Dear Colleague,

This letter is a call for nominations to the five URSI awards which will be presented at the Opening Ceremony of the URSI General Assembly and Scientific Symposium which will be held in Istanbul, Turkey on 14 August 2011.

The "senior" awards are the van der Pol Gold Medal, the John Howard Dellinger Gold Medal, the Appleton Prize and the Booker Gold Medal. The "junior" award is the Koga Gold Medal.

The rules governing these Awards are included for your information (App. 1). Nominations are for either a senior or the junior award. Please indicate which senior award would be the most appropriate choice.

The applications will be evaluated by a group of experts familiar with the nominee’s field of expertise. We invite you to suggest names of possible referees. A nomination form is included for your possible use, together with the list of former awardees (App. 2 and 3). Please feel free to make additional copies or to download extra forms from the URSI homepage.

To summarise, the concrete steps are as follows:

(1) You can submit up to four names for the senior awards and one name for the junior award. For each nominee, indicate the most appropriate award, submitting only one name for each award. A senior award is for career achievements, but with evidence of significant achievements in the six year period ending one year before the General Assembly and Scientific Symposium.

(2) Consistent with the above, we encourage you to consider candidates unsuccessfully nominated for the awards in 2008.

(3) Please submit all your nominations to the URSI Secretariat by 15 August 2010, as requested. Any delay would endanger the tight time schedule which governs the selection process.

Sincerely yours,

Prof. P. Lagasse
Secretary General

cc. Prof. G. Brussaard, Chairman of the Awards Panel
Rules for the Award of the Balthasar van der Pol
and John Howard Dellinger Gold Medals

1. The Balthasar van der Pol and the John Howard Dellinger Gold Medals honour the memory of two scientists who were closely associated with URSI for many years. The awards are made normally at intervals of three years on the occasion of the General Assembly and Scientific Symposium of URSI. If the interval between two General Assemblies is either considerably greater or considerably less than three years, the Board of Officers is authorized to modify the date on which the next Medals will be awarded, the period referred to in Art. 2, and the dates referred to in Arts. 3 and 4.

2. The Medals are awarded to outstanding scientists whose achievements in any of the branches of science covered by the Commissions of URSI have been particularly valuable. No member of the URSI Board of Officers shall be eligible. The award is for career achievements of the candidate with evidence of significant contributions within the most recent six-year period.

3. The names of not more than two candidates may be submitted by any Member Committee of URSI, URSI Commission Chair or Vice-Chair, or former laureate of any URSI award. The names of the candidates must be received by the Secretary General of URSI not later than 15 August of the year preceding that of the General Assembly and Scientific Symposium at which the award is to be made.

4. The name of each candidate must be accompanied by a nomination form (supplied by the URSI Secretary General) providing information on, inter alia:

(a) a general summary of the candidate’s career and scientific activities;
(b) a review of the candidate’s recent achievements, including references to the most important papers of which the candidate is the sole or a joint author published during the six-year period referred to in Article 2;
(c) an outline of the reasons for the nomination of the candidate.

5. As soon as possible after 15 August, copies of the nomination forms referred to in Article 4 shall be sent to the Awards Advisory Panel by the Secretary General. The members of the Awards Advisory Panel shall be determined by the President of URSI, in consultation with the Board of Officers. The Panel is authorized, when necessary, to consult non-members regarding the merits of the candidates before submitting its own considered views to the Board of Officers not later than 1 March of the year of the General Assembly and Scientific Symposium.

6. The Board of Officers has full authority to select the candidates to whom the awards will be made. In doing so it will take into account the information provided by the proposers of the candidates and also the views expressed by the Awards Advisory Panel. The Board of Officers will bear in mind that it is desirable to make the awards to candidates working in different branches of radio science, and that the J.H. Dellinger Gold Medal should be awarded preferably for work in the field of radio wave propagation.

7. The Board of Officers has full authority to withhold one or both awards if, in the opinion of the members, there is an insufficient number of qualified candidates.
Rules for the Award of the Appleton Prize

1. The Appleton Prize is awarded by the Council of the Royal Society of London and honours the memory of Sir Edward Appleton, F.R.S., President of URSI from 1934 to 1952. The Prize of £250 is awarded normally at intervals of three years on the occasion of the General Assembly and Scientific Symposium of URSI. If the interval between two General Assemblies is either considerably greater or considerably less than three years, the Board shall consult the Royal Society before modifying the date on which the next award will be made, and the dates referred to in Articles 3, 5 and 6 below. The Council of the Royal Society reserves the right to discontinue the award.

2. The Appleton Prize is awarded for outstanding contributions to studies in ionospheric physics. The award is for career achievements of the candidate with evidence of significant contributions within the most recent six-year period. No member of the URSI Board or Officers shall be eligible.

3. Candidates may be nominated by any Member Committee of URSI, URSI Commission Chair or Vice-Chair or former laureate of any URSI award including the Appleton Prize, but not more than one candidate may be nominated by any one Committee or individual. The names of the candidates must be received by the Secretary General of URSI not later than 15 August of the year preceding that of the General Assembly and Scientific Symposium at which the award is to be made.

4. The name of each candidate must be accompanied by a nomination form (supplied by the URSI Secretary General) providing information on, inter alia:

(a) a general summary of the candidate’s career and scientific activities;
(b) a review of the candidate’s recent achievements, including references to the most important papers of which the candidate is the sole or a joint author published during the six-year period referred to in Article 2;
(c) an outline of the reasons for the nomination of the candidate.

5. As soon as possible after 15 August, copies of the nomination forms referred to in Article 4 shall be sent by the Secretary General to the Awards Advisory Panel, the members of which shall be determined by the President of URSI in consultation with the Board of Officers. The Panel is authorized to seek additional advice from outside its membership, regarding the merits of the candidates, before submitting its own considered views to the Board of Officers not later than 1 March of the year of the General Assembly and Scientific Symposium.

6. After considering the views submitted by the Awards Advisory Panel, the Board of Officers shall submit a short list of candidates in order of preference, with reasons for the order, to the Royal Society by 1 May of the year of the General Assembly and Scientific Symposium and advise the Royal Society of the total number of candidates.

7. The Council of the Royal Society has full authority to select the candidate to whom the Prize will be awarded or to withhold it if, in its opinion, there is no sufficiently qualified candidate.
Rules for the Award of the Booker Gold Medal

1. The Booker Gold Medal honours the memory of Professor Henry G. Booker who served as URSI Vice President, 1969-1975, and Honorary President until his death in 1988. The award is made normally at intervals of three years, on the occasion of the General Assembly and Scientific Symposium of URSI. If the interval between two General Assemblies is either considerably greater or considerably less than three years, the Board of Officers is authorized to modify the date on which the next Medal will be awarded, the period referred to in Article 2, and the dates referred to in Articles 3 and 5.

2. The Medal is awarded for outstanding contributions to telecommunications or a related discipline of direct interest to URSI. The award is for career achievements of the candidate with evidence of significant contributions within the most recent six-year period. No member of the URSI Board of Officers shall be eligible.

3. Candidates may be nominated by any Member Committee or URSI, URSI Commission Chair or Vice-Chair or former laureate of any URSI award, but not more than one candidate may be nominated by any one Committee or individual. The names of the candidates must be received by the Secretary General of URSI not later than 15 August of the year preceding that of the General Assembly and Scientific Symposium at which the award is to be made.

4. The name of each candidate must be accompanied by a nomination form (supplied by the URSI Secretary General) providing information on, inter alia:
   
   (a) a general summary of the candidate's career and scientific activities;
   (b) a review of the candidate's recent achievements, including references to the most important papers of which the candidate is the sole or a joint author published during the six-year referred to in Article 2;
   (c) an outline of the reasons for the nomination of the candidate.

5. As soon as possible after 15 August, copies of the nomination forms referred to in Article 4 shall be sent to the Awards Advisory Panel by the Secretary General. The members of the Awards Advisory Panel shall be determined by the President of URSI in consultation with the Board of Officers. The Panel is authorized, when necessary, to consult non-members regarding the merits of the candidates, before submitting its own considered view to the Board of Officers not later than 1 March of the year of the General Assembly and Scientific Symposium.

6. The Board of Officers has full authority to select the candidate to whom the Award will be made. In doing so it will take into account the information provided by the proposers of the candidate, and also the views expressed by the Awards Advisory Panel.

7. The Board of Officers has full authority to withhold the award if, in the opinion of the members, there is not a qualified candidate.
Rules for the Award of the Issac Koga Gold Medal

1. The Issac Koga Gold Medal honours the memory of a scientist who was closely associated with URSI for many years. The award is made normally at intervals of three years, on the occasion of the General Assembly and Scientific Symposium of URSI. If the interval between two General Assemblies is either considerably greater or considerably less than three years, the Board of Officers is authorized to modify the date on which the next Medal will be awarded, the period referred to in Article 2, and the dates referred to in Articles 3 and 5.

2. The Medal is awarded to a Young Scientist, of age not more than 35 on 30 September of the year preceding the General Assembly and Scientific Symposium of URSI, who has made an outstanding contribution to any of the branches of science covered by the Commissions of URSI. The award is for career achievements of the candidate with evidence of significant contributions within the most recent six-year period. The Medal will be presented at the General Assembly and Scientific Symposium.

3. The name of not more than one candidate may be submitted by any Member Committee of URSI, URSI Commission Chair or Vice-Chair or former laureate of any URSI Award. The names of the candidates must be received by the Secretary General of URSI not later than 15 August of the year preceding that of the URSI General Assembly and Scientific Symposium.

4. The name of each candidate must be accompanied by a nomination form (supplied by the URSI Secretary General) providing information on, inter alia:

   (a) a general summary of the candidate’s career and scientific activities;
   (b) a review of the candidate’s recent achievements, including references to the most important papers of which the candidate is the sole or a joint author published during the six-year referred to in Article 2;
   (c) an outline of the reasons for the nomination of the candidate.

5. As soon as possible after 15 August, copies of the nomination forms referred to in Article 4 shall be sent to the Awards Advisory Panel by the Secretary General. The members of the Awards Advisory Panel shall be determined by the President of URSI in consultation with the Board of Officers. The Panel is authorized, when necessary, to consult non-members regarding the merits of the candidates, before submitting its own considered views to the Board of Officers not later than 1 March of the year of the General Assembly and Scientific Symposium.

6. The Board of Officers has full authority to select the candidate to whom the Award will be made. In doing so it will take into account the information provided by the proposers of the candidate, and also the views expressed by the Awards Advisory Panel.

7. The Board of Officers has full authority to withhold the award if, in the opinion of the members, there is not a qualified candidate.
INTERNATIONAL UNION OF RADIO SCIENCE

1. NAME OF CANDIDATE: ..............................................................................................................
   Last, First, Middle

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   Position, Organization
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3. PROPOSED CITATION (not more than thirty words)
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5. **PROFESSIONAL HISTORY** - Present position first. Limit copy to this page.

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6. HONOURS, AWARDS, PROFESSIONAL SOCIETY MEMBERSHIPS, MAJOR PROFESSIONAL GOVERNMENT OR INTERNATIONAL COMMITTEE MEMBERSHIPS

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7. PRINCIPAL PUBLICATIONS, PATENTS (Give list in annex – maximum 5 pages)

- Prefer items of sole responsibility, otherwise give joint names.
- Mention only books and articles in refereed international journals.
- Identify the ten most significant contributions.

8. PRIZE OR MEDAL FOR WHICH THE NOMINEE'S WORK IS PARTICULARLY RELEVANT

☐ Balthasar van der Pol Gold Medal
☐ John Howard Dellinger Gold Medal
☐ Appleton Prize
☐ Booker Gold Medal
☐ Issac Koga Gold Medal
LAUREATES OF THE URSI AWARDS

Balthasar van der Pol Gold Medal

1963: Sir Martin RYLE (UK): Application of the phase switching and aperture synthesis techniques to antennas for radio astronomy.

1966: Prof. W.E. GORDON (USA): Development of the incoherent scatter technique for ionospheric studies.

1969: Dr. J.P. WILD (Australia): Radio astronomy, including completion of a notable high-resolution radio-heliograph.

1972: Dr. B.D. JOSEPHSON (UK): Electronic effects in superconductors.

1975: Prof. L.B. FELSEN (USA): Application of ray-optical methods to studies of the propagation and diffraction of electromagnetic waves.

1978: Dr. J.R. WAIT (USA): Work on propagation of electromagnetic waves in the Earth's crust, and application of results.

1981: Prof. D.S. JONES (UK): Work on electromagnetic theory and, in particular, on the development of a number of analytical approaches.


1987: Dr. T. HAGFORS (Norway): Contributions to radar engineering and the theory and experimental development of the incoherent scatter techniques.

1990: Prof. A.A. OLINER (USA): Contributions to theory of guided waves, especially leaky waves, and novel radiating structures.

1993: Prof. T.B.A. SENIOR (USA): For theoretical contributions to diffraction and scattering of electromagnetic waves, with particular reference to the simulation of material effects in scattering.

1996: Prof. R. HARRINGTON (USA): For contributions to electromagnetics and the development of the method of moments.

1999: Prof. S. SHAMAI (Israel): For contributions to the basic understanding of the potentials for and the limitations to information transfer through various communication channel models.


2005: Prof. I.V.I. LINDELL (Finland): For the development of new methods and solutions in electromagnetic field theory and for exceptional didactic skills.

2008: Prof. W.J. WELCH (USA): Pioneer of millimeter wavelength interferometry to investigate astronomical objects ranging from solar system planets to galaxies at the edge of the Universe with spectral and angular resolution.

John Howard Dellinger Medal


1969: Prof. H.M. BARLOW (UK): Development of waveguides; the characteristics of surface waves.

1975: Prof. N.M. BRICE (USA): Theory of the Earth's plasmapause and theoretical investigations of the physics of Jupiter's magnetosphere.


1981: Dr. J. FEJER (Germany): Work on ionospheric modifications, parametric instabilities, ionospheric irregularities and incoherent scatter.

1984: Mrs. I. DE PATER (the Netherlands): Work on noise of planetary origin, the magnetosphere of Jupiter, and shock waves in the magnetosphere of the Earth.

1987: Dr. R. GENDRIN (France): Study of waves of natural origin propagating in the surroundings of the Earth, and their influence on the behaviour of the magnetosphere.

1990: Dr. G. SWARUP (India): Contribution to radioastronomy and cosmology, both in observational research and in conceiving and building radio telescopes.

1993: Dr. P. STUBBE (Germany): For the conception, construction, and operation of a high frequency ionospheric modification facility in the auroral zone and for the theoretical advancement of the understanding of the associated plasma process.

1996: Prof. T. OGUCHI (Japan): For theoretical work on the polarization effects of non-spherical raindrops and the multiple scattering effects of hydrometeors.

1999: Dr. A. ISHIMARU (USA): For contributions to the theories and applications of wave propagation and scattering in random media and backscattering enhancement.

2002: Prof. D.L. CARPENTER (USA): For his discovery of the plasmapause, for pioneering studies of the plasmasphere structure and dynamics and for development and use of whistler-mode waves as diagnostic probes of the magnetosphere.

2005: Prof. J.B. ANDERSEN (Denmark): For significant contributions to the theory of antenna characteristics and scattering, wave propagation over inhomogeneous areas in mobile communication, and interaction between electromagnetic fields and biological tissue.

2008: Prof. A.E.E. ROGERS (USA): For his outstanding contributions to instrumentation in radio astronomy and its use to make fundamental discoveries about interstellar masers, superluminal expansion of quasars, deuterium abundance in the galaxy, and plate tectonics.

Appleton Prize


1972: Prof. R.A. HELLJWELL (USA): Radio wave propagation in the magnetosphere.

1975: Dr. J.V. EVANS (USA): Ionospheric physics, including application of the incoherent scatter technique.

1978: Prof. P.M. BANKS (USA): Theoretical and observational studies of the plasma flow between the ionosphere and the magnetosphere.

1981: Dr. H. RISHBETH (UK): Contributions to studies of the dynamics and structure of the ionosphere F region.

1984: Prof. K.D. COLE (Australia): Contributions to the understanding of the basic processes taking place in the magnetosphere and the ionosphere.

1987: Dr. S. KATO (Japan): contributions to the study of the ionosphere and the middle atmosphere, and in particular for the development of a highly sophisticated radar to observe the atmosphere.
1990: Dr. A.V. GUREVICH (Russia): contributions to the understanding of the non-linear properties of the ionosphere, particularly with respect to the interaction with high-power radiowaves.

1993: Prof. T.B. JONES (UK): For major contributions, individually and in scientific leadership, to the study of ionospheric physics, using radio and radar techniques.

1996: Dr. D.T. FARLEY (USA): For contributions to the development of the incoherent scatter radar technique and to radar studies of ionospheric instabilities.

1999: Dr. R.F. WOODMAN (Peru): For major contributions and leadership in radar studies of the ionosphere and neutral atmosphere.

2002: Dr. R.A. GREENWALD (USA): For conceiving, designing, developing and deploying two ground-breaking measurement techniques that have provided unparalleled spatial and temporal measurements of the ionosphere, and for inspirational international leadership.

2005: Dr. D. MASSONNET (France): For his outstanding work on radar imaging and satellite radar interferometry, a technique combining high frequencies, propagation and digital signal processing.

2008: Prof. U. INAN (USA): For fundamental contributions to understanding of whistler-mode wave-particle interaction in near-Earth space and the electrodynamic coupling between lightning discharges and the upper atmosphere.

**Booker Gold Medal**

2002: Prof. S. HAYKIN (Canada): For significant and fundamental contributions to adaptive signal processing and neural networks, and their applications to radar and digital communications, the characterizations of which are dominated by nonstationary physical phenomena.

2005: Prof. Y. RAHMAT-SAMII (USA): For fundamental contributions to reflector antenna design and practice, near-field measurements and diagnostic techniques, handheld antennas and human interactions, genetic algorithms in electromagnetics, and the spectral theory of diffraction.

2008: Prof. H. MATSUMOTO (Japan): For his outstanding contributions to the understanding of nonlinear plasma wave processes, promotion of computer simulations in space plasma physics, and international leadership in plasma wave research.

**Issac Koga Gold Medal**

1984: Dr. M. OHTSU (Japan): Work on precise optical measurements, gas and semi-conductor lasers, including the frequency stabilization of these components.

1987: Prof. D.M. POZAR (USA): Contributions to the analytical, numerical and experimental study of printed antennas and phased arrays, and related problems in applied electromagnetics.

1990: Dr. M. LOCKWOOD (UK): Study of non-thermal ionospheric plasma and ionospheric convection.

1993: Prof. G. REBEIZ (USA): For contributions to the advancement of sub-millimetre wave antenna science and technology.

1996: Prof. Z. POPOVIC (USA): For contributions to the field of active microwave circuits, in particular, the original demonstration of the planar grid oscillator, as well as continuing efforts with quasi optical amplifiers and active antennas.
1999: Prof. E. MICHELSSEN (USA): For contributions to computational electromagnetics, in particular
the development of fast frequency and time domain integral equation analysis techniques and
nature-driven synthesis methods.

2002: Prof. F. OLYSLAGER (Belgium): In recognition of his work on theoretical and numerical
electromagnetics (in particular in the field of boundary integral equations, waveguides and
bianisotropic media).

2005: Prof. S.C. HAGNESS (USA): For contributions to the development of enhanced finite-difference
time-domain methods in computational electromagnetics, and ultrawideband microwave imaging
techniques for early breast cancer detection.

2008: Prof. D.F. SIEVENPIPER (USA): For contributions to the development of artificial impedance
surfaces and conformal antennas.