



IRPA Bulletin

For RP professionals, by RP Professionals



MARCH 2023

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IRPA President Bernad Le Guen at the 6th Asian and Oceanic Congress for Radiation Protection (AOCRP6) in Mumbai, India in February 2023

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PRESIDENT'S BLOG

DR. BERNARD LE GUEN

Are you ready for the world of tomorrow?

All around us, digitalization is on the rise and will inevitably impact the way we work, even as it already effects the way we live our daily lives. This was made very clear during my visit to China just a couple of weeks ago, where digitalization is occurring extremely fast. For example, if I'm interested in purchasing something I might see during a typical day, I just have to point the camera on my phone towards the object to instantly be presented with prices and purchasing options for that and similar items - and not just from Amazon! This could easily be applied to our professional lives. No more need for search engines or - gasp - even paper catalogs! Just open your camera and you'll be presented with the full range of any type of radiation protection device you need, based solely on images of what you already have or may have seen at a colleagues facility. The same holds true for any spare parts you might need to repair your devices, or really any other equipment at all, such as in preparation for an outage at a Nuclear Power Plan (NPP) site.



Digitalization could also be easily applied to all sorts of interventions, from an NPP site to a radiology room. Via a digital tablet, one would have access to all relevant files and information through a single device. Updates and notes are instantly shared through the server, and with the use of a VR headset you would be able to see all the plans and drawings in 3D. How much clearer would it be to be able to walk through a building in virtual reality, rather than try to interpret pages of 2D drawings strewn across your desk? Besides being extremely cool, this would greatly simplify work and reduce the opportunity for errors.

What once belonged solely to the realm of science fiction has become a reality. Even simple tasks such as signing a paper contact with a pen are becoming far less common as we become accustomed to digital signatures and certificates. Digital technology allows far greater accessibility to information in real time and we are only at the beginning. How many of the transformations which have yet to come will seem commonplace in the very near future?



Nuclear Operators are shown the ease of accessing information via tablet during a visit to Daya Bay, China (DNMC CGN)



PRESIDENT'S BLOG

DR. BERNARD LE GUEN

Another example where the machine replaces the human (or at least a humans best friend) was presented during the Electric Power Research Institute (EPRI) Nuclear Advisory meeting in which I participated in February. At this event, a robot modeled on a dog was presented. This robot, which is already in use, can be operated remotely to perform tasks such as remote monitoring of an installation on a damaged site, and is especially mobile given its ability to climb stairs. The robot could also be used to enter highly irradiated areas or retrieve radioactive components that may be hazardous to humans, all while the operator remains in safety. Such advances will certainly change the way we work.



What is true for our work is also true for our training. Remote training is developing further and further with immersions in virtual 3D, which can even be accessed via modules on your phone that allow you to train at any time, followed by complete self-evaluations. What better way to keep yourself busy on the commute to work or a train ride for a weekend vacation! Having such information quite literally in the palm of your hand is also invaluable should an emergency situation arise unexpectedly.

While the pandemic lockdowns and isolation were undeniably difficult, it also accelerated the development of these types of technologies and forced us to adapt to a more digital world. I encourage us all to take advantage of these technologies and similar developments in other sectors to continue to evolve and improve our way of work. Tomorrow is today!



The digital control room at Daya Bay, China (DNMC CGN)



**Spot the robot dog at CONEXPO, 2020
Roman Korotkov/Shutterstock.com
Full article at [IFLSociety](https://www.ifsociety.org/2020/05/15/spot-the-robot-dog/)**



PRESIDENT'S BLOG

DR. BERNARD LE GUEN

Lastly, I was privileged to be able to attend the 6th Asian and Oceanic Congress for Radiation Protection (AOCRP6) in Mumbai, India, which took place February 7 - 11, 2023. My sincere thanks to everyone involved for putting on such a successful event!

Bernard Le Guen
IRPA president



IRPA Associate Societies (AS) Forum in Mumbai, with all AS representatives



A warm thanks from IRPA to all ladies involved in the Mumbai AOCRP6 organization. Already busy as part of their regular jobs as engineers and specialists, they went above and beyond to ensure the success of the congress



YOUNG PROFESSIONALS EXPERIENCE AT THE IRPA AFRICA REGIONAL CONGRESS (AFRIRPA 06)

FRANCIS OTOO

The 6th African Regional Congress of the International Radiation Protection Association (AFRIRPA06) was organized by the Ghana Association for Radiation Protection (GARP) from 10-13 October 2022 at the La Palm Royal Beach Hotel Accra, Ghana. The theme for the congress was “Embracing Radiation Protection Education and Safety Culture,” and the event engaged all radiation protection professionals in Africa, including young professionals, allowing them to share knowledge and network with their colleagues.

AFRIRPA06 was well attended by young African radiation protection professionals from most African countries, consisting mainly of students in the industrial and medical sectors. Several oral and poster presentations were delivered by young professionals from various fields of radiation protection, with many one-on-one engagements with elders and seniors in the profession taking place in between the sessions. This significant turnout can be very much attributed to the generous sponsorship grants offered by the International Atomic Energy Agency (IAEA), International Radiation Protection Association (IRPA), Radiation Protection Institute, GAEC, and Nuclear Regulatory Authority, Ghana (NRA).



IRPA President Dr. Bernard Le Guen and Congress Chair Prof. Cyril with some young professionals supported by IRPA to participate in the AFRIRPA06



YOUNG PROFESSIONALS EXPERIENCE AT THE IRPA AFRICA REGIONAL CONGRESS (AFRIRPA 06)

FRANCIS OTOO

Outside of the excellent scientific presentations and discussions, there were many other opportunities for young professionals to meet other people and network during coffee breaks, poster sessions, and lunch. Young professionals also participated in the Associate Societies forum where a dedicated presentation on the activities of the Young Generation Network Activities was delivered. It was an excellent forum for the young professionals to introduce themselves and share their ideas and opinions with other associate societies and the IRPA leadership.

Similarly, young participants took part in the tour to the Ghana Atomic Energy Commission which proved to be not just educational and enlightening, but also another great opportunity to interact with one another. The participants were able to see and learn about various types of equipment and systems that are not found in their respective countries.

The Young Scientist Professional award was won by Mr. Mbarndouka Taamté Jacob from Cameroon who gave a presentation on indoor radon and ambient equivalent dose rate measurements using a locally manufactured low-cost smart electronic device and validated with reference instruments.



Radiation Protection Professionals with the winner of the young professional scientist award and the IRPA President.

The most significant achievement of the African young professionals from AFRIRPA 06 was the motion to establish an African Young Generation Network of IRPA (AFRIRPA YGN). This was the result of days of interactions and networking between young professionals that took place during the conference. As the representatives of their respective countries, they all agreed to establish the network which will serve as a forum for all young people in the radiation protection field. The process of standardizing this association has already begun with the creation of a WhatsApp group which has added 90 members in just a few weeks.



YOUNG PROFESSIONALS EXPERIENCE AT THE IRPA AFRICA REGIONAL CONGRESS (AFRIRPA 06)

FRANCIS OTOO

The young professionals had a very wonderful conference experience, thanks to the excellent organization and coordination by the hosts. However, there is always room for improvement. The few recommendations young professionals would like to put forward are:

1. A dedicated scientific session for young professionals, irrespective of their areas of specialization or thematic areas should be added in subsequent conferences. This would provide more opportunities to accept presentations by young people into the program, and also give them more courage and confidence to make presentations at the conference.
2. There is a need for more sponsorship opportunities from local and international bodies. This would ensure greater participation by young professionals in all IRPA-related activities.
3. There should be more youth-specific social activities on the sidelines of the conference in order to generate more opportunities for young professionals to interact with each other, network, and share best practices of radiation protection.

Finally, special gratitude once again goes to the leadership of IRPA, especially the president and other executives, for the sponsorship offered to young professionals and also to our IRPA YGN Chairman for his support. Additional thanks to the local organizing committee and all its sub-committees, and to all the partners that in various ways contributed to making the conference successful and memorable. We hope to see each and every one of you again at AFRIRPA 07 either in Nigeria or Cameroon, and we wish both countries all the best in their bid to host.

I also wish to acknowledge my colleague, IRPA YGN Leadership Committee member Bashir S Hussain from Nigeria, and other colleagues for their contribution and support during the congress. Finally, any young radiation professionals interested in more information on the [IRPA YGN can visit their website here](#).



Mr Mbarndouka Taamté Jacob received his Young Scientist Professional award from Dr. IRPA Dr. Bernard le Guen.

IRPA16 FIRST ANNOUNCEMENT



**RADIATION HARMONIZATION:
STANDING UNITED FOR PROTECTION**

 **IRPA 16**

7-12 July, 2024 • Orlando, Florida USA
Rosen Shingle Creek

FIRST ANNOUNCEMENT

CONGRESS OVERVIEW

Congress

International Congress of International Radiation Protection Association, IRPA16

Date

7 (Sunday) – 12 (Friday) July 2024

Venue

Convention Center Rosen Shingle Creek, Orlando, Florida

Official language

English

Expected Participants

1500 scientists, practitioners, interested experts

IMPORTANT DATES

2023

Abstract submission opens – 1 July

Abstract submission closes – 30 September

Registration opens – 1 November

2024

Notification of acceptance of oral presentations – 28 February

Notification of acceptance of poster presentations – 31 March

On-site registration – 5 July

Proceedings publication – Dave Niven



IRPA16 FIRST ANNOUNCEMENT



Kevin L. Nelson, Ph.D.
Congress President IRPA 16

Dear Colleagues and Friends,

On behalf of IRPA, HPS, CRPA and SMSR, it is my great pleasure to invite you to attend the IRPA 16 International Congress to be held in Orlando, Florida USA from 7-12 July, 2024.

The Congress will be held at the Rosen Shingle Creek Convention Center, which is attached to the hotel. With the theme “Radiation Harmonization: Standing United for Protection” the congress aims to draw attention to the fact that as the uses of radiation continue to expand, the need for harmonization continues to be an integral component in our practice. Our sessions will welcome talks and discussions on the differences that may exist between countries in their approaches to the regulatory processes as well as differences within the protection community itself. This will help identify successes and

challenges that can assist the review process currently underway by the ICRP for the next revision of their general recommendations for radiological protection. Also, ICRP is currently reviewing its recommendations for radiation protection which will be discussed at IRPA 16.

You can expect a wide range of topics from the basics of radiation protection to improvements in its practice. Presentations will be delivered in a modern, attractive and interactive format with up-to-date technical contributions and opportunities for the active involvement of all participants in the discussion. The Congress organizers and hosts are issuing a special invitation to younger scientists and professionals to attend.

Please help us to spread the word about the Congress by using your network to alert colleagues and promote their attendance at IRPA 16 in Orlando/USA.

Find the full first announcement here, or visit the [official IRPA 16 website](#) for all the details.

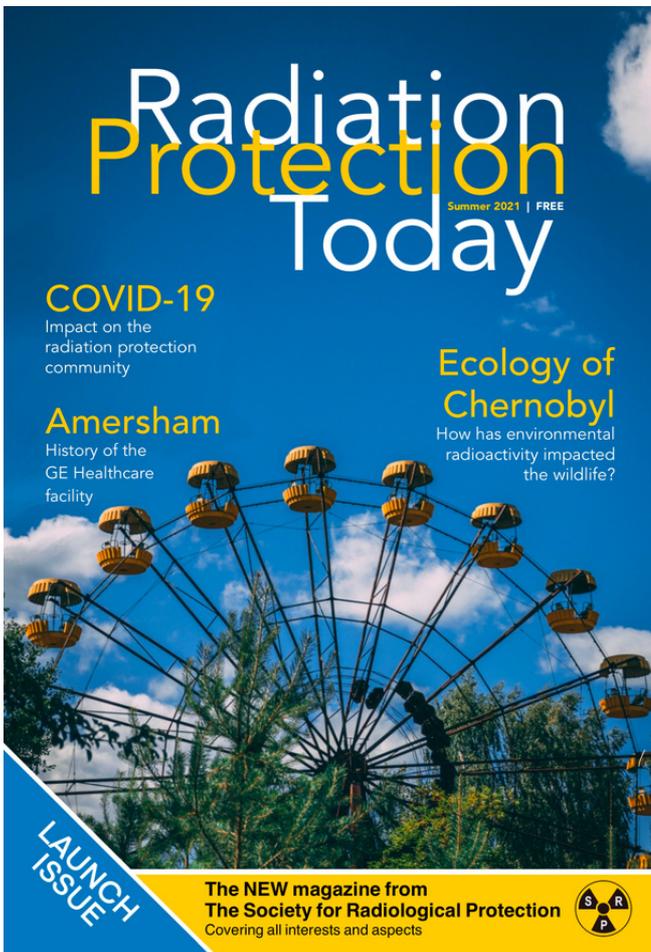


SCIENTIFIC PROGRAM

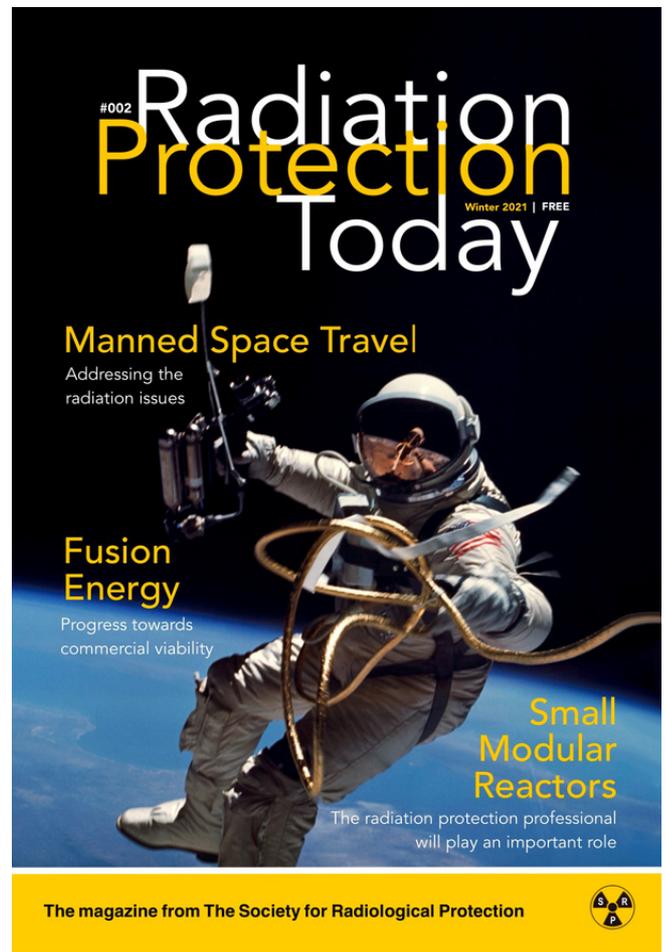
Please find more details on the scientific program by using this QR code.



SRP FREE MAGAZINE: RADIATION PROTECTION TODAY



Issue 1 was launched in Summer 2021



Issue 2 was published in Winter 2021 with the theme of Building the Future

[Radiation Protection Today](#) is the free magazine from the UK's Society for Radiological Protection (SRP). Published twice a year, it is for everyone working in radiation protection as well as other readers with an interest in science.

The magazine was launched in Summer 2021, in response to member feedback showing a need for a publication aimed at practitioners. It covers a variety of radiation protection topics in a way that everyone can enjoy. While it is of interest to specialists, it is designed to appeal to a much wider audience than SRP's long-established academic publication, the Journal of Radiological Protection.

Each edition has articles relating to a particular theme. The theme of the [current issue](#) is Decommissioning, while previous editions focused on [Radioactive Sources](#) and [Building the Future](#). Past articles have included the Radiation Protection Aspects of Manned Space Travel, Fusion Energy, Small Modular Reactors, the Ecology of Chernobyl, The Shielding Design Process and Mobile Robotics in Decommissioning.



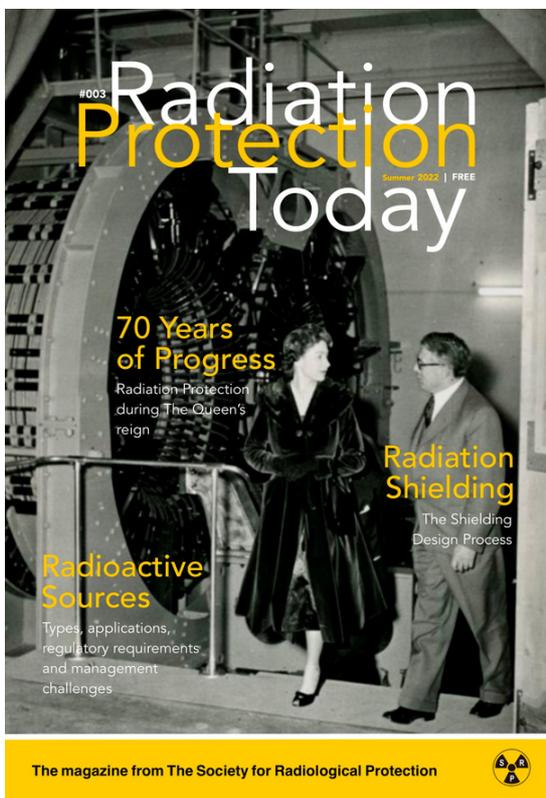
SRP FREE MAGAZINE: RADIATION PROTECTION TODAY

IRPA (and SRP) Past President, Dr Roger Coates, OBE, is In the Hot Seat at the moment! This regular feature is an interview with someone of note in the field of radiation protection. Other regular sections include Lessons from History, Specialist Spotlight, Words from the Wise, Back to Basics and Backscatter, an eclectic mix of radiation protection snippets. No magazine would be complete without Letters to the Editor or a themed puzzle – Radiation Protection Today has both!

Radiation Protection Today's editorial team, led by Dr Trevor Jones, MSRP, are all volunteers. They devote an enormous amount of time and energy to make the magazine a success. Radiation Protection Today also relies on the support of its advertisers, whose strong and continuing support is much appreciated and enables the publication to be available free to everyone.

The magazine is published in both print and digital formats and SRP's members can choose the format in which they receive it. It is free for everyone, and SRP encourages IRPA members around the world to share the link www.srp-rpt.uk which will always take the reader to the most recent edition. Previous editions can also be viewed online (via the Publications Panel) or downloaded to be read at leisure. There is also a useful search feature to easily find a topic.

If you would like to join the mailing list, to be alerted when a new issue is published, please email admin@srp-uk.org. Your address will only be used for this purpose.



Issue 3 was published in Summer 2022 with the theme of Radioactive Sources



Issue 4 was published in Winter 2022 with the theme of Decommissioning



EGYPTIAN RADIATION PROTECTION SEMINAR 2023

MOHAMED AHMED MAHMOUD GOMAA

Following the approval of the President of Egyptian Atomic Energy Authority (EAEA), Prof AMRO EL-HAG Ali, the Radiation Protection Seminar was held February 14-16, 2023, at the conference room of the Egyptian Atomic Energy Authority (EAEA). The seminar was attended by junior university staff and researchers, and radiation protection officers and experts. The goal was to update the attendees with the latest ICRP recommendations, IAEA requirements and IRPA programs as reported in IRPA bulletins and other activities. Several invited speakers including professors and emeritus professors, members of the radiation protection departments at EAEA, and representatives from four nuclear and radiation centers were also active participants.

In total there were 35 live presentations. with only three presentations on Zoom. The seminar program included:

1. Two historical sessions dealing with the early history of radiation protection in Egypt (1957 to 2010) and the beginning of the nuclear safety committee at EAEA (1979-1983).
2. Two sessions on radiation protection in medicine (diagnostic, radiotherapy and nuclear medicine) and in non-medical practices (TENORM, monitoring in industrial sites and at research facilities).
3. A special session was devoted to non-ionizing radiation and the role of the Egyptian Ministry of Health as the regulator for non-ionizing radiation.
4. Presentations on current research included radiation detection (TLD and SSnTD) and its applications, and current research in radiation shielding.
5. A session on the roles of UNSCEAR, ICRP, IAEA, ILO, and IRPA in the field of Radiation Protection.
6. The final session covered education and training, with a focus on the first M. Sc. professional program at Alexandria University, Egypt, currently in its third year.



Photo of the participants at the seminar closing

EGYPTIAN RADIATION PROTECTION SEMINAR 2023

MOHAMED AHMED MAHMOUD GOMAA

An excellent presentation was given by Dr. Cristina from Romania entitled, "CANDU Spent Fuel Radiation Dose Rates during Intermediate Wet Storage." There was also a special round table to provide advice to junior staff, both on general topics and specifically on Monte Carlo in the field of shielding and radiological medicine.

As part of the seminar, several participants received the IRPA Egypt Medal from the EAEA and Mansura University. Among the topics presented by the winners were:

- Artificial intelligence in radiation protection
- Radiation protection as a habit
- Safety culture
- Transportation of radioactive materials
- Decommissioning of radiation and nuclear facilities



IRPA Egypt Medal Received by Participants from Egyptian Universities



UPCOMING EVENTS



13th SYMPOSIUM CRPA with international participation „Nuclear threat – are we ready?“

Poreč, Croatia, April 18th – 21st 2023.

SECOND ANNOUNCEMENT

LOCATION AND TIME:

Hotel Parentium Plava Laguna****
Poreč, Croatia
April 18th – 21st 2023

WEB: simpozij13.hdzz.hr

ORGANIZER:

Croatian radiation protection Association

CO-ORGANIZERS:

Institute for Medical Research and Occupational Health, Zagreb
Ruđer Bošković Institute, Zagreb
Croatian Medical Physics Society

IMPORTANT DATES:

01	Registration Open	December 7, 2022
02	Abstract submission deadline	February 1, 2023.
03	Notice of Acceptance	March 1, 2023.
04	Early bird fee deadline	March 10, 2023.

SYMPOSIUM TOPICS:

1. Radiation Science – General Topics
2. Nuclear threats - challenges
3. Radiation dosimetry
4. Biological effects of radiation
5. Radiation exposure of the population
6. Radiation protection in medicine
7. Radioecology
8. Radon
9. Instrumentation and measurement techniques
10. Non-ionizing radiation

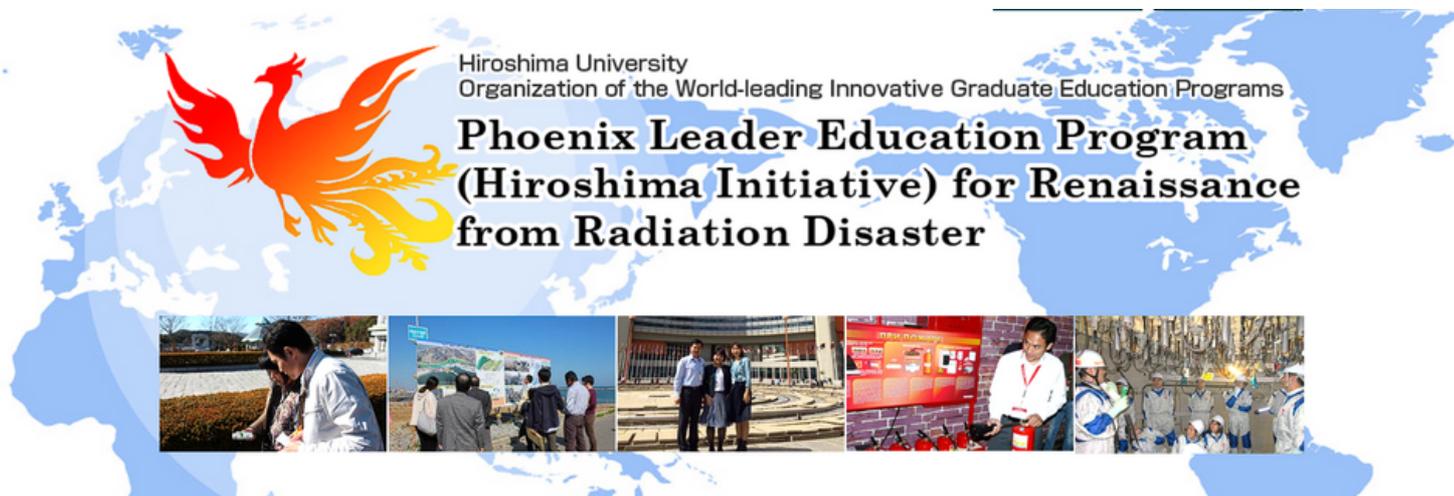
During the symposium, the annual meeting of the Association of Members of the Society will be held.

Organizing Committee of the 13th CRPA Symposium
Institute for Medical Research and Occupational Health, Ksaverska c. 2, HR-10000 Zagreb
e-mail: hdzz13@imi.hr



UPCOMING EVENTS

The Phoenix Leaders Education Program is recruiting new students!



The October 2023 admission process for the 'Phoenix Leader Education Program for Renaissance after a Radioactive Disaster' of Hiroshima University has begun. The target audience is mainly graduate students or young professionals from all over the world who want to specialize in radiological disaster management.

The 4-5 year integrated program aims to train personnel with the necessary skills to protect human health against radiological risks and also protect the environment and society against radioactivity. It is designed to develop interdisciplinary and comprehensive global leaders (Phoenix Leaders) capable of acting appropriately in circumstances of radiation risk and contributing to the restoration of post-disaster situations based on a clear philosophy.

The program officials expect and accept outstanding students from around the world who wish to take on responsibilities in the management of possible future radioactive disasters. Academically, the interdisciplinary and practical program is based on the experiences and achievements of Hiroshima University in support after the Hiroshima and Nagasaki atomic bombs. Teaching takes place at Hiroshima University on two campuses: one in the city center and the other on the outskirts of the city.

Students are financially supported by grants from the Ministry of Education and various sponsors including the IAEA. More information on financial support is available on the [Hiroshima University website](#).

For more information on the program, visit the [Phoenix Leaders program website](#).



UPCOMING EVENTS

AUSTRALASIAN RADIATION PROTECTION SOCIETY 2023 CONFERENCE



On behalf of the Organising Committee, I have the pleasure of inviting you to Gold Coast for the Annual Conference of the Australasian Radiation Protection Society (ARPS). ARPS 2023 conference will be held at SeaWorld Convention Centre from Sunday 29 October – Thursday 2 November 2023.

The Australasian Radiation Protection Society (ARPS) was founded in 1975 and has more than 250 members engaged in radiation protection activities. Members are engaged in a variety of activities designed to ensure the safe use of ionising and non-ionising radiation across the incredibly diverse field of radiation protection, which includes medicine, pure and applied science, industry, and mining.

The theme of the 2023 conference is “Expanding the Scope of Radiation Protection”. The aim of the conference is to foster discussions across a broad range of radiation protection aspects and emerging fields, including training the next generation of radiation professionals, showcasing new technologies and applications, and sharing the importance of effective communication and stakeholder involvement. The Organising Committee is eager to curate a full and extensive program that includes three days of scientific sessions infused with intensive exhibitor and sponsor engagement.



Drew Watson
ARPS 2023 Convenor

We hope you will join us at the Gold Coast and support ARPS as it delivers the best and most recent information to delegates. We look forward to welcoming you to Gold Coast.



SEND US YOUR NEWS!



Do you have news to share? Send it to cop@irpa.net, and we will share it via the IRPA News and the IRPA Bulletin. Stories for the Bulletin are normally 200-300 words plus images.

We're always looking for updates from our Associate Societies for our Society Spotlight. Let us know what your society has been up to. Meetings, conferences, general events or any good news is always welcome!

Your IRPA Commission on Publications:

IRPA Communications Officer: Dave Niven

Bulletin Editors: Dave Niven

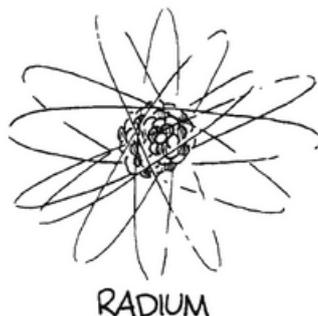
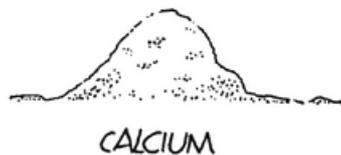
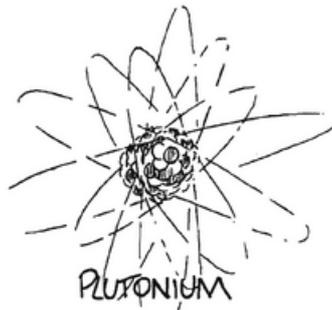
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