIFICATION
(2094) Christopher Davis (United States of America) et al. (4 authors) (I)
- KA.O.5 INDOOR MEASUREMENTS OF THE ELECTRICAL FIELD CLOSE TO MOBILE PHONE BASE STATIONS
(2112) Hugo Lehmann (Switzerland) et al. (4 authors) (I)
- KA.O.6 METHODS TO ASSESS EXPOSURE OF THE POPULATION NEXT TO MOBILE COMMUNICATION
BASE STATIONS
(1876) Georg Neubauer (Austria) et al. (6 authors) (I)
- KA.O.7 PREDICTION FORMULAS FOR RF ENERGY COMPLIANCE ASSESSMENTS IN THE VICINITY OF
CELLULAR BASESTATION ANTENNAS
(1900) Quirino Balzano (United States of America) et al. (3 authors) (I)

Poster session Tuesday, August 20, 2002 - P1 Room: Expo Foyer

- KA.P.1 COMPUTATION OF SPECIFIC ABSORPTION RATE IN THE HUMAN BODY DUE TO BASE-STATION
ANTENNAS USING A HYBRID FORMULATION
(111) Mohab Mangoud (Egypt) et al. (3 authors)
- KA.P.2 RAPID EVALUATION OF ELECTRIC AND MAGNETIC FIELD RADIATED BY BASE STATION
ANTENNAS FOR CELLULAR COMMUNICATION
(881) Luca Casavola (France) et al. (4 authors)
- KA.P.3 SPECTRUM AND RADIATION EMISSION SURVEY IN THE VICINITY OF A PSR AND MSSR RADAR
(1079) George Miaris (Greece) et al. (7 authors)
- KA.P.4 RADIATION EMISSIONS STOCHASTIC PROCESSES PATTERNS IN CELLULAR BASE STATION
(1418) Reuven Zemach (Israel) et al. (4 authors)
- KA.P.5 DETAIL DOSIMETRIC ASSESSMENT OF A HUMAN HEAD EXPOSED TO NEAR-FIELD OF VARIOUS
SOURCES USING ADVANCED NUMERICAL HYBRID TECHNIQUES.
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