



IUR Election

1. Board of Council General 2015-2018

Candidate Biographies and Statements



Instructions to IUR Voting Members for establishing the new Board of Council General 2015 - 2018

Please read instructions carefully before you vote

Purpose: Election of the 6 members of the IUR's Board of Council General (election of the regional coordinators will take place later in the year 2015).

Voting members may cast the new Board members. Any IUR member compliant with her/his regular annual membership fee is a voting member. IUR member non compliant with her/his annual membership fee can become voting member by updating her/his membership within the voting period.

Information regarding the candidates (Bio - IUR Accomplishments and Activities - Statement) are provided in this document and can also be accessed online on the IUR website.

<http://www.iur-uir.org/en/actualites/id-255-election-of-the-new-iur-board-of-council-for-2015-2018>

Candidates: a call for candidates willing to actively contribute to IUR's activities by holding one or the other responsibility within the Board of Council during the next 4 years term 2015-2018 as been issued. A candidate is also expected to take an active role in the management of the Union dedicated to improving the audience of Radioecology such as developing good liaison with the relevant scientific community, promoting scientific developments, active networking, ensuring report publication, supporting education and information exchange, seeking sponsors and managing the IUR finances, etc...

Candidates' biographies, activities and statements have been requested and are given hereafter.

Voting procedure

1. **Electronic Transmission:** Any vote will be authenticated electronically, based on the last email address that you declared when registering to IUR and getting access to the web site. This procedure is chosen to make sure that the vote of each individual member is unique and confidential.
2. **Only voting members** of the IUR may vote for IUR Board of Council. Would this not be the case, the voting period is ample enough to allow clearance, and finally access to voting member status
3. **Select Board of Council members:** choose between 1 up to 6 members among 7 candidates by checking the corresponding boxes (if more than 6 members are selected, vote is entirely disregarded).
4. **Deadline for voting receipt:** only votes received by midnight GMT time on 15 September 2015 (extended) will be counted. Please, proceed to your vote electronically as early as possible to allow for a timely result delivery after the deadline.

The link to access the website for voting is sent by email to the voting members.

François Bréchnac
IUR President

NB: The sequence of the candidates in this pamphlet are listed in alphabetical order and indicates no preference.



Prof. Dr. Rudolf ALEXAKHIN

Russian Institute of Radiology and Agroecology (RIRAE)

Russia, 249032,
Kaluga Region, Obninsk,
Kievskoe str., 109 km
e-mail: alexakhin@yandex.ru

Present and recent relevant professional responsibilities

Director of RIRAE (since 1989)
Vice-President of IUR (2007-2014)

Proposed responsibility: Vice-President

Declaration of intention

Radioecology as a branch of natural science within the system of sciences associated with the phenomenon of radioactivity in the context of environment has an over 120 year history. During this period the evolution in the issues and strategy of scientific researches in radioecology is determined by the society needs concerning the solution of the current problems in radiation protection of the environment and humans. Simultaneously radioecology is guided by high methodological standards of theoretical researches taking a position of academic science. At the same time the latest applied aspects of radiation safety assurance are always at the center of its attention.

The main tasks of modern radioecology are closely related to the development of nuclear power engineering; it is considered that the success of nuclear energy generation depends primarily on the solution of the environmental problems. In this context the questions of radioactive waste management and spent nuclear fuel are the most important among other radioecological issues together with the study of radioecological problems of possible radiation accidents with radionuclides release in the environment. The radioecological problems of nuclear legacy can't be eliminated from the agenda. Significance of radioecological problems became particularly obvious for the society after Fukushima Daiichi NPP accident in Japan in 2011. A comprehensive assessment of nuclear energy application in different spheres of human economic activities is impossible without the in-depth analysis of radionuclide migration regularities in different environments and impact of ionizing radiation on living organisms (their populations and biogeocenosis) in their ecosystems. This assumes the use of modern methods of precision researches and radionuclide transport modeling through the trophic chains leading to humans. Among the major theoretical problems of radioecology is the study of the combined impact of complex anthropogenic factors (along with radiation) on the environment and humans. It is therefore time to harmonize rationally the quantitative parameters of impact assessment of ionizing radiation on humans and nature with establishing uniform standards of acceptable impact norms. The ecocentric principle of humans and biota radiation protection should be developed which suggests the study of irradiation effect at the ecosystem level in a wide range of doses.

In implementation of its activity IUR should enhance international cooperation with the organizations involved in the activities related to the radiation safety (IAEA, UNSCEAR, ICRP, etc). Cooperation



coordination of organizations and groups, engaged in radioecological researches at the international and national levels, should be strengthened with IUR coordinating role. From this point of view it should be mentioned that according to the results of the last conference on radioecology and environmental radiation (Barcelona, 2015) about 25% of all radioecological researches are conducted in Russia (14%) and CIS states. In Russian Federation a well-known Russian-language journal called 'Radiation biology. Radioecology' is published where I am the member of the editorial board. In general the modern period of radioecology development is characterized by the increasing demand of its knowledges aimed at solving the problems of great public significance related to the protection of the environment and human health. IUR should continue to play an important role in modern society as the department of knowledge providing the successful solutions of important theoretical and practical problems.

I am ready to serve our Union in future within its Board of Council. Taking into account the IUR Constitution I agree to accept the different position if necessary, but the same level of commitment.



Dr. François BRECHIGNAC

Institute for Radioprotection and Nuclear Safety (IRSN)

Centre d'Etudes de Cadarache - Bât 229 - BP 3
13115 St-Paul-lez-Durance - France
email: francois.brechignac@irsn.fr

Present and recent relevant professional responsibilities

Scientific director deputy at IRSN (since 2010)
President of IUR (2007-2010; 2011-2014), General Secretary (2003-2006)

Proposed responsibility: General Secretary or Vice-President

Declaration of intention

Many specific achievements have been accomplished during the last Board of Council mandate for which you chose me to act as President (new task groups, networks, reports, conferences and workshops, etc...). I would just like to highlight two quite successful and important ones for our community. The promotion of better liaison with the Journal of Environmental Radioactivity engaged some years ago has now yielded a very significant improvement of its audience, as one can notice from the evolution of its impact factor, moving from 0.7 in the early 2000s up to 3.7 now, raising JER's popularity at the level of prominent scientific journal dealing with environmental sciences. Worldwide networking, the very "raison d'être" of our Union, has now reached an operational status with the launch in 2014 of the IUR FORUM which gathers more than 15 topical or regional networks active in Radioecology around the world. This wide process of worldwide coordination is aimed at ensuring that the civil use of nuclear energy is evolving with sound scientific understanding and appropriate mastering of the potential consequences on both man and the environment. The FORUM is only starting, and I propose to promote the further work of integration and coordination that needs to be developed along the 3 initial objectives that it has identified. One of them - integration and consensus building - deserves high priority as it conditions ability to good and efficient communication towards stakeholders and the overall society. Indeed, long-term environmental impact issues, which are still controversial after several major accidents having contaminated large portions of territories, are now crucially requiring elaboration of better scientific understanding and operational knowledge. This is the challenge for IUR which I propose to tackle with all of you under the auspices of our Union.

There are finally two strategic issues worth stressing in front of the above-mentioned challenge. Evidently, we need first to promote liaison, coordination and collaborative work with our Japanese colleagues at Fukushima to learn more about the appropriate assessment of risks from radiation, and also to promote operational solutions of land recovery (decontamination, remediation, mitigation,...). Meanwhile, adoption of a general ecocentric view in radioecology opens the path to renewed radioecology objectives and justification, especially in the radiation protection arena. It helps in various directions: 1) moving forward old-fashioned paradigms, 2) evolving with a protection framework that will really meet the protection goals assigned to environment protection against any hazard (populations-ecosystems/individual organisms), 3) placing integration of human and environment protection frameworks, but also radiation and other stressors, within an ecosystemic conceptual context able to account for, and explain, how humans are interlinked with the environment.

I am proposing to further serve our Union within its Executive Board of Council along the lines mentioned above. According to our Constitution which introduced a mandatory turn-over after 2 successive mandates, this will necessarily be with a different position but the same level of commitment.



Pr. Dr. José Marcus GODOY

Coordenador do Laboratório de Caracterização de Águas

Diretor do Departamento de Química, PUC-Rio
Rua Marques de São Vicente, 225
Gávea, Rio de Janeiro, RJ
CEP 22453-900
e-mail: jmgodoy@ird.gov.br

Head of the Brazilian Radiological Protection Society (SBPR)

The Brazilian Radiological Protection Society (SBPR) was founded on December/1986 and is affiliated to the International Radiation Protection Association (IRPA) and the *Federación de Radioprotección de América Latina y el Caribe (FRALC)*, and has, actually, circa of 400 affiliates. It is devoted, mainly, to promote continuing education of professionals involved in radiological protection activities and disseminate the radiological protection and nuclear safety criteria among the society in general.

In order to better achieve its goals, we have decided to create thematical vice-directorships including the "Protection of the Environment" as one of them. One immediate consequence is the inclusion of the environmental issues in forthcoming the SBPR congresses. I believe also that the mutual cooperation agreement between both societies will be helpful in order to disseminate the UIR activities in Brazil.

A second interesting mechanism to disseminate the UIR activities in Latin America is through the so-called "Radioprotecionistas" Yahoo and Facebook group, it congregates more than 1500 affiliates and become a quite dynamic tool to promote the radiological protection in Latin America.



Dr. Gillian HIRTH

Australian Radiation Protection and Nuclear Safety Agency

619 Lower Plenty Road
Yallambie, 3085
Victoria, Australia

email: Gillian.Hirth@arpansa.gov.au

<http://www.arpansa.gov.au>

Current professional position

Director, Monitoring and Emergency Response Section
Radiation Health Services Branch
Australian Radiation Protection and Nuclear Safety Agency (ARPANSA)

Declaration of the responsibility

Within the Board of Council I would consider any role, as appropriate, however the role as the representative in Asia and Australasia may be the most relevant and beneficial for the Board and the activities of the IUR.

Declaration of intention

If successful in appointment to the Board of Council I would see this as a great opportunity to strengthen the radioecology network, across Australasia and SE Asian network, and at the global level. I have a well-established network across the radioecology and radioanalytical laboratory communities in Australia and New Zealand, and through my work, over the last 3-4 years, I have established a good network internationally with scientists working in the field of radiation protection, radioecology and emergency preparedness. At ARPANSA I have been active in the establishing cooperative agreements with other agencies including the Norwegian Radiation Protection Authority (NRPA), Public Health England (PHE) and the Swedish Radiation Protection Authority (SSM) and have participated in initial meetings about cooperative work with both the National Institute of Radiological Science (NIRS) and the Institute of Environmental Radioactivity at Fukushima University in Japan.

These established relationships provide a sound basis for promoting a stronger network across the Asian and Australasian region. I am also on the organising committee for the South Pacific Environmental Radioactivity Association (SPERA) 2016 conference. This conference is being organised in cooperation between SPERA, ARPANSA and BATAN (the National Nuclear Energy Agency of Indonesia). SPERA is a member association of the IUR forum, established in 2014, and as a member of the conference committee I have been instrumental in initiating contact with the IUR about cooperation between SPERA and IUR. This will hopefully see the proposal to have a regional IUR forum workshop in association with this conference come to fruition and provide an excellent opportunity to attract greater participation from the SE Asian-Australasian region in both the SPERA and IUR communities. This will assist in strengthening the regional linkages in the fields of environmental radioactivity and radioecology, and may also provide a good forum for progressing the work of the IUR task group *Activity survey of radioecology in Asia: toward the Asian network*. I also see the Australian community being able to provide greater input to the work of the IUR, particularly in relation to the development of an ecosystem based approach to environmental protection. I am willing to take an active role in the management of the IUR and am committed to improving the radioecology network internationally. I believe if appointed to the Board of Council of the IUR I would be a strong champion of the Union in this region.



Dr. Carmel E. MOTHERSILL



Medical Physics & Applied Radiation Sciences

Canada Research Chair in Radiobiology
McMaster University, Hamilton
email: mothers@mcmaster.ca

Current professional position

Canada Research Chair Dr. Carmel Mothersill is a radiobiologist who has studied low-dose radiation effects for several years. Examining the effects of very low doses of radiation on human and non-human species, with particular emphasis on the mechanisms of low-dose effects.

The research will contribute to the understanding of the risks of ionizing radiation to humans and the environment following low-dose exposures and it will aid in developing cost effective protection policies.

Declaration of the responsibility

I am prepared to stand for the position of treasurer if elected.

Declaration of intention

I declare my intention to be a candidate in the IUR election. My main goals would be to run workshops (seeking support from outside the IUR) and also to establish a programme of educational visits co-organised with universities to areas impacted by radiation accidents such as Chernobyl.



Dr. Steve C. SHEPPARD

Journal of Environmental Radioactivity

PO Box 430
Pinawa, Manitoba, Canada
R0E 1L0
email: sheppards@ecomatters.com

Present and recent relevant professional responsibilities

Editor in Chief Journal of Environmental Radioactivity
Vice President and Lead Researcher of ECOMatters Inc..

Declaration of Responsibility

The IUR is the affiliated society of the Journal of Environmental Radioactivity. This was initiated through the strong leadership of Francois Bechignac. As Editor in Chief of JER, I view my role on the IUR Board as one of assuring this affiliation remains in place and is mutually productive.

Declaration of Intention

As Editor of JER, I can on occasion offer opportunities to IUR members such as Guest Editorships, which are positive career-building milestones. My involvement on the Board may also include active involvement on the scientific committee of IUR technical conferences that may publish selected papers in JER (my involvement would be if and when requested by the conference organising committee).



Norwegian Radiation Protection Authority (NRPA)

Grini næringspark 13
1332 Østerås
Norway
email: per.strand@nrpa.no

Present and recent relevant professional responsibilities

Director of the Department of Nuclear Safety and Environmental Radioactivity at the Norwegian Radiation Protection Authority,
Professor at the Norwegian University of Life Sciences,
European Alliance of Radioecology.
Involved in the IUR since 1995 within different taskgroups and in different positions on the board and executive committee. Also involved in ICRP and UNSCEAR.

Proposed responsibility

Responsibilities on the executive committee and board as president, vice president.

Declaration of intention

I have had the pleasure to be involved with the IUR over many years in different capacities and strongly believe in the importance of the IURs work in radioecology, as the global organisation representing radioecology and as a driver for international, science based cooperation.
It is my firm belief that recent years have witnessed advances having been made regarding the IUR's profile and achievements. This period has seen the inauguration of new IUR Task groups and the successful arrangement of various workshops and conferences. Of particular note in this context was the International Conference on Radioecology and Environmental Radioactivity, co-sponsored by the IUR and held in Barcelona in September 2014. The conference was a great success bringing together over 400 individuals from 47 countries and international organisations and demonstrating that the field of radioecology remains vibrant and productive. In addition, we have also successfully organised an international forum focused on the worldwide harmonisation of regional radioecology networks in different parts of the world. There continues to be an important role to make sure that the scientific inter disciplinary area of radioecology is visible and are taken into account.

I hereby declare my candidacy for board membership and a position on executive committee as President or Vice-President. It is my vision to further strengthen the IUR on the international stage by strengthening inter-regional collaboration with groups working towards underpinning the science of radioecology and environmental radioactivity. I am fully cognisant of the requirement to raise public awareness in relation to radiation protection through active promotion of our activities and with clear and constructive dialogue with end-users and stakeholders. There is a clear and pressing need to establish stronger, viable links between managers and policy makers and those scientists working at the cutting edge of research in universities and research institutes. After twenty years of working with the IUR, I am as strongly committed to supporting IUR activities as I have ever been and genuinely hope to continue with a leadership role in our eminent union.



Thank you for participating in the IUR Election.

