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The 2016 IRPA Sievert Lecture



IRPA is pleased to announce that the 2016 Sievert Lecture at the IRPA14 International Congress in Cape Town (May 9-13) will be given by Dr John D Boice from the United States.

Dr Boice is President of the National Council on Radiation Protection and Measurements (NCRP) based in Bethesda/Maryland, and Professor of Medicine at Vanderbilt University School of Medicine, Nashville, Tennessee.

His work over many years in melding the disciplines of radiation physics, radiation biology and human health effects has enhanced our scientific understanding and has influenced radiation protection guidelines and their implementation in the international arena. He currently serves also on the Main Commission of the International Commission on Radiological Protection and as a U.S. advisor to the United Nations Scientific Committee on the Effects of Atomic Radiation.

The Sievert Award is made in recognition of outstanding contributions to radiological protection, which honours the memory of a leader and pioneer in radiological protection, Professor Rolf Sievert. The recipient must be pre-eminent in the discipline. The award winner is selected from nominees submitted by IRPA's Associate Societies, with the candidates assessed by the Sievert Award Committee and the winner confirmed by IRPA's Executive Council.

Renate Czarwinski
IRPA President

International Radiation Protection Association



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www.irpa.net

2016 IRPA Congress

www.irpa2016capetown.org.za



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Organized in Collaboration with:



Congress Topics

For detailed information, please refer to the official congress website. In brief, the congress will address three major topics of the radiological protection system:

1. **Fundamental science**, as applied to radiological protection
 - A. Epidemiology
 - B. Physics and chemistry
 - C. Biology
 - D. Social sciences
2. **Policy, standards and culture**, establishing philosophy and principles
 - A. International standards and recommendations
 - B. Ethical aspects and radiological protection culture
 - C. Stakeholder involvement
 - D. Nuclear security
 - E. Training and education
 - F. Integrated management systems
3. **Practical application**, illustrating radiological protection practice
 - A. Nuclear
 - B. Industrial
 - C. Mining and minerals processing
 - D. Medical
 - E. Non-ionising radiation
 - F. Naturally occurring radiation

The sub-topics listed for each major topic are not mutually exclusive; rather, they exemplify different approaches to the major topics. Cross-cutting and thematic subjects will feature in all of these major topics and will include:

- i. Worker protection
- ii. Public protection
- iii. Patient protection
- iv. Environmental protection
- v. Emergency preparedness and management
- vi. Transportation of radioactive materials
- vii. Safety and risk assessment
- viii. Dosimetry
- ix. Decommissioning
- x. Waste management
- xi. Remediation
- xii. Justification; Optimisation of protection
- xiii. Design of new installations
- xiv. Radon safety
- xv. Sealed source management
- xvi. Other

IRPA Young professional Award

For official call for nomination, please refer to: <http://www.irpa2016capetown.org.za/Newsletters.asp>.

The IRPA14 Organizing Committee issues a special invitation and encouragement to younger scientists and professionals to attend the congress as delegates. Besides the Young Professionals Award the Organizing Committee will encourage networking amongst young persons by holding a specific reception for them, allowing them also to meet some of the senior figures in the profession. Eligible persons are requested to tick the relevant box on the registration form.

Purpose of the Award

Processes that involve radioactive material and radiation require qualified scientists and professionals in the field of radiation protection and safety. The purpose of this award is therefore to promote investigation into radiation protection and all its related disciplines by young scientists and professionals. The IRPA Young Professionals Award renders an opportunity to present the work in an oral form to an experienced international audience of experts and peers.

Rules

To qualify for this distinction young scientists and professionals are required to:

- ' be under 35 years, or in exceptional cases if the candidate is older, be in the first five years of their career in radiation protection;
- ' be the main author of a paper whose abstract has been approved by the Scientific Committee or Board of the candidate's Radiation Protection Associate Society in that Region;
- ' if the work has more than one author, obtain the written consent of the other authors for the main author to be the candidate for the award; and
- ' be officially designated by the relevant Associate Society in the Region of the Conference.

The Candidate's Associate Society is required to:

- ensure that their nominated candidate has submitted an abstract before the general deadline (20 September 2015) through the normal system on the IRPA 2016 web site,
- send the nominee's name and the title of the competing abstract to the Congress organizers (e-mail abrie.visagie@necsa.co.za) by 15 October 2015. Only one candidate per society is allowed for IRPA14, and
- ensure that the candidate for the award can participate in the Congress and make an oral presentation of the paper. In case the candidate cannot assure his/her participation due to financial constraints, he/she will be able to apply for any of the scholarships that sponsoring organizations are able to grant. Normally the candidate's Associate Society should ensure that the applicant can participate, where necessary by providing financial support.

Awards

Three awards (First, Second and Third prize) will be presented to the selected young scientists and professionals, according to criteria established by the Jury. The awards will be announced and presented in the Closing Ceremony of IRPA14, and will consist of diplomas and/or memorial plaques, together with a monetary prize. All candidates for the award should be present during this ceremony.

The Societies Admissions and Development Committee



(submitted by Roger Coates, IRPA Vice President)

IRPA has established the Societies Admissions and Development Committee (SADC), which broadens the role of the former Admissions Committee from purely admitting new societies into the IRPA family towards helping to make all our societies more effective and professional. The formal Objectives are:

To encourage and support radiation protection societies which have not yet done so to apply for Associate Society status in IRPA according to the rules of IRPA, and to be responsible for advising the Executive Council on the merits of each such application received.

To support and encourage the development of professionalism in all Associate Societies through the identification and sharing of good practices in the operation and activities of societies, and to support collaborative working on the development of additional relevant practices and activities.

So far in this IRPA term we have admitted two new societies into IRPA – Cameroon and Tunisia - which makes us a family of 50 Associate Societies covering 63 countries. We are currently working to support the development of several other societies who hope to join IRPA in the near future.

In the SADC work programme we are updating the Model Constitution, which is of great value to the formation of new societies, and revising our guidance 'Assistance to Associate Societies to promote excellence in the practice of radiation protection societies and to become an effective society' so that it encompasses more support to existing societies. To assist this latter aspect, we have a programme to develop and promote a library of good practice activities through the sharing of experience across the Associate Societies. This will be a searchable database on the website where each society can enter what it believes to be its good ideas and practices so that this experience can be shared between all our members. We hope to be able to launch this in time for the Cape Town Congress.

One common issue both for new and existing societies is to provide convincing answers to the challenges – 'why should I form an RP society' or 'why should I join an RP society'? To address this in a practical and helpful manner the SADC has prepared a clear and succinct statement on the **Benefits of a Radiation Protection Society**. The statement focuses on four viewpoints:

- The Benefits of Creating and Belonging to a Radiation Protection Society
- The Benefits of Cooperation at an International Level through IRPA
- Benefits for the Employer when an Employee belongs to a Radiation Protection Society
- The Benefits to National Authorities

All societies are commended to look at this practical guidance to help them convince colleagues of the real benefits of belonging to an association of professional radiation protection practitioners. It can be found on the IRPA website at:

<http://www.irpa.net/members/3/%7B08CF3B39-72FC-4399-A907-DDD0C9439579%7D/Benefits%20of%20a%20RP%20Society.pdf>

The First International Conference on Radiation Physics and its Applications

(submitted by M A Gomaa, IRPA-Egypt President)

During the period from 11 till 14 of April 2015, the first International Conference on Radiation Physics and Its Applications was held at the Physics Department conference rooms of the Faculty of Science, Alexandria University. The conference was organized by Alexandria University, Egyptian Atomic Energy Authority (EAEA) and IRPA –Egypt.

Around 110 participants attended the conference. Non-Egyptian participants from several countries presented research papers or posters. Participants from Romania, Sudan, Libya, Saudi Arabia and more than 90 Egyptian participants attended the conference. Twelve invited talks were presented by key professors in radiation and nuclear physics. Participants were welcomed by IRPA-Egypt and senior staff of Alexandria University and Egyptian Atomic Energy Authority.

Among the key lectures, one was presented by the vice president of EAEA dealing with EAEA current activities, and another was presented by the President of Egyptian Nuclear and Radiation Regulatory Authority (ENRRA) about its current regulatory activities. Prof Mohamed El Fiki summarized the activities of Egyptian National Institutes of Standards (ENIS). History of International Radiation Protection Association (IRPA) and International Commission on Radiological Protection (ICRP) was reviewed by Dr Gomaa. Furthermore, activities for the 11th conference on radiation physics and protection were reviewed by Prof Mohamed Gomaa.

Participants were from EAEA, ENRRA, ENIS and from the following Egyptian universities such as South Valley, Assiut, El Menia, Cairo, Beni Souif, Mansoura, Mounfia, Suez Canal, Marine Academy Pharos and from Alexandria University.

Among the topics of the conference were theoretical and experimental radiation detection, radiation dosimetry, radiation protection, radiation safety and security, elementary and isotopic analysis, and medical and biophysics.

Young radiation physics and protection scientists (11) were awarded certificate of excellence to encourage them for further studies in the field.

The conference recommended that the second international conference on radiation physics and its application to be held in 2018.

