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International Conference on Occupational Radiation Protection: Strengthening Radiation Protection of Workers – Twenty Years of Progress and the Way Forward

5 – 9 September 2022

International Conference Centre Geneva Geneva, Switzerland

Provisional Programme

Organized by the International Atomic Energy Agency (IAEA) Hosted by the Government of Switzerland Co-sponsored by the International Labour Organization (ILO)

In cooperation with the

European Commission (EC)

European Organization for Nuclear Research (CERN)

Ibero-American Forum of Radiological and Nuclear Regulatory Agencies (FORO)

International Committee for Non-Destructive Testing (ICNDT)

International Commission on Radiation Units and Measurements (ICRU)

International Commission on Radiological Protection (ICRP)

International Organization of Employers (IOE)

International Radiation Protection Association (IRPA)

International Society of Radiology (ISR)

International Society of Radiographers and Radiological Technologists (ISRRT)

International Trade Union Confederation (ITUC)

Nuclear Energy Agency of the Organization for Economic Co-operation and Development (OECD/NEA)

Pan American Health Organization (PAHO)

United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR)

World Health Organization (WHO)

World Nuclear Association (WNA)

Programme Committee:

| Programme Committee. | J. Amoako S. Baechler L. B. Omrane R. Ferro Fernandez M. Gaunt P. Hofvander M. Kulkarni L. Liu J. Ma L. E. Matta K. Modes W. Muhogora S. Mundigl S. Niu H. B. Okyar G. O'Reilly M. d. R. Pérez | Ghana Switzerland Tunisia FORO IOE Sweden India China IAEA Brazil United States of America United Republic of Tanzania EC ILO IAEA Ireland |
|--|---|---|
| | M. Pinak C. Schieber F. Shannoun | IAEA France UNSCEAR |
| | M. Yoshizawa A. Zodiates | Japan ITUC |
| President: | A. Lévy, Swit Federal Offic | tzerland ce of Public Health, Switzerland |
| Co-President: | L. B. Omrane National Center for Radioprotection (CNRP), Tunisia | |
| IAEA Secretariat: Scientific Secretaries: Conferenœ Coordination: Administrative Support: | J. Ma, IAEA S. Niu, ILO S. Padmanabhan, IAEA E. Panteleymonova, IAEA S. Elias, IAEA X. Dong, IAEA | |
| Location of the Conference: | The International Conference Centre Geneva (CICG) Rue de Varembé 17 1202 Geneva, Switzerland Tel : +41 22 791 91 11 | |

| Working Language: | English |
|-------------------|---|
| Resolutions: | No resolutions may be submitted for consideration on any subject; no votes will be taken. |

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TIMETABLE

Sunday, 4 September 2022

| Time | Session | Session Title / Break |
|-------------|---------|--|
| 15:00-18:00 | | Registration and distribution of conference material |

Monday, 5 September 2022

| Time | Session | Session Title / Break |
|-------------|---------|--|
| 08:00 | | Registration (continued) |
| 10:00-11:15 | | Opening Session |
| 11:20-12:40 | | Briefing Session: |
| | | Activities in occupational radiation protection and main |
| | | challenges |
| 12:40-14:00 | | Lunch Break |
| 14:00-15:25 | 1 | Review of standards and recommendations on |
| | | occupational radiation protection at the international, |
| | | regional, and national levels: |
| | | Progress over the past twenty years and existing |
| | | challenges |
| 15:25-15:55 | | Coffee Break / Poster Viewing Sessions 1 and 2 |
| 16:00-17:30 | 2 | Monitoring and dose assessment of occupational radiation |
| | | exposures |
| 18:00-20:00 | | Welcome Reception |

Tuesday, 6 September 2022

| Time | Session | Session Title / Break |
|-------------|---------|---|
| 09:00-10:30 | 3 | Radiation effects, health risks of occupational exposure |
| | | and worker's health surveillance |
| 10:30-11:00 | | Coffee Break / Poster viewing session 3 |
| 11:00-12:00 | | Round Table 1: |
| | | Health risk management with Member State's approaches |
| 12:00-13:30 | | Lunch Break and Poster viewing |
| 13:30-15:15 | 4 | Occupational exposure levels and dose registries |
| 15:15-15:45 | | Coffee Break / Poster Viewing Sessions 4 and 5 |
| 15:45-17:15 | 5 | Occupational radiation protection in industrial, research |
| | | and education facilities |

| Time | Session | Session Title / Break |
|-------------|---------|---|
| 09:00-10:45 | 6 | Occupational radiation protection in nuclear power plants |
| _ | | and nuclear fuel cycle facilities |
| 10:45-11:15 | | Coffee Break / Poster Viewing Session 6 |
| 11:15-12:45 | 7 | Occupational radiation protection in the workplaces |
| | | involving exposure to naturally occurring radioactive |
| _ | | material, radon, and cosmic rays |
| 12:45-14:00 | | Lunch Break and Poster viewing |
| 14:00-15:00 | | Round Table 2: |
| | | Management of occupational radiation protection due to |
| | | radon exposure |
| 15:00-16:30 | 8 | Occupational radiation protection in medicine |
| 16:30-17:00 | | Coffee Break / Poster Viewing Sessions 7 and 8 |
| 17:00-18:00 | | Round Table 3: |
| | | Occupational radiation protection in medicine |
| | | – the way forward |

Thursday, 8 September 2022

| Time | Session | Session Title / Break |
|-------------|---------|---|
| 09:00-10:30 | 9 | Optimization in occupational radiation protection |
| 10:30-11:00 | | Coffee Break / Poster Viewing Session 9 |
| 11:00-12:00 | | Round Table 4: |
| | | Optimization of radiation protection, regional |
| | | perspectives |
| 12:00-13:30 | | Lunch Break and Poster viewing |
| 13:30-15:00 | 10 | Technical service providers in occupational radiation |
| | | protection |
| 15:00-15:30 | | Coffee Break / Poster Viewing |
| | | Sessions 10 and 11 |
| 15:30-17:00 | 11 | Education and training in occupational radiation |
| | | protection |
| 17:00-18:00 | | Young Professionals Round Table |

Friday, 9 September 2022

| Time | Session | Session Title / Break |
|-------------|---------|--|
| 09:00-10:45 | 12 | Safety culture in occupational radiation protection |
| 10:45-11:45 | | Round Table 5: |
| | | Regional challenges in implementing occupational |
| | | radiation protection |
| 11:45-12:15 | | Coffee Break / Poster Viewing Session 12 |
| 12:15-13:20 | | Closing Session: Strengthening radiation protection of |
| | | workers – Twenty years of progress and the way forward |

10:00-11:15 OPENING SESSION

Chair: M. Pinak, IAEA

| Time | Name | Designated Member State/Organization | Title |
|-------------|----------------|---|---|
| 10:00-10:05 | R. M. Grossi | Director General, International Atomic Energy Agency (IAEA) | Opening Statement (video message) |
| 10:05-10:10 | V. van Vuuren | OIC for the DDG-P Office Director, Enterprises Department, International Labour Organization (ILO) | Opening Address |
| 10:10-10:15 | K. De Meester | Representative of the International Organisation of the Employers (IOE) | Opening Address |
| 10:15-10:20 | O. Tudor | Deputy General Secretary, International Trade Union Confederation (ITUC) | Opening Address (video message) |
| 10:20-10:25 | A. Lévy | Director, Federal Office of Public Health | Opening Address |
| 10:25-10:30 | M. Kenzelmann | Director General, Swiss Federal Nuclear Safety Inspectorate | Opening Address |
| 10:30-10:35 | E. M. Loretz | Member of the Board of Management, Swiss National Accident Insurance Fund | Opening Address |
| 10:35-10:45 | A. Lévy | Director, Federal Office of Public Health | Conference President's Address |
| 10:45-11:15 | A. J. González | Argentina | Keynote Address: Protection of Workers against Occupational Exposures to Ionizing Radiation: Genesis, Evolution, Achievements, Prospects |

11:20-12:40BRIEFING SESSION
Activities in occupational radiation protection and main challengesChair:A. Lévy, SwitzerlandCo-Chair:L. B. Omrane, Tunisia

| | Name | Designated Member State/Organization |
|-------------|-----------------|--|
| 11:20-11:30 | P. Johnston | International Atomic Energy Agency (IAEA) |
| 11:30-11:40 | S. Niu | International Labour Organization (ILO) |
| 11:40-11:50 | S. Mundigl | European Commission (EC) |
| 11:50-12:00 | A. Rakhuba | Nuclear Energy Agency of the Organization |
| | | for Economic Co-operation and |
| | | Development (OECD/NEA) |
| 12:00-12:10 | B. Batandjieva- | United Nations Scientific Committee on the |
| | Metcalf | Effects of Atomic Radiation (UNSCEAR) |
| 12:10-12:20 | E. van Deventer | World Health Organization (WHO) |
| 12:20-12:30 | T. Schneider | International Commission on Radiological |
| | | Protection (ICRP) |
| 12:30-12:40 | B. Le Guen | International Radiation Protection Association |
| | | (IRPA) |
| 12:40-14:00 | | Lunch Break |

14:00-15:25 SESSION 1:

Review of standards and recommendations on occupational radiation protection at the international, regional, and national levels: Progress over the past twenty years and existing challenges Z. Lounis-Mokrani, Algeria

Chair: Z. Lounis-Mokrani, Al Co-Chair: M. Kostor, Malaysia

Rapporteur: K. Modes, United States of America

| Time | Name | Designated Member State/Organization | Title |
|-------------|--------------|---|----------------------------|
| 14:00-14:15 | M. Pinak | IAEA | IAEA Safety Standards on |
| | | | Occupational Radiation |
| | | | Protection: |
| | | | 20 years working together |
| | | | towards a common goal |
| 14:15-14:30 | T. Schneider | ICRP | ICRP recent developments |
| | | | and challenges for the |
| | | | future of occupational |
| | | | radiation protection |
| 14:30-14:45 | S. Mundigl | EC | Occupational radiation |
| | | | protection – framework and |
| | | | requirements in Europe |
| | | | (Council Directive |
| | | | 2013/59/Euratom) |
| 14:45-15:00 | V. Holahan | United States of America | Implementation of National |
| | | | Radiation Safety |
| | | | Requirements |
| 15:00-15:10 | K. Modes | United States of America | Summary of contributed |
| | | | papers |
| 15:10-15:25 | | Discussion | |
| 15:25-15:55 | Cot | fee Break / Poster Viewing S | Sessions 1 and 2 |

16:00-17:30 SESSION 2: Monitoring and dose assessment of occupational radiation exposures
Chair: H. Khoury, Brazil
Co-Chair: F. Vanhavere, Belgium
Rapporteur: L. Liu, China

| Time | Name | Designated Member State/Organization | Title |
|-------------|-----------------------------------|---|-----------------------------|
| 16:00-16:20 | T. Otto | ICRU | ICRU operational quantities |
| | | | for external radiation |
| | | | exposure |
| 16:20-16:35 | F. Rossi | Italy | External dosimetry: Status |
| | | | of the art and technologies |
| | | | |
| 16:35-16:50 | F. Paquet | ICRP | The ICRP work on internal |
| | | | dosimetry |
| 16:50-17:05 | E. G. | Switzerland | An overview of progress of |
| | Yukihara | | solid-state dosimetry and |
| | | | its potential use in |
| | | | individual monitoring |
| 17:05-17:15 | L. Liu | China | Summary of contributed |
| | | | papers |
| 17:15-17:30 | | Discussion | |
| 18:00-20:00 | Welcome Reception | | |
| | sponsored by the Swiss Government | | |

09:00-10:30 SESSION 3: Radiation effects, health risks of occupational exposure and worker's health surveillance Chair: L. Walsh, Germany Co-Chair: J. Rodriguez Guzman, Colombia Rapporteur: F. Shannoun, UNSCEAR

| Time | Name | Designated Member State/Organization | Title |
|-------------|--------------|---|-------------------------------|
| 09:00-09:20 | В. | UNSCEAR | The UNSCEAR 2012 |
| | Batandjieva- | | Report on attributing health |
| | Metcalf | | effects to ionizing radiation |
| | | | and inferring risks |
| 09:20-09:35 | R. Wakeford | ICRP | What has been learned |
| | | | from epidemiological |
| | | | studies of workers |
| 09:35-09:50 | S. Niu | ILO | Health surveillance of |
| | | | workers occupationally |
| | | | exposed to ionizing |
| | | | radiation and compensation |
| | | | programme |
| 09:50-10:05 | I. D. Ivanov | WHO | Occupational health and |
| | | | safety of health workers |
| | | | exposed to ionizing |
| | | | radiation |
| 10:05-10:15 | F. Shannoun | UNSCEAR | Summary of contributed |
| | | | papers |
| 10:15-10:30 | | Discussion | |
| 10:30-11:00 | | Coffee Break / Poster Viewin | ng Sessions 3 |

11:00-12:00ROUND TABLE 1:
Health risk management with Member State's approachesChair:A. Modenese, Italy

Title Time Name **Designated Member** State/Organization 11:00-11:10 E. van WHO Radiation in the context of Deventer an integrated approach to occupational health 11:10-11:20 **E. Guilfoyle** United Kingdom Different approaches to be taken into consideration: unions' perspective on workers' health 11:20-11:30 V. Nicosia Health Management Italy system in oil and gas industry 11:30-11:40 **J. Rodriguez** Colombia Risk management of Guzman workers in radiology departments 11:40-12:00 Discussion 12:00-13:30 Lunch Break and Poster Viewing

| 13:30-15:15 | SESSION 4: |
|-------------|--|
| | Occupational exposure levels and dose registries |
| Chair: | C. Lawrence, Australia |
| Co-Chair: | W. Muhogora, United Republic of Tanzania |
| Rapporteur: | L. E. Matta, Brazil |

| Time | Name | Designated Member State/Organization | Title |
|-------------|--------------|---|----------------------------|
| 13:30-13:50 | P. Hofvander | Sweden | Keynote lecture: |
| | | | Occupational exposure to |
| | | | ionizing radiation: |
| | | | UNSCEAR 2020/2021 |
| | | | Report, annex D |
| 13:50-14:05 | U. Oeh | Germany | Occupational Radiation |
| | | | Exposure in Germany – A |
| | | | Report of the German |
| | | | National Radiation Dose |
| | | | Register (SSR) |
| 14:05-14:20 | J. Deng | China | National dose registry for |
| | | | workers occupationally |
| | | | exposed to ionizing |
| | | | radiation in China (2009- |
| | | | 2021) |
| 14:20-14:35 | M. V. Ramos | Cuba | Experiences in the |
| | | | implementation of the NDR |
| | | | in Latin America and the |
| | | | Caribbean region |
| 14:35-14:50 | E. Amoatey | Ghana | Management of |
| | | | occupational exposure |
| | | | levels in Africa with dose |
| | | | management system and |
| | | | national dose registry: |
| | | | Ghana's experience |
| 14:50-15:00 | L. E. Matta | Brazil | Summary of contributed |
| | | | papers |
| 15:00-15:15 | | Discussion | |
| 15:15-15:45 | Cof | fee Break / Poster Viewing S | essions 4 and 5 |

 15:45-17:05 SESSION 5: Occupational radiation protection in industrial, research and education facilities
 Chair: S. K. Babu, ICNDT
 Co-Chair: A. M. Rojo, Argentina
 Rapporteur: A. Zodiates, ITUC

| Time | Name | Designated Member State/Organization | Title |
|-------------|-------------|---|-------------------------------|
| 15:45-16:05 | R. Van | Netherlands | Keynote lecture: |
| | Sonsbeek | | ISEMIR-IR: A benchmark |
| | | | tool for optimizing radiation |
| | | | protection in industrial |
| | | | radiography |
| 16:05-16:20 | S. Roesler | CERN | Occupational radiation |
| | | | protection in the operation |
| | | | of accelerators at CERN |
| 16:20-16:35 | C. Ribaudo | United States of America | Radiation Protection for |
| | | | Animal Researchers |
| 16:35-16:50 | H. Watabe | Japan | Data management system |
| | | | for radiation workers across |
| | | | universities in Japan |
| 16:50-17:00 | A. Zodiates | ITUC | Summary of contributed |
| | | | papers |
| 17:00-17:15 | | Discussion | |
| 17:15 | | Adjourn | |

| 09:00-10:45 | SESSION 6: |
|-------------|---|
| | Occupational radiation protection in nuclear power plants and |
| | nuclear fuel cycle facilities |
| Chair: | M. Lips, WNA |
| Co-Chair: | N. Yurttas,Türkiye |
| Rapporteur: | A. Zodiates, ITUC |

| Time | Name | Designated Member State/Organization | Title |
|-------------|--------------|---|-----------------------------|
| 09:00-09:20 | G. Renn | United Kingdom | Keynote lecture: |
| | | | Radiological Protection at |
| | | | Sizewell B NPP: Thirty |
| | | | Years of Organisational |
| | | | Learning using ISOE |
| 09:20-09:35 | K. Fornalski | Poland | Challenges for modern |
| | | | radiation protection in the |
| | | | implementation of nuclear |
| | | | power in Poland |
| 09:35-09:50 | M. Iskakov | Kazakhstan | Occupational radiation |
| | | | protection as a part of |
| | | | occupational safety |
| | | | management system at |
| | | | uranium mining industry |
| 09:50-10:05 | T. Suzuki | Japan | Ten years at the |
| | | | Fukushima Daiichi Nuclear |
| | | | Power Station, then and |
| | | | now |
| 10:05-10:20 | H. Ogino | Japan | Recent developments on |
| | | | occupational radiation |
| | | | protection in Japan from a |
| | | | regulatory perspective |
| 10:20-10:30 | A. Zodiates | ITUC | Summary of contributed |
| | | | papers |
| 10:30-10:45 | | Discussion | |
| 10:45-11:15 | | Coffee Break / Poster Viewi | ng Session 6 |

 11:15-12:45 SESSION 7: Occupational radiation protection in workplaces involving exposure to naturally occurring radioactive material, radon and cosmic rays
 Chair: L. E. Matta, Brazil
 Co-Chair: I. L. Teng, Malaysia
 Rapporteur: H. B. Okyar, IAEA

Designated Member Title Time Name State/Organization 11:15-11:35 **D. J. Allard** United States of America NORM, Radon, and Cosmic Ray Radiation Protection in the U.S.A. 11:35-11:50 J. van der NORM X and circular Netherlands Steen economy - "Radiological features versus economical use" 11:50-12:05 V. Mares Aircrew dosimetry -Germany measurements and calculations 12:05-12:20 W. Ringer Austria Radon at Workplaces: Framework, Practical Issues und Challenges 12:20-12:30 H. B. Okyar Summary of contributed IAEA papers 12:30-12:45 Discussion 12:45-14:00 Lunch Break and Poster Viewing

14:00-15:00ROUND TABLE 2:
Management of occupational radiation protection due to radon
exposureChair:J. Chen (Canada)

| Time | Name | Designated M State/Organiz | lember zation | Title |
|-------------|---------------|-------------------------------|------------------|--|
| 14:00-14:08 | H. Janžekovič | Slovenia | | Radon in Workplaces – EU Experiences. |
| 14:08-14:16 | A. Canoba | Argentina | | Issues in the |
| | | | | Implementation of new |
| 14.16 14.04 | | China | | Radon Dose Coefficients |
| 14:10-14:24 | C. HOU | China | | Occupational exposure of |
| | | | | of provention and mitigation |
| | | | | |
| | | <u></u> | | |
| 14:24-14:32 | F. Otoo | Ghana | | Occupational exposure to |
| | | | | radon in mines: |
| | | | | Establishing baseline for |
| | | | | routine monitoring |
| 14:32-14:40 | P. Nilsson | Sweden | | The European Radon |
| | | | | Associations perspective |
| | | | | and activities on |
| | | | | occupational exposure of |
| | | | | radon |
| 14:40-15:00 | | | Discussion | |
| 15:00-15:30 | | C | Coffee Break | |

| - | |
|-------------|---|
| 15:00-16:30 | SESSION 8: |
| | Occupational radiation protection in medicine |
| Chair: | K. H. Ng, Malaysia |
| Co-Chair: | M. Mahesh, United States of America |
| Rapporteur: | G. O'Reilly, Ireland |
| | |

| Time | Name | Designated Member State/Organization | Title |
|-------------|-------------|---|-------------------------------|
| 15:00-15:20 | C. Martin | United Kingdom | Keynote lecture: |
| | | | Overview of occupational |
| | | | radiation protection in |
| | | | medicine |
| 15:20-15:35 | D. Newman | ISRRT | Radiographers and |
| | | | Radiological Technologists |
| | | | International Perspective on |
| | | | Occupational Radiation |
| | | | Protection in Medicine |
| 15:35-15:50 | D. Gilley | United States of America | Radiation Protection and |
| | | | safety in veterinary medicine |
| 15:50-16:05 | M. Sans | Switzerland | Establishment and |
| | Merce | | implementation of eye lens |
| | | | dose monitoring and |
| | | | protection programme |
| 16:05-16:15 | G. O'Reilly | Ireland | Summary of contributed |
| | | | papers |
| 16:15-16:30 | | Discussion | |
| 16:30-17:00 | Co | ffee Break / Poster Viewing | Session 7 and 8 |

17:00-18:00 ROUND TABLE 3:

Occupational radiation protection in medicine - the way forwardChair:F. Bochud, Switzerland

| Time | Name | Designated Member State/Organization | Title |
|-------------|-------------------------|---|--|
| 17:00-17:10 | M. Mahesh | United States of America | Managing Occupational Radiation Protection |
| | | | during Interventional |
| 17:10-17:20 | K. H. Ng | Malaysia | Communicating safety and risk with workers in medical imaging |
| 17:20-17:30 | L. V. de Sá | Brazil | Occupational exposures - Challenges and pitfalls in modern medicine |
| 17:30-17:40 | J. M. Fernández Soto | Spain | Experience in occupational radiation protection in interventional radiology |
| 17:40-18:00 | | Discussion | |
| 18:00 | | Adjourn | |

| 09:00-10:30 | SESSION 9: |
|-------------|---|
| | Optimization of occupational radiation protection |
| Chair: | A. Almén, Sweden |
| Co-Chair: | C. Schieber, France |
| Rapporteur: | H. B. Okyar, IAEA |

| Time | Name | Designated Member State/Organization | Title |
|-------------|---------------|---|---|
| 09:00-09:20 | F. Vermeersch | Belgium | Keynote lecture: Optimization of protection, the cornerstone of radiation protection |
| 09:20-09:35 | J. Lecomte | ICRP | Reasonableness and |
| | | | ICRP perspective |
| 09:35-09:50 | J. O. Porsmyr | Norway | Application of 3D hazard simulation, XR and AI for optimizing the deployment of humans and robots in nuclear environments |
| 09:50-10:05 | H. B. Okyar | IAEA | ORPAS, global review mission and feedback from completed missions on optimization |
| 10:05-10:15 | H. B. Okyar | IAEA | Summary of contributed papers |
| 10:15-10:30 | | Discussion | |
| 10:30-11:00 | C | offee Break / Poster Vi | ewing Session 9 |

11:00-12:00ROUND TABLE 4:
Optimization of radiation protection, regional perspectivesChair:P. Frisk, Sweden

| Time | Name | Designated Member State/Organization | Title |
|-------------|---------------|---|---------------------------------|
| 11:00-11:10 | F. Vermeersch | Belgium | The role of networking in |
| | | | optimization of radiation |
| | | | protection. |
| | | | Dissemination and knowledge |
| | | | transfer. |
| 11:10-11:20 | W. Muhogora | United Republic of | Achievements and Challenges |
| | | Tanzania | of African ALARA Network |
| | | | |
| 11:20-11:30 | L. Liu | China | Opportunities and challenges- |
| | | | Restart of the Asia and Pacific |
| | | | Regional ALARA Network |
| 11:30-11:40 | H. Khoury | Brazil | REPROLAM actions to |
| | | | strengthen radiological |
| | | | protection in Latin America |
| | | | and Caribe |
| 11:40-12:00 | | Discussion | |
| 12:00-13:30 | | Lunch Break and Pos | ster Viewing |

| 13:30-15:00 | SESSION 10: |
|-------------|--|
| | Technical service providers in occupational radiation protection |
| Chair: | Michael Hajek, IAEA |
| Co-Chair: | K. M. R. Dean, Philippines |
| Rapporteur: | J. Amoako, Ghana |

| Time | Name | Designated Member State/Organization | Title |
|-------------|----------------|---|--------------------------------|
| 13:30-13:50 | F. Vanhavere | Belgium | Keynote lecture: |
| | | | What improvements are |
| | | | needed for technical service |
| | | | providers for occupational |
| | | | radiation protection |
| 13:50-14:05 | B. Al Ameri | United Arab Emirates | Regulatory requirements for |
| | | | authorizing Radiation Safety |
| | | | Services in the UAE |
| 14:05-14:20 | K. C. d. Souza | Brazil | The National Laboratory of |
| | Patrão | | Ionizing Radiation Metrology |
| | | | in Brazil – performance and |
| | | | challenges |
| 14:20-14:35 | P. Vermaercke | Belgium | How the coupling of risk- |
| | | | based thinking to a graded |
| | | | approach can provide for a |
| | | | more lean Quality |
| | | | Management System for |
| | | | technical service providers in |
| | | | occupational radiation |
| | | | protection |
| 14:35-14:45 | J. Amoako | Ghana | Summary of contributed |
| | | | papers |
| 14:45-15:00 | | Discussion | |
| 15:00-15:30 | Coffe | e Break / Poster Viewing | Session 10 and 11 |

15:30-17:00 **SESSION 11:** Education and training in occupational radiation protection Chair: C. Trauernicht, South Africa Co-Chair: D. Katsifarakis, ISRRT Rapporteur: C. Schieber, France

| Time | Name | Designated Member State/Organization | Title |
|-------------|-------------|---|---------------------------|
| 15:30-15:50 | B. Le Guen | IRPA | IRPA Guidance on |
| | | | Certification of a |
| | | | Radiation Protection |
| | | | Expert |
| 15:50-16:05 | J. Stewart | United Kingdom | Strengthening radiation |
| | | | protection of workers |
| | | | through education and |
| | | | perspective |
| 16:05-16:20 | H. Salleh | Malaysia | Malaysian Approach to |
| | | - | Education and Training of |
| | | | Occupational Radiation |
| | | | Protection: An |
| | | | Experience to be Shared |
| 16:20-16:35 | S. Inkoom | Ghana | Education and Training of |
| | | | Occupationally Exposed |
| | | | Workers in Ghana and |
| | | | Africa – Ghana's |
| | | | Experience |
| 16:35-16:45 | C. Schieber | France | Summary of contributed |
| | | | papers |
| 16:45-17:00 | | Discussion | |

17:00-18:00 YOUNG PROFESSIONALS ROUND TABLE: Being a Young Radiation Protection Professional

Chair: S. Andresz, IRPA

| Time | Name | Designated Member State/Organization | Title |
|-------------|---------------|---|---|
| 17:00-17:08 | P. Leira | Norway | 3D hazard simulation, XR and Al for optimizing radiological protection – The perspective of a young radiation protection specialist |
| 17:08-17:16 | P. Williams | IAEA | The IAEA's Occupational Radiation Protection Networks (ORPNET) Remodel and Migration – Experiences as a Young Nuclear Engineer |
| 17:16-17:24 | E. Amoatey | Ghana | Female participation in Occupational Radiation Protection in Ghana |
| 17:24-17:32 | T. V. M. Lima | Switzerland | Inter-European experiences of Young Generation Professional: Personal experiences from UK SRP RGG and Swiss Radiation Protection |
| 17:32-17:40 | E. Al Safi | United Arab Emirates | Managing Radiation Exposure During a Refuelling Outage |
| 17:40-18:00 | | Discussion | |
| 18:00 | | Adjourn | |

Friday, 9 September 2022

| 09:00-10:45 | SESSION 12: |
|-------------|---|
| | Safety culture in occupational radiation protection |
| Chair: | V. Balasubramanian, India |
| Co-Chair: | P. Lucio, Spain |
| Rapporteur: | W. Muhogora, United Republic of Tanzania |

| Time | Name | Designated Member State/Organization | Title |
|-------------|-----------------------|---|--|
| 09:00-09:20 | D. Willis | United States of America | Keynote lecture: |
| | | | Safety culture in occupational radiation protection |
| 09:20-09:35 | J. Takala | WNA | Safety Culture Practices in the |
| | | | Canadian Uranium Industry |
| 09:35-09:50 | R. Ferro Fernandez | FORO | Contribution of FORO's Safety Culture projects to |
| | I emanuez | | enhance occupational |
| | | | radiation protection in Latin |
| | | | America |
| 09:50-10:05 | С. | South Africa | Safety culture in occupational |
| | Trauernicht | | radiation protection: The |
| | | | experience. |
| 10:05-10:20 | T. Marfak | Morocco | Strategic approach to Develop |
| | | | a National programme for |
| | | | NSS culture and leadership: |
| | | | Case of AMSSNuR/Morocco |
| 10:20-10:30 | W . | United Republic of | Summary of contributed |
| | Muhogora | Tanzania | papers |
| 10:30-10:45 | | Discussion | |

Friday, 9 September 2022

10:45-11:45ROUND TABLE 5:
Regional challenges in implementing occupational radiation
protectionChair:P. Johnston, IAEA

| Time | Name | Designated Member State/Organization | Title |
|-------------|-------------|---|--|
| 10:45-10:55 | T. Toivonen | Finland | HERCA's perspectives on the challenges of the occupational radiation protection |
| 10:55-11:05 | M. Kostor | Malaysia | Strengthening |
| | | | Regulatory Approach in Improving Compliance Verification Efficiency |
| 11:05-11:15 | Y. Idris | Nigeria | Challenges in |
| | | | Implementing |
| | | | Occupational Radiation |
| | | | Protection in Africa |
| 11:15-11:25 | A. M. Rojo | Argentina | Foreseeing regulatory |
| | | | strategies to strengthen |
| | | | occupational radiation |
| | | | protection |
| 11:25-11:45 | | Discussion | |
| 11:45-12:15 | | Coffee Break / Poster Viewing | Session 12 |

Friday, 9 September 2022

12:15-13:20 **CLOSING SESSION:** Strengthening radiation protection of workers: twenty years of progress and the way forward A. Lévy, Switzerland L. B. Omrane, Tunisia Chair:

Co-Chair:

| Time | Name | Designated Member State/Organization | Title |
|-------------|---------------|---|--------------------------|
| 12:15-12:35 | P. Hofvander | Sweden | A summary of conclusions |
| | | | from sessions |
| | | | and round tables of the |
| | | | conferenœ |
| 12:35-12:55 | R. Czarwinski | Germany | New and alternative |
| | | | technologies - new |
| | | | challenges for standards |
| 12:55-13:05 | A. Lévy | Switzerland | Conclusions of the |
| | | | Conference |
| 13:05-13:10 | S. Baechler | Switzerland | Closing remarks |
| 13:10-13:15 | S. Niu | ILO | Closing remarks |
| 13:15-13:20 | P. Johnston | IAEA | Closing Address |
| 13:20 | | Closing of the Conference | |

Poster Presentations

Monday, 5 September 2022

15:30 - 16:00

POSTER SESSION 1 and 2

| Poster ID | Name | Designation | Title of Paper |
|-----------|----------------------------|--------------------|--|
| P-S1-106 | Lily Bossin | Switzerland | Implications of the ICRU 95 quantities for Swiss personal dosimetry services: a status quo |
| P-S1-146 | Gordana Nikolova | North Macedonia | Regulatory requirements regarding occupational exposure in North Macedonia |
| P-S1-200 | Alena Nikalayenka | Belarus | Belarus experience of applying the dose constraint for occupationally exposed workers in national regulations |
| P-S2-4 | Mohammed Talbi | Morocco | Local radiation dosimetry of workers method using optically stimulated pulsed luminescence and Monte Carlo simulation |
| P-S2-13 | Godwin Ekong | Nigeria | Monitoring and Dose Assessment of Occupational Radiation Protection Exposures – the Nigerian Perspective |
| P-S2-20 | Tahirou Samake | Mali | Occupational Radiation Protection in Mali: Case study of dose limit exceedings |
| P-S2-32 | Marcelino Dantas | Brazil | Occupational Integrated Management System of the Brazilian Caldas Uranium Mine Facility |
| P-S2-33 | Nabeel Al- Tameemi | Iraq | Occupational Dose Assessment for Workers Involved in the Management of Radioactive Waste Generated from Remediation of Adaya Site |
| P-S2-39 | Mohammad Sohelur Rahman | Bangladesh | Monitoring the Lens of the Eye and Extremity of Radiation Workers in Bangladesh |
| P-S2-44 | Hengchun Zhao | China | Research status and development of neutron detector |
| P-S2-49 | Yu Wang | China | Silicon PIN-photodiode and CsI (TI) scintillator in application to a portable dosimeter |

| P-S2-63 | Phil Gilvin | United Kingdom | Impact of the New ICRU Operational Dose Quantities - EURADOS Evaluation and Recommendations |
|----------|-------------------------------|-------------------|---|
| P-S2-77 | Filip Vanhavere | Belgium | Personal on-line dosimetry using computational methods: the PODIUM Project and the future of active dosimetry |
| P-S2-79 | Issariya Chairam | Thailand | Assessment of the nuclear medicine personnel occupational exposure to radioiodine in Thailand |
| P-S2-80 | Francesca Tugnoli | Italy | Accredited proficiency testing and calibrations at the service of radiation protection |
| P-S2-86 | Zhanat Kimolayev | Kazakhstan | Radiation monitoring system at the enterprises of uranium mining by ISL method |
| P-S2-101 | Anna Mineur, Kent Karlsson | Sweden | Practical Implications of the New Dose Limit to the Lens of the Eye in inhomogeneous radiation fields |
| P-S2-102 | Jeppe Brage Christensen | Switzerland | Characteristics of a PADC-based neutron dosimetry system developed at PSI |
| P-S2-103 | Aleksandra Milatovic | Montenegro | Dose assessment of occupationally exposed workers in Montenegro: an overview |
| P-S2-108 | Eleni Papadomarkaki | Greece | Eye lens dose, seven-year period monitoring results: the Greek experience |
| P-S2-109 | Hayo Zutz | Germany | New reference field for testing radiation protection dosemeters in pulsed high- energy photon radiation and the link to the new European Metrology Network for Radiation Protection |
| P-S2-127 | Obed Agbenorku | Ghana | Radiation dose assessment at the secondary standard dosimetry laboratory (SSDL) of the Ghana Atomic Energy Commission during irradiation |
| P-S2-143 | Petronella Sithole | Zimbabwe | Monitoring and dose assessment of occupational radiation exposure for Zimbabwean workers: a decade of experience |

| P-S2-145 | Ausra Urboniene | Lithuania | Assessment of eye lens doses of interventional radiology and interventional cardiology workers in the period of 2016-2020 |
|----------|---|-----------|--|
| P-S2-151 | Maria Celeste Galarza, Nancy Puerta | Argentina | Participation of Latin American Nuclear Medicine Centres in a strategy to support individual on-site monitoring of internal exposure to I-131 |
| P-S2-160 | Ram Sharan Karki | Nepal | Monitoring and Dose Assessment of Occupational Exposure in Nepal |
| P-S2-211 | Aliyu Sa'id | Nigeria | Occupational Dose assessment for Radiation workers at Centre for Energy Research and Training, Zaria. Nigeria. |
| P-S2-213 | Michael Hajek | IAEA | Development and Validation of an Internal Dosimetric Analyser to Assist Confirmatory, Routine and Special Radiobioassay |
| P-S2-220 | Younes Sadeq | Morocco | 2021 IAEA Regional intercomparison exercise on individual monitoring for external exposure in Africa |
| P-S2-222 | Fatou Ndoye Cheikh Senghor | Senegal | Current status of individual dosimetric monitoring in Senegal |
| P-S2-231 | Muditha Rathnayake | Sri Lanka | Optimizing the Individual Monitoring Service in Sri Lanka by Minimizing the Background Radiation Dose Effect. |
| P-S2-236 | Isaac Mundia Francis Mwangi | Kenya | Assessment of Occupational Radiation Exposure in Industrial Radiography in Kenya: Case Study of two Non- Destructive Testing Companies |
| P-S2-237 | Marko Fülöp | Slovakia | Contamination problem of workers handling with 177Lu-labeled radiopharmaceuticals |
| P-S2-240 | Sofia Ioannidou | Greece | Personnel dose assessment during commissioning of the first hospital-based PET radiopharmaceutical cyclotron in Greece |

| Tuesday, 6 Septembe | er 2022 |
|---------------------|---------|
|---------------------|---------|

| 10:30 – 11:00 | | POSTER SESSION 3 | |
|---------------|----------------|------------------|---|
| P-S3-26 | Mikhail Osipov | Russia | Computed Tomography and Occupational Radiation Exposure of the "Mayak" Workers: CT Register |
| P-S3-42 | Salam Al-Nasri | Iraq | Radiological Characterization of the Radioactivity at Al-Tuwaitha Nuclear Site and Determination of the Radiation Doses for Workers. |
| P-S3-59 | Soheir Korraa | Egypt | Markers of Neural Degeneration and Regeneration in Blood of Cardiac Catheterization Personals |

| Tuesday, 6 September 2022 | | | |
|---------------------------|-----------------------------------|------------------------|--|
| 15:15 – 15:45 | | POSTER SESSION 4 and 5 | |
| P-S4-62 | Cangul Akturk | Turkey | Turkey occupational exposure levels and dose registration system |
| P-S4-78 | Mohammad Alharbi | Saudi Arabia | National Dose Registry for Occupational Exposure in Saudi Arabia |
| P-S4-90 | Panagiotis Askounis | Greece | Individual monitoring of exposed workers - Performance indicators |
| P-S4-92 | Mariella Adriana Terán Gretter | Uruguay | lodine-131 routine monitoring programme in nuclear medicine staff in Uruguay |
| P-S4-124 | Valentine Okoye | Nigeria | Occupational Exposure Levels and Dose Registries (The Nigerian Experience) |

| | | | . , |
|----------|---------------------------|----------------|--|
| P-S4-161 | Suzilawati Muhd Sarowi | Malaysia | Current status on occupational dose management in Malaysian Nuclear Agency |
| P-S4-198 | Karla Petrová | Czech Republic | The Current System of Occupational Exposure Regulation in the Czech Republic |
| P-S4-199 | Larisa Rozdyalouskaya | Belarus | The state system for monitoring and evaluation of occupational exposure in the Republic of Belarus |
| P-S4-207 | Asif Shehzad | Pakistan | Regulatory control of occupational exposure at radiation facilities |

| P-S5-38 | Fatemeh Kafshgari | Islamic Republic of Iran | Operational radiation protection at the Tehran research reactor TRR |
|--|--|---|---|
| P-S5-73 | Panupong Pingish | Thailand | Lesson learned and challenge to regulate occupational exposures for industrial workers and related industries in Thailand |
| P-S5-83 | Lisa Pedrazzi | Switzerland | Insights into operational radiation protection at PSI |
| P-S5-149 | Prasanta Kumar Sahani | India | Radiation protection at synchrotron radiation beamlines - challenges |
| P-S5-152 | Ivica Vujcic | Serbia | Occupational radiation protection of employees in industrial irradiation facility in Serbia - Risk Analysis |
| P-S5-157 | Slobodan Masic | Serbia | Analysis of data on ionizing radiation exposure of employees at the Radiation Facility for Industrial Sterilization |
| Wednesday | , 7 September 202 | 2 | |
| 10:45 – 11: | 15 | POSTER SESSIO | N 6 |
| 10:45 – 11: P-S6-82 | 15 Michael Ogwezzy | POSTER SESSIO Nigeria | N 6 Legal and Institutional Frameworks Addressing Occupational Radiation and Protection of Workers in Nuclear Power Plants in Nigeria |
| 10:45 – 11: P-S6-82 P-S6-99 | 15 Michael Ogwezzy Marcel Lips | POSTER SESSIO Nigeria WNA | N 6 Legal and Institutional Frameworks Addressing Occupational Radiation and Protection of Workers in Nuclear Power Plants in Nigeria Nuclear Industry Experiences in Occupational Exposure |
| 10:45 – 11: P-S6-82 P-S6-99 P-S6-140 | 15 Michael Ogwezzy Marcel Lips Mahdiyar Haghi | POSTER SESSIO Nigeria WNA Islamic Republic of Iran | N 6 Legal and Institutional Frameworks Addressing Occupational Radiation and Protection of Workers in Nuclear Power Plants in Nigeria Nuclear Industry Experiences in Occupational Exposure The effect of COVID-19 pandemic prevalence on radiation protection in nuclear and radiological emergencies. Investigation with occupational radiation protection approach |
| 10:45 – 11: P-S6-82 P-S6-99 P-S6-140 P-S6-156 | 15 Michael Ogwezzy Marcel Lips Mahdiyar Haghi Qamar Huma | POSTER SESSIO Nigeria WNA Islamic Republic of Iran Pakistan | N 6 Legal and Institutional Frameworks Addressing Occupational Radiation and Protection of Workers in Nuclear Power Plants in Nigeria Nuclear Industry Experiences in Occupational Exposure The effect of COVID-19 pandemic prevalence on radiation protection in nuclear and radiological emergencies. Investigation with occupational radiation protection approach Occupational Radiation Protection at Nuclear Power Plant in Pakistan |

| 16:30 - 17: | :00 | POSTER SESS | ION 7 and 8 |
|-------------|----------------------------------|----------------------|--|
| P-S7-29 | Marcela Bercikova | Czech Republic | Control of natural radon exposure to workers in schools and educational establishments in the Czech Republic |
| P-S7-36 | Waleed Abdellah | Egypt | Radioactivity levels and the assessment of the associated health hazards at Um Bogma Area, Sinai, Egypt |
| P-S7-41 | lsis María Fernández Gómez | Cuba | Radiological characterization of a calcarenite quarry used as raw material for construction materials. |
| P-S7-64 | Mfon Ebong | Nigeria | Occupational Radiation Protection in the Workplaces Involving Exposure to Naturally Occurring Radioactive material, Radon and Cosmic Rays in Nigeria |
| P-S7-110 | Ondo Meye | Gabon | Management of NORM contaminated hydrocarbon wastes in Gabon |
| P-S7-120 | Muhammad Hassyakirin Hasim | Malaysia | Occupational Radiation Protection in the Oil and Gas Exploration Involving Exposure to Naturally Occurring Radioactive Material (NORM) Waste Product |
| P-S7-162 | Nasir Bilal | Pakistan | Assessment of Naturally Occurring Radioactive Materials (NORM) at oil and gas industry in Pakistan |
| P-S7-163 | Jung Hwan Jang | Republic of Korea | Assessment of radiation dose to workers by potassium compound in NORM industries in Korea |
| P-S7-223 | Giyoung Han | Republic of Korea | Regulatory status and current issues for optimization of occupational radiation protection for commercial aircrew in Republic of Korea |
| P-S7-238 | Amos Muzongomerwa | Zimbabwe | Comparison of Regulatory and Occupational Exposure Provisions for Naturally Occurring Radioactive Materials (NORM) in Zimbabwe to the International Safety Standards |
| P-S8-3 | Hadijah Ndagire | Uganda | Radiation protection for patient and staff in interventional procedures |

| P-S8-5 | Tu Nguyen Thi Cam | Malaysia | Calculation of radiation shielding for megavoltage gamma ray facility using Monte Carlo code EGSnrc |
|----------|-----------------------------------|--------------------------|---|
| P-S8-18 | Huda al Naemi | Qatar | Occupational Cumulative Effective Doses of Radiation Workers in Hamad Medical Corporation in Qatar |
| P-S8-22 | Waraporn Sudchai | Thailand | Risk assessment of eye lens dosimetry for nuclear medicine worker |
| P-S8-69 | William Lorenzen | United States of America | Managing Occupational Exposures During I-131 MIBG Therapy |
| P-S8-104 | Aida Mhiri | Tunisia | Evaluation of Thyroid Exposure of Nuclear Medicine Staff Working with Radioiodine |
| P-S8-105 | Aida Mhiri | Tunisia | Additional dosimetry while using techniques of hybrid SPECT-CT acquisition during a bone scan |
| P-S8-107 | Hatem Hammami | Tunisia | Implementation of radiation protection committee in a university hospital |
| P-S8-130 | Filip Vanhavere | Belgium | Effectiveness of staff radioprotective equipment during fluoroscopically- guided procedures: Results and recommendations from the MEDIRAD project |
| P-S8-141 | Yehia Lahfi | Syrian Arab Republic | Assessment of occupational exposure from patient treated with 131i for thyroid cancer |
| P-S8-142 | Abdalkader Bitar | Syrian Arab Republic | Evaluation of nasal swab method to assess occupational internal contamination with I-131, I-123, and Tc- 99m |
| P-S8-144 | José Miguel Fernández Soto | Spain | Managing occupational and patient doses for an integrated optimisation in interventional radiology |
| P-S8-147 | Larisa Chipiga | Russian Federation | Assessment of equivalent doses for the eye lens for the workers in two St. Petersburg nuclear medicine departments |
| P-S8-148 | Muhammad Khalis Abdul Karim | Malaysia | Contribution of occupational dosimetry and workers towards occupational safety culture |

| P-S8-153 | Michael Ogwezzy | Nigeria | Appraising Occupational Radiation Protection in Medicine and the Nigerian Radiation Safety in Nuclear Medicine Regulation 2006 |
|----------|---|-------------------------|---|
| P-S8-155 | Maryam Zarei | IAEA | Radiation protection awareness of healthcare staff – an essential issue in medical uses of ionizing radiation |
| P-S8-159 | Karima Ouchahmi | Morocco | Occupational Radiation Protection in Diagnostic and Therapeutic Nuclear Medicine |
| P-S8-169 | Buthaina Al Ameri | United Arab Emirates | Regulatory Approach for Dilute and Disperse or Concentrate and Store of the Patient's Excreta after Iodine Therapy. |
| P-S8-180 | Kirill Skovorodko | Lithuania | Assessment of extremity exposure during 18F-FDG injection with automatic injection system |
| P-S8-188 | Mélanie Patonnier, Jose-Antonio Garcia | Switzerland | Quality control of individual radioprotection equipment: methodology and organization in the University Hospitals of Geneva |
| P-S8-203 | Viviane Asfora | Brazil | Evaluation of occupational radiation doses in orthopaedic surgery. Procedures for fractures of the proximal femur |
| P-S8-212 | Samuel Oyeyemi | Nigeria | Assessment of occupational radiation exposures at some selected diagnostics centres in the Southwest Nigeria |
| P-S8-232 | Hala Salem | Egypt | A questionnaire survey on radiation protection among medical staff working in cardiac catheterization laboratory |

| Thursday, 8 September 2022 | | | | |
|----------------------------|----------------------|-------------|--|--|
| 10:30 - 11: | :00 | POSTER SESS | SION 9 | |
| P-S9-15 | Panupong Rintarak | Thailand | Radiation Safety Management Regulation of Thai Research Reactor- 1/Modification 1 for Reactor Health Physicist Implementation | |

| P-S9-16 | Chotika Dararutana | Thailand | Communication strategy for supporting occupational health and safety management systems of Thailand Institute of Nuclear Technology |
|----------|-----------------------|-----------|--|
| P-S9-178 | Sarah Turek | Australia | Optimisation of radiation protection in practice: an ANSTO perspective |
| P-S9-230 | Marco Caresana | Italy | EURADOS WG2: 25 years of networking to foster Harmonisation in Individual Monitoring for external radiations |
| P-S9-244 | Simeon Esseyin | Nigeria | Optimization of radiation protection for the control of occupational exposures |

| Thursday, 8 September 2022 | | | |
|----------------------------|----------------------------------|-------------|---|
| 15:00 – 15: | 30 P | OSTER SESSI | ON 10 and 11 |
| P-S10-85 | Jakub Osko | Poland | Internal exposure monitoring for Polish nuclear facility personnel – current and future status |
| P-S10-111 | Ana Laura Garcia | Uruguay | Implementing Hp(3) in Uruguay: DXT- 100 compliance for IEC 62387 Coefficient of Variation and Non Linearity |
| P-S10-115 | Christy Mae Betos | Philippines | The use of Conversion Coefficients (CC) in the calibration of radiation monitoring instruments |
| P-S10-116 | Christy Mae Betos | Philippines | Assessment of the current Neutron Occupational Exposure Monitoring in the Philippines |
| P-S10-117 | Kristine Marie Romallosa Dean | Philippines | Developing National Standards for Occupational Radiation Protection in the Philippines - New Capabilities & Challenges Ahead |
| P-S10-118 | Kristine Marie Romallosa Dean | Philippines | The effects of the COVID-19 pandemic in occupational radiation protection - a technical service provider's perspective |
| P-S10-171 | Andrea Marcela Castillo Arias | Nicaragua | Procedures for the ensuring the validity of results in the External Dosimetry Laboratory of Nicaragua |

| P-S10-186 | Houda Idihia | Morocco | The Moroccan experience in the implementation of approval of technical service providers in occupational radiation protection |
|-----------|--|---------------------------|--|
| P-S10-196 | Kristine Marie Romallosa Dean | Philippines | Developing a Procedure on Performance Testing for Personnel Monitoring Services (PMS) in the Philippines |
| P-S10-219 | Biljana Petrovic | Bosnia and Herzegovina | Occupational radiation protection in Public Health Institute of RS |
| P-S11-35 | Chadia Rizk | Lebanon | Occupational Radiation Protection Awareness among the Lebanese Health Professionals |
| P-S11-40 | Carlos Einisman | Argentina | New Approaches in Radiation Protection Education |
| P-S11-68 | Fernando Razuck | Brazil | A qualification course in radiation protection for registration of Radiation Protection Supervisor at teaching and research laboratories |
| P-S11-74 | Khairul Anuar Abdullah | Malaysia | The effectiveness of radiation protection intervention (RAPI) module on Radiation Literacy among radiation workers in southern region of Malaysia |
| P-S11-91 | Mariella Adriana Terán Gretter, Juan Pablo Gambini, Pablo Duarte Couto | Uruguay | Radiation Protection training in a PET centre: working the way towards Safety Culture |
| P-S11-175 | Meriam Injirahi | Morocco | Strengthening radiological safety at cnesten through emergency preparedness exercises |
| P-S11-206 | David Kpeglo | Ghana | Post-Graduate Education and Training in Occupational Radiation Protection in Ghana |
| P-S11-214 | Michael Hajek | IAEA | Establishing an E-Learning Radiation Protection Training Course for Occupationally Exposed Workers: Challenges and Successes |

| Friday, 9 September 2022 | | | | | |
|--------------------------|-----------------------------------|-------------------|---|--|--|
| 11:45 – 12:15 | | POSTER SESSION 12 | | | |
| P-S12-23 | Abdallah Munir Abdallah Dawood | Ghana | Development of Radiation Safety Culture in Ghana: Impacts on the Health of Occupational Radiation Workers and Quality Services | | |
| P-S12-123 | Giulia Giaimis | Italy | How to create a safety culture in the Green Jobs sector? | | |

IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT

| Proceedings Series, STI/PUB/2004, Published in 2022 | Occupational Radiation Protection IAEA |
|--|---|
| Safety Reports Series No. 108, Published in 2022 | Radiation Protection in Dental Radiology IAEA |
| Safety Reports Series No. 104, Published in 2021 | Radiation Protection and Safety in Veterinary Medicine IAEA |
| IAEA-TECDOC-1954, Published in 2021 | <u>Occupational Radiation Protection During</u> <u>the Decommissioning of Nuclear</u> <u>Installations IAEA</u> |
| IAEA-TECDOC-1985, Published in 2021 | Assessment of Prospective Cancer Risks from Occupational Exposure to Ionizing Radiation IAEA |
| IAEA Safety Standards Series No. SSG-16 (Rev. 1), Published in 2020 | <u>Establishing the Safety Infrastructure for a Nuclear Power Programme IAEA</u> |
| IAEA Safety Standards Series No. SSG-57, Published in 2020 | Radiation Safety in Well Logging IAEA |
| IAEA Safety Standards Series No. SSG-58, Published in 2020 | <u>Radiation Safety in the Use of Nuclear</u> <u>Gauges IAEA</u> |
| IAEA Safety Standards Series No. SSG-59, Published in 2020 | Radiation Safety of Accelerator Based Radioisotope Production Facilities IAEA |
| IAEA Safety Reports Series No. 101, Published in 2020 | Medical Management of Radiation Injuries |
| IAEA Safety Reports Series No. 100, Published in 2020 | Occupational Radiation Protection in the Uranium Mining and Processing Industry IAEA |
| IAEA Services Series No. 43, Published in 2020 | Occupational Radiation Protection Appraisal Service (ORPAS) Guidelines [IAEA |
| IAEA Safety Standards Series No. SSG-49, Published in 2019 | <u>Decommissioning of Medical, Industrial and</u> <u>Research Facilities IAEA</u> |
| IAEA Safety Standards Series No. GSG-7, Published in 2018 | Occupational Radiation Protection IAEA |
| IAEA Safety Standards Series No. SSG-46, Published in 2018 | Radiation Protection and Safety in Medical Uses of Ionizing Radiation IAEA |
| IAEA Safety Standards Series No. GSG-8, Published in 2018 | Radiation Protection of the Public and the Environment IAEA |

IAEA-TECDOC-1835, Published in 2018

IAEA Safety Standards Series No. GSR Part 1 (Rev. 1) Published in 2016

IAEA Safety Standards Series No. GSR Part 2 Published in 2016

IAEA Safety Standards Series No. GSR Part 4 (Rev. 1) Published in 2016

Safety Reports Series No. 84, Published in 2015

IAEA Safety Standards Series No. GSR Part 7, Published in 2015

Proceedings Series, STI/PUB/1663, Published in 2015

IAEA Safety Standards Series No. GSR Part 3, Published in 2014

IAEA Services Series No. 27, Published in 2014 IAEA-TECDOC-1747, Published in 2014

IAEA-TECDOC-1735, Published in 2014

Safety Reports Series No. 68, Published in 2011

IAEA Safety Standards Series No. SSG-11, Published in 2011

IAEA Safety Standards Series No. SSG-8, Published in 2010

Safety Reports Series No. 49, Published in 2006

<u>Technical and Scientific Support</u> <u>Organizations Providing Support to</u> <u>Regulatory Functions | IAEA</u>

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Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards | IAEA

SARIS Guidelines | IAEA

The Information System on Occupational Exposure in Medicine, Industry and Research (ISEMIR): Industrial Radiography IAEA

<u>The Information System on Occupational</u> <u>Exposure in Medicine, Industry and</u> <u>Research (ISEMIR): Interventional</u> <u>Cardiology | IAEA</u>

Radiation Protection and NORM Residue Management in the Production of Rare Earths from Thorium Containing Minerals | IAEA

Radiation Safety in Industrial Radiography | IAEA

Radiation Safety of Gamma, Electron and X Ray Irradiation Facilities | IAEA

Assessing the Need for Radiation Protection Measures in Work Involving Minerals and Raw Materials | IAEA

| Safety Standards Series No. RS-G-1.8, Published in 2005 | Environmental and Source Monitoring for Purposes of Radiation Protection IAEA |
|---|--|
| Safety Reports Series No. 37, Published in 2004 | <u>Methods for Assessing Occupational</u> <u>Radiation Doses due to Intakes of</u> <u>Radionuclides IAEA</u> |
| Safety Reports Series No. 33, IAEA, Vienna Published in 2003 | Radiation Protection against Radon in Workplaces other than Mines IAEA |
| Safety Reports Series No. 34, Published in 2003 | Radiation Protection and the Management of Radioactive Waste in the Oil and Gas Industry IAEA |
| Proceedings Series, STI/PUB/1145, Published in 2003 | <u>Occupational Radiation Protection:</u> Protecting Workers Against Exposure to Ionizing Radiation IAEA |
| Proceedings Series, STI/PUB/1145, Published in 2003 | <u>Occupational Radiation Protection:</u> Protecting Workers Against Exposure to Ionizing Radiation IAEA |
| Safety Reports Series No. 21, Published in 2002 | Optimization of Radiation Protection in the Control of Occupational Exposure IAEA |

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International Conference on Topical Issues in Nuclear Installation Safety: Strengthening Safety of Evolutionary and Innovative Reactor Designs

18-21 October 2022, Vienna, Austria

IAEA International Ministerial Conference on Nuclear Power in the 21st Century 26-28 October 2022, Washington, DC, United States of America

Symposium on International Safeguards: Reflecting on the Past and Anticipating the Future 31 October - 4 November 2022, Vienna, Austria

International Conference on Integrated Medical Imaging in Cardiovascular Diseases

13 - 16 December 2022, Vienna, Austria

International Conference on Effective Nuclear and Radiation Regulatory Systems 13 - 16 February 2023, Abu Dhabi, United Arab Emirates

International Symposium on Trends in Radiopharmaceuticals

17 - 23 April 2023, Vienna, Austria

International Symposium on Uranium Raw Material for the Nuclear Fuel Cycle

8 - 12 May 2023, Vienna, Austria

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