## SUNDAY 20 MAY 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>1030-1200</td>
<td><strong>ARPS EXECUTIVE</strong></td>
<td>LEVEL 1, MEETING ROOM 107</td>
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<tr>
<td>1200-1400</td>
<td><strong>SCIENTIFIC PROGRAM COMMITTEE MEETING</strong></td>
<td>LEVEL 1, MEETING ROOM 107</td>
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<td>1400-1800</td>
<td>Registration Desk Open</td>
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<tr>
<td>1400-1700</td>
<td><strong>AOARP EXECUTIVE MEETING</strong></td>
<td>LEVEL 1, MEETING ROOM 107</td>
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<tr>
<td>1500-1700</td>
<td>Speakers Preparation &amp; Lounge Open</td>
<td>MEETING ROOM 108</td>
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<tr>
<td>1900-2100</td>
<td><strong>WELCOME RECEPTION</strong></td>
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### Monday 21 May 2018

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>0715-1700</td>
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<td>0730-0845</td>
<td><strong>REFRESHER COURSES</strong></td>
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<td></td>
<td><strong>ROOM 101/102</strong></td>
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<tr>
<td></td>
<td><strong>LOW DOSE RADIATION BIOLOGY</strong></td>
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<td></td>
<td>Douglas Boreham</td>
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<td><strong>ROOM 103</strong></td>
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<td></td>
<td><strong>RADIATION PROTECTION IN MEDICINE: THE VIEW FROM INSIDE A LARGE CANCER HOSPITAL</strong></td>
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<td>Tomas Kron</td>
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<td><strong>ROOM 104</strong></td>
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<td><strong>NDT AND SEALED SOURCE DEVICES &quot;BACK TO BASICS&quot;</strong></td>
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<td>Frank Galea</td>
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<tr>
<td>0900-0910</td>
<td><strong>WELCOME AND OPENING REMARKS</strong></td>
<td>ROOM 105/106</td>
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<tr>
<td></td>
<td>Associate Professor Brad Cassels</td>
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<td></td>
<td>President, Australasian Radiation Protection Society, and Convenor, AOCRP-5</td>
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<tr>
<td>0910-0950</td>
<td><strong>SESSION 1</strong></td>
<td>ROOM 105/106</td>
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<td><strong>BOYCE WORTHLEY ORATION</strong></td>
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<td></td>
<td><strong>PRUDEANCE AND CONSERVATISM IN RADIATION PROTECTION</strong></td>
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<td>Roger Coates OBE</td>
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<td></td>
<td>President, International Radiation Protection Association</td>
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<tr>
<td>0950-1040</td>
<td><strong>KEYNOTE SPEAKER</strong></td>
<td>ROOM 105/106</td>
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<td></td>
<td><strong>EXTERNAL DOSE ESTIMATIONS FOR FUKUSHIMA RESIDENTS AFTER THE FUKUSHIMA DAI-ICHI NUCLEAR POWER PLANT ACCIDENT</strong></td>
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<tr>
<td></td>
<td>Dr Keiichi Akahane</td>
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<td></td>
<td>National Institute of Radiological Science, Japan</td>
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<tr>
<td>1040-1110</td>
<td>Morning Refreshments, Trade Exhibition &amp; Poster Display</td>
<td>LEVEL 1</td>
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<td>Barista coffee available, courtesy of TELLUS</td>
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2

SESSION 2.1
EXPOSURES DUE TO FUKUSHIMA DAI-ICHI NPP ACCIDENT
Chair/s: Hiroko Yoshida

SESSION 2.2
INDUSTRY AND RESEARCH (1)
Chair/s: Paula Veever

SESSION 2.3
RADIATION DOSIMETRY, MONITORING AND INSTRUMENTATION (1)
Chair/s: Hari Pappinisseri

SESSION 2.4
BIOLOGICAL EFFECTS OF IONISING RADIATION
Chair/s: Jim Hondros

ROOM 105/106
ROOM 104
ROOM 103
ROOM 101/102

1115-1135
STRUCTURE SHIELDING FOR SCHOOL BUILDINGS AGAINST FALLOUT GAMMA RADIATION FROM THE FUKUSHIMA DAI-ICHI NUCLEAR POWER PLANT ACCIDENT
Yasutaka OMORI
Fukushima Medical University, Japan

DIVERSITY AND CHALLENGES FOR RADIATION PROTECTION SERVICES AT ANSTO
Gurava Reddy
INDURI
ANSTO, Australia

CURRENT OCCUPATIONAL DOSES IN AUSTRALIA. A REVIEW OF 30 YEARS OF DATA FROM THE PRMS DATABASE
Anna HAYTON
ARPANSA, Australia

THE MECHANISM OF ILOMSTAT, AN INHIBITOR OF MMPS, IMPROVING THE SURVIVAL OF MICE EXPOSED TO GAMMA-RAY IRRADIATION
Burong HU
Institute of Modern Physics, China

ROOM 104

1135-1155
INTERNAL DOSE ESTIMATION CONSIDERING THE CHARACTERISTICS OF INSOLUBLE CAESIUM-BEARING PARTICLES
Kentaro MANABE
Japan Atomic Energy Agency, Japan

A SHIELDING DESIGN FOR AN ACCELERATOR-BASED NEUTRON SOURCE
Zhi-Hong ZHANG
Shanghai Institute of Applied Physics, China

THYROID MEASUREMENT INTERCOMPARISON EXERCISE FOR INTERNAL CONTAMINATION MONITORING OF I-131 IN ASIA
Wi-ho HA
Korea Institute of Radiological And Medical Science

TECHNICAL REVIEW ON HUMAN BODY EFFECTS OF TRITIUM RELEASED FROM NUCLEAR POWER PLANTS IN KOREA
Kyo-Youn KIM
Korea Atomic Energy Research Institute, Korea

ROOM 103

1155-1215
MODELLING THE REDUCTIONS IN AMBIENT DOSE EQUIVALENT RATES DUE TO WEATHERING AND HUMAN ACTIVITIES AFTER THE FUKUSHIMA ACCIDENT
Sakae KINASE
Japan Atomic Energy Agency, Japan

ESTIMATING MONETARY VALUE ASSOCIATED WITH RADIATION DOSE IN KOREAN CASE
Hyeong Ki SHIN
Korea Institute of Nuclear Safety, Korea

AN INTRODUCTION TO CHINA JINPING UNDERGROUND LABORATORY AND ITS APPLICATION IN RADIATION PROTECTION
Zhi ZENG
Tsinghua University, China

THE ROLE OF DOSE RATE ON CANCER INDUCTION IN THE LUNG FOLLOWING INHALATION OF BETA-Gamma EMITTING RADIONUCLIDES
Christopher THOME
Northern Ontario School of Medicine, Canada

ROOM 101/102

1215-1235
QUESTIONS & DISCUSSION

A REVIEW OF DOSE RATE METERS AS FIRST RESPONDERS TO IONISING RADIATION
Aqeel AKBER
Safe Radiation, Australia

OXIDATIVE STRESS AND CELL DEATH IN WHOLE BODY LOW DOSE X-RADIATION EXPOSURE IN AN IN VIVO MODEL
Tony HOOKER
Environment Protection Authority, Australia

ROOM 101/102

1235-1335
Lunch, Trade Exhibition & Poster Display

Barista coffee available, courtesy of
### Session 3.1: Doses and Effects from the Fukushima Accident

<table>
<thead>
<tr>
<th>Chair/s</th>
<th>Hiroko Yoshida, Kyo-Youn Kim</th>
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<td>Chair/s</td>
<td>Kent Gregory, Takeshi Iimoto</td>
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<td>Geehyun Kim, Burçin Okyar</td>
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<td>Brad Cassels, Ruth Shaw</td>
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<tr>
<td>Session</td>
<td>1340-1400</td>
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<tr>
<td>Title</td>
<td>Application of Rascal to the Radioactive Consequence Evaluation of Fukushima Nuclear Accident</td>
</tr>
<tr>
<td>Speaker</td>
<td>Jie Hou, Nuclear and Radiation Safety Center, China</td>
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### Session 3.2: Phil, Aus, USA, and Jpn Synergize for Nuclear/Radiation Asian Teacher/Student Development

<table>
<thead>
<tr>
<th>Chair/s</th>
<th>Hiroko Yoshida, Kyo-Youn Kim</th>
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<tr>
<td>Session</td>
<td>1400-1420</td>
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<tr>
<td>Title</td>
<td>Activities under the IAEA- TCP 2012-2017</td>
</tr>
<tr>
<td>Speaker</td>
<td>Rhodora Leonin, Philippine Nuclear Research Institute-DOST, Philippines</td>
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### Session 3.3: Radiation Protection in Practice and Tools for Improvement

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<tr>
<th>Chair/s</th>
<th>Hiroko Yoshida, Kyo-Youn Kim</th>
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<td>Session</td>
<td>1420-1440</td>
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<tr>
<td>Title</td>
<td>Worldwide Medical and Occupational Exposure Reviews</td>
</tr>
<tr>
<td>Speaker</td>
<td>Cameron Lawrence, ARPANSA, Australia</td>
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### Session 3.4: Waste Management (1)

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<tr>
<th>Chair/s</th>
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<td>Brad Cassels, Ruth Shaw</td>
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<tr>
<td>Session</td>
<td>1440-1500</td>
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<tr>
<td>Title</td>
<td>Establishing a National Radioactive Waste Management Facility – The Regulator’s Role in Communicating with the Public</td>
</tr>
<tr>
<td>Speaker</td>
<td>Marcus Grzechnik, ARPANSA, Australia</td>
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</table>

### 1340-1400
- **Title**: Application of Rascal to the Radioactive Consequence Evaluation of Fukushima Nuclear Accident
- **Speaker**: Jie Hou, Nuclear and Radiation Safety Center, China

### 1400-1420
- **Title**: Activities under the IAEA- TCP 2012-2017
- **Speaker**: Rhodora Leonin, Philippine Nuclear Research Institute-DOST, Philippines

### 1420-1440
- **Title**: Worldwide Medical and Occupational Exposure Reviews
- **Speaker**: Cameron Lawrence, ARPANSA, Australia

### 1440-1500
- **Title**: Establishing a National Radioactive Waste Management Facility – The Regulator’s Role in Communicating with the Public
- **Speaker**: Marcus Grzechnik, ARPANSA, Australia
## SESSION 4.1
COMMUNICATION & PUBLIC ENGAGEMENT

**Sponsored by**

ILUKA

<table>
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<th>Chair/s</th>
<th>Session Details</th>
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<tbody>
<tr>
<td>Hefin Griffiths</td>
<td><strong>ACTIVITIES OF IRPA TASK GROUP ON PUBLIC UNDERSTANDING</strong></td>
</tr>
<tr>
<td>Paul Marks</td>
<td>Hiroko YOSHIDA</td>
</tr>
<tr>
<td></td>
<td>International Radiation Protection Association, Japan</td>
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<tr>
<td>Kyo-Youn Kim</td>
<td><strong>FAST THREE – DIMENSIONAL RADIATION FIELD CALCULATION FOR LARGE SCALE NUCLEAR FACILITIES</strong></td>
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<tr>
<td>Frank Harris</td>
<td>Yuanjie BI</td>
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<tr>
<td>Brent Rogers</td>
<td>China Institute of Atomic Energy, China</td>
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<td><strong>BEYOND COMPLIANCE – RADIATION SAFETY MANAGEMENT SYSTEM IN HEALTH CARE</strong></td>
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<td>Glenn STURCHIO</td>
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<td>Mayo Clinic, USA</td>
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**ROOM 105/106**

**1535-1555**

- Activities of IRPA Task Group on Public Understanding
  - Hiroko YOSHIDA
    - International Radiation Protection Association, Japan

**1555-1615**

- Australia’s ‘Talk to a Scientist Program’ – Past, Present and Future
  - Marcus GRZECHNIK
    - ARPANSA, Australia

**1615-1635**

- Learning from Incidents – Australian Radiation Incident Register (ARIR)
  - Chris NICKEL
    - ARPANSA, Australia

**1635-1655**

- Australian Radon Monitoring Network
  - Cameron JEFFRIES
    - Flinders Medical Centre, Australia

**SESSION 4.2
DECOMMISSIONING**

**ROOM 104**

**1535-1555**

- Consideration on Regulatory Framework & Technical Standards for Decommissioning in Korea
  - Yongki CHI
    - Korea Institute of Nuclear Safety, Korea

**1555-1615**

- Safety Aspect of Decommissioning of PET Cyclotron
  - Hee-Seock LEE
    - Pohang Accelerator Lab/POSTECH, South Korea

**1615-1635**

- Ranger Uranium Mine: Planning for Closure
  - Elmarie FAGAN
    - Energy Resources of Australia

**SESSION 4.3
RADIATION PROTECTION IN MEDICINE (1)**

**ROOM 103**

**1535-1555**

- Measurement and Simulation of Neutrons and Gamma Rays around 15 MV Medical Linear Accelerator
  - Thiansin LIAMSUWAN
    - Thailand Institute of Nuclear Technology, Thailand

**1555-1615**

- Beyond Compliance – Radiation Safety Management System in Health Care
  - Glenn STURCHIO
    - Mayo Clinic, USA

**1615-1635**

- Pet Facility Shielding Calculator
  - Kent GREGORY
    - SA Radiation, Australia

**SESSION 4.4
MINING AND MINERAL PROCESSING IS A SIGNIFICANT CONTRIBUTOR TO AUSTRALIA’S ECONOMY**

**1635-1655**

- Analysis of Examination Reasons for Multiple Scans in Paediatric CT in Japan
  - Takayasu YOSHITAKE
    - Shinbeppu Hospital, Japan
1700-1830  IRPA ASSOCIATE SOCIETY FORUM
ROOM 105/106

Chairs – Roger Coates | Bernard le Guen | Roha Tukimin

Agenda
1. Welcome by the President of IRPA, the IRPA Executive Officer, and the Chair of AOARP
2. Brief introduction by the Associate Societies (AS) present
3. An Overview of IRPA Activities: Strategy and the key activities
4. System of Protection Consultation – overview and ‘what next’
5. Regional Representation consultation
6. Horizon Scanning – issues on our ‘Watch List’
   Opportunity for AS input of areas of concern
7. Non Ionising Radiation – what should IRPA be doing?
8. IRPA Young Persons Network
9. Issues from the Associate Societies
10. Host and location of the next Latin America Regional Congress in 2022
11. Close

1845  Free evening for attendees

1900-2200  COMMITTEE & KEYNOTE SPEAKERS DINNER

SPONSORSHIP at ASIAN AND OCEANIC CONGRESS ON RADIATION PROTECTION (May 2018)

The Department of Industry, Innovation and Science facilitates the growth and productivity of globally competitive industries. It supports the building of a strong scientific capability, business innovation and the commercialisation of new ideas as critical requirements for productivity and economic growth, working closely with industry, businesses, the science community and other stakeholders, and across governments.

The Department also has responsibility for implementing the National Radioactive Waste Management Act 2012 which includes selection of a site, and the establishment and operation of a national radioactive waste management facility. The facility will provide for disposal of low level waste and interim storage of intermediate level waste produced in Australia. A taskforce has been appointed to progress this project.
**PROGRAM**

**MAJOR SPONSOR**

**TUESDAY 22 MAY 2018**

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<tr>
<td>ROOM 101/102</td>
<td>OCCUPATIONAL RADIATION PROTECTION DURING HIGH EXPOSURE SITUATIONS</td>
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<tr>
<td>Burchin OKYAR</td>
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<tr>
<td>ROOM 103</td>
<td>RADON, SHOULD WE BE CONCERNED?</td>
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<td>Stephen SOLOMON</td>
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<tr>
<td>ROOM 104</td>
<td>OVERVIEW OF THE RADIOFREQUENCY HEALTH SCIENCE AND ITS RELATION TO INTERNATIONAL GUIDELINES</td>
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<tr>
<td>Rick TINKER</td>
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<tr>
<td>0900-0910</td>
<td><strong>WELCOME AND HOUSEKEEPING</strong></td>
<td>ROOM 105/106</td>
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<tr>
<td>0910-1000</td>
<td><strong>SESSION 5</strong></td>
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<tr>
<td>Chair: Carl-Magnus Larsson</td>
<td>Co-Chair: Brad Cassels</td>
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<td><strong>KEYNOTE SPEAKER</strong></td>
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<tr>
<td>IAEA RADIATION SAFETY STANDARDS – FROM THEORY TO PRACTICE: MEETING THE RADIATION PROTECTION CHALLENGES IN FACILITIES AND ACTIVITIES</td>
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<tr>
<td>Dr Miroslav Pinak</td>
<td>International Atomic Energy Agency</td>
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<tr>
<td>1000-1030</td>
<td><strong>KEYNOTE SPEAKER</strong></td>
<td>ROOM 105/106</td>
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<tr>
<td>Priorities of the International Commission on Radiation Protection</td>
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<tr>
<td>Christopher Clements</td>
<td>Scientific Secretary, ICRP</td>
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<tr>
<td>Australian Government Department of Industry, Innovation and Science</td>
<td>National Radioactive Waste Management Facility</td>
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<td>1030-1100</td>
<td>Morning Refreshments, Trade Exhibition &amp; Poster Display</td>
<td>LEVEL 1</td>
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<td>Barista coffee available, courtesy of Ansto Radiation Services TELLUS</td>
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**Enjoy a Coffee compliments of ANSTO**

**Visit us next to the Barista Cart**

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<th>Time</th>
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<tr>
<td>1105-1125</td>
<td><strong>SESSION 6.1</strong>&lt;br&gt;IAEA&lt;br&gt;RADIATION PROTECTION IN MINING (1)</td>
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<td>Chair/s: Miroslav Pinak, Ches Mason&lt;br&gt;</td>
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<td><strong>SESSION 6.2</strong>&lt;br&gt;YOUNG GENERATION NETWORK SESSION</td>
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<td>Chair/s: Akihiro Sakoda, Alexander Borovskis, Peter Harty, Hiroshi Yasuda</td>
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<td>Room 104</td>
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<td>1105-1120</td>
<td><strong>SESSION 6.3</strong>&lt;br&gt;RADIATION DOSIMETRY, MONITORING AND INSTRUMENTATION (2)</td>
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<td>Chair/s: Mike Wood</td>
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<td>Room 103</td>
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<td>1105-1145</td>
<td><strong>SESSION 6.4</strong>&lt;br&gt;5G / NON-IONISING RADIATION</td>
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Please note this session will not run in alignment with other concurrent sessions.

**SESSION 6.1**

- **IAEA RADIATION PROTECTION IN MINING (1)**
  - Chair/s: Miroslav Pinak, Ches Mason
  - Room 105/106

**SESSION 6.2**

- **YOUNG GENERATION NETWORK SESSION**
  - Chair/s: Akihiro Sakoda, Alexander Borovskis, Peter Harty, Hiroshi Yasuda
  - Room 104

**SESSION 6.3**

- **RADIATION DOSIMETRY, MONITORING AND INSTRUMENTATION (2)**
  - Chair/s: Mike Wood
  - Room 103

**SESSION 6.4**

- **5G / NON-IONISING RADIATION**
  - Sponsored by AMTA
  - Room 101/102

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**1105-1125**

- **RADIATION PROTECTION IN MINING – MEETING THE BSS REQUIREMENTS**
  - Haridasan PAPPINISSERI, International Atomic Energy Agency, Austria

**1125-1140**

- **RADIATION DOSE MEASUREMENT USING THE SMALL TYPE OPTICALLY STIMULATED LUMINESCENCE (OSL) DOSIMETERS CALLED “NANODOT” FOR PAEDIATRIC CT EXAMINATIONS.**
  - Vergil Lorenzo CRUZ, Nagase Landauer, Japan

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**1125-1145**

- **URANIUM MINING AND REMEDIATION IN AUSTRALIA’S NORTHERN TERRITORY**
  - Peter WAGGITT, NT Dept of Primary Industry and Resources, Australia

**1135-1150**

- **DEVELOPING ELECTROMAGNETIC FIELD EXPOSURE (EMF) COMPLIANCE ASSESSMENT STANDARDS FOR 5G**
  - Mike WOOD, Telstra, Australia

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**1145-1205**

- **RADIATION PROTECTION STRATEGIES IN HIGH-GRADE UNDERGROUND URANIUM MINES**
  - Kari TOEWS, Cameco Corporation, Canada

**1155-1205**

- **RADIATION DOSE MEASUREMENT USING THE SMALL TYPE OPTICALLY STIMULATED LUMINESCENCE (OSL) DOSIMETERS CALLED “NANODOT” FOR PAEDIATRIC CT EXAMINATIONS.**
  - Vergil Lorenzo CRUZ, Nagase Landauer, Japan

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**1120-1135**

- **REPORT ON RECENT ACTIVITIES OF THE YOUNG RESEARCHERS’ ASSOCIATION FOR JAPAN HEALTH PHYSICS SOCIETY**
  - Noriaki KATAOKA, Tokyo Metropolitan Industrial Technology Research Institute, Japan

**1140-1155**

- **THE PRELIMINARY INVESTIGATION AND STUDY ON THE EYE-LENS DOSE MEASUREMENT DURING THE OUTAGE OF PWR**
  - Yunshi XIAO, China Institute for Radiation Protection, China

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**1130-1145**

- **THE CHALLENGE FOR CHINESE YOUNG RESEARCHERS IN RADIATION PROTECTION**
  - Zhi ZENG, Tsinghua University, China

**1145-1205**

- **THE CHALLENGE FOR CHINESE YOUNG RESEARCHERS IN RADIATION PROTECTION**
  - Zhi ZENG, Tsinghua University, China

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**1145-1205**

- **THE PRELIMINARY INVESTIGATION AND STUDY ON THE EYE-LENS DOSE MEASUREMENT DURING THE OUTAGE OF PWR**
  - Yunshi XIAO, China Institute for Radiation Protection, China

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**1145-1205**

- **THE CHALLENGE FOR CHINESE YOUNG RESEARCHERS IN RADIATION PROTECTION**
  - Zhi ZENG, Tsinghua University, China

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**1145-1205**

- **THE CHALLENGE FOR CHINESE YOUNG RESEARCHERS IN RADIATION PROTECTION**
  - Zhi ZENG, Tsinghua University, China
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<tr>
<td>1205-1225</td>
<td>CURRENT STATUS ON RADIATION EXPOSURE LEVEL OF CHINESE URANIUM MINING INDUSTRY</td>
<td>Senlin LIU</td>
<td>China Institute of Atomic Energy</td>
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<td>RECENT ACTIVITIES AND FUTURE PLAN OF YOUNG SCIENTIST GROUP OF KOREAN ASSOCIATION FOR RADIATION PROTECTION</td>
<td>Wi-Ho HA</td>
<td>KIRAMS, South Korea</td>
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<td>REVIEW OF DOSE-RATE EFFECTS IN THE THERMOLUMINESCENCE OF LiF:Mg,Ti</td>
<td>Yigal HOROWITZ</td>
<td>Ben-Gurion University of The Negev, Israel</td>
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<td>ELECTROMAGNETIC ENERGY (EME) EXPOSURE ASSESSMENT OF TELSTRA'S 5G TRIAL NETWORK ON THE GOLD COAST, AUSTRALIA</td>
<td>Steve ISKRA</td>
<td>Telstra, Australia</td>
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<tr>
<td>1225-1245</td>
<td>RADIATION PROTECTION IN MINING AND MINERALS PROCESSING – GETTING THE BALANCE RIGHT</td>
<td>Jim HONDROS</td>
<td>JRHC Enterprises, Australia</td>
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<tr>
<td>1205-1220</td>
<td>DEVELOPMENTS IN THE AUSTRALIAN YOUNG GENERATION IN NUCLEAR</td>
<td>Alexander BOROVSKIS</td>
<td>AusYGN, Australia</td>
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<td>1220-1245</td>
<td>EXPERIENCE OF SUPERVISORS PANEL DISCUSSION</td>
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<td>1245-1345</td>
<td>Lunch, Trade Exhibition &amp; Poster Display</td>
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**YOUNG GENERATION NETWORK LUNCH**

Those delegates who have attended the YGN session, you are invited to stay in the meeting room for lunch and networking with your peer group.
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<tr>
<td>1350-1410</td>
<td><strong>OCCUPATIONAL RADIATION PROTECTION IN THE URANIUM MINING AND PROCESSING INDUSTRY</strong>&lt;br&gt;H.Burcin OKYAR&lt;br&gt;International Atomic Energy Agency, Austria</td>
<td><strong>RADIATION PROTECTION IN THE LABORATORY</strong>&lt;br&gt;Miroslav Pinak&lt;br&gt;Peter Waggitt&lt;br&gt;Peter Thomas&lt;br&gt;Paula Veevers&lt;br&gt;Seung-Young Jeong&lt;br&gt;Brad Cassels&lt;br&gt;Ken Joyner</td>
<td><strong>RADIATION PROTECTION IN INDUSTRY AND RESEARCH (2)</strong>&lt;br&gt;Miroslav Pinak&lt;br&gt;Peter Waggitt&lt;br&gt;Peter Thomas&lt;br&gt;Paula Veevers&lt;br&gt;Seung-Young Jeong&lt;br&gt;Brad Cassels&lt;br&gt;Ken Joyner</td>
<td><strong>NON-IONISING RADIATION (1)</strong>&lt;br&gt;Miroslav Pinak&lt;br&gt;Peter Waggitt&lt;br&gt;Peter Thomas&lt;br&gt;Paula Veevers&lt;br&gt;Seung-Young Jeong&lt;br&gt;Brad Cassels&lt;br&gt;Ken Joyner</td>
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<td>1410-1430</td>
<td><strong>PRACTICAL RADIATION PROTECTION IN MINING – COMMUNICATING THE RADIATION RISK</strong>&lt;br&gt;Alice JAGGER&lt;br&gt;Consultant, Australia</td>
<td><strong>DEVELOPMENT OF DOSE ASSESSMENT SYSTEM (ADAMO) FOR PRECAUTIONARY PROTECTION UNDER CIRCUMSTANCE OF NUCLEAR EMERGENCY</strong>&lt;br&gt;Michael Litwin&lt;br&gt;Paul Marks&lt;br&gt;The topics covered in the seminar are&lt;br&gt;BASICS OF RADIATION PROTECTION – DOSE AND RISK, ICRP AND IAEA BASIC SAFETY STANDARDS&lt;br&gt;AS/NZS 2243.4-A PRACTICAL STANDARD FOR RADIATION SAFETY IN LABORATORIES</td>
<td><strong>NON-IONISING RADIATION AND HEALTH: THE NEW AUSTRALIAN CENTRE FOR ELECTROMAGNETIC BIOEFFECTS RESEARCH</strong>&lt;br&gt;Rhys PRESTON&lt;br&gt;Chrysos Corporation, Australia&lt;br&gt;Rick TINKER&lt;br&gt;ARPANSA, Australia</td>
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<td>1430-1450</td>
<td><strong>GAMMA SPECTROMETRY ANALYSIS FOR VARIOUS MINERALOGY</strong>&lt;br&gt;Michael STUCKINGS&lt;br&gt;The University of Adelaide, Australia</td>
<td><strong>INVESTIGATION ON RADIATION SAFETY OF X-RAY EQUIPMENT USED IN ELECTRONICS INDUSTRY IN TAIWAN</strong>&lt;br&gt;Fang-yuh HSU&lt;br&gt;National Tsing Hua University, Taiwan</td>
<td><strong>WIRELESS RADIATION AND HEALTH: THE CASE FOR THE PRECAUTIONARY PRINCIPLE</strong>&lt;br&gt;Dariusz LESZCZYNSKI&lt;br&gt;University of Helsinki, Finland</td>
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<td>1450-1510</td>
<td><strong>RADON EXHALATION LOSS FROM THIN LAYERS OF FINE GRAINS – MODELS AND EXPERIMENTAL ESTIMATES</strong>&lt;br&gt;Matthew WIGGINS&lt;br&gt;Safe Radiation, Australia</td>
<td><strong>QUESTIONS &amp; DISCUSSION</strong>&lt;br&gt;The 5G TELECOMMUNICATION TECHNOLOGY-EMITTED MILLIMETER-WAVES: LACK OF RESEARCH ON BIOEFFECTS</td>
<td><strong>THE 5G TELECOMMUNICATION TECHNOLOGY-EMITTED MILLIMETER-WAVES: LACK OF RESEARCH ON BIOEFFECTS</strong>&lt;br&gt;Dariusz LESZCZYNSKI&lt;br&gt;University of Helsinki, Finland</td>
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<td>1510-1540</td>
<td>Afternoon Refreshments, Trade Exhibition &amp; Poster Display</td>
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| 1545-1605  | SESSION 8.1 WASTE MANAGEMENT (2)                                              | Marcus Grzechnik and Massey de los Reyes     | ROOM 105/106   | Please note this session will not run in alignment with other concurrent sessions. Presented by:  
Peter Thomas  
Stephen Long  
Michael Litwin  
Brad CASSELS  
Monash University, Australia  

RADIOISOTOPE INTERACTION WITH NATURAL ENVIRONMENT: A SAFETY ASSESSMENT PARAMETER FOR RADIOACTIVE MATERIAL STORAGE FACILITIES  
Yuma HIRATA  
Kyushy University, China  

WHY THE PRECAUTIONARY PRINCIPLE IS NEEDED FOR NON-IONISING RADIATION DEVICES  
Victor LEACH  
ORSAA, Australia  

CANCER RISK FOLLOWING CHILDHOOD CT SCAN EXPOSURE: USING PROPENSITY SCORES TO ACCOUNT FOR CONFOUNDING BY INDICATION  
Jasmine McBAIN-MILLER  
University of Melbourne, Australia  

RADIOFREQUENCY (RF) RADIATION SAFETY ASSESSMENT AROUND TELECOMMUNICATION STRUCTURE IN MALAYSIA  
Roha TUKIMIN  
Malaysia Nuclear Agency, Malaysia |
| 1605-1625  | SESSION 8.2 RADIATION PROTECTION IN THE LABORATORY (CONT.)                     | Peter Thomas and Peter Harty                 | ROOM 104       | Paul Marks  
The topics covered in the seminar are  
PERSONAL RADIATION MONITORING – ASSESSING EXTERNAL AND INTERNAL DOSE  
AREA MONITORING AND PPE – GOOD LABORATORY PRACTICE  

CANCER RISKS FOLLOWING LOW-DOSE IONIZING RADIATION FROM CT SCANS: EXPLORING THE EFFECTS OF REVERSE CAUSATION AND ORGAN DOSE ON RISK  
John D MATHEWS  
University of Melbourne  

EFFECTIVE NON-IONIZING RADIATION PROTECTION  
Andrew WOOD  
Swinburne University of Technology, Australia |
| 1625-1645  | SESSION 8.3 RADIATION PROTECTION IN MEDICINE (2)                               | Brent Rogers and Simon Turner                | ROOM 103       | Participants must attend both sessions in order to gain the full benefit of the seminar  
CANCER RISKS FOLLOWING LOW-DOSE IONIZING RADIATION FROM CT SCANS: EXPLORING THE EFFECTS OF REVERSE CAUSATION AND ORGAN DOSE ON RISK  
John D MATHEWS  
University of Melbourne  

EFFECTIVE NON-IONIZING RADIATION PROTECTION  
Andrew WOOD  
Swinburne University of Technology, Australia |
| 1645-1705  | SESSION 8.4 NON-IONISING RADIATION (2)                                        | Cameron Jeffries and Simon Turner           | ROOM 101/102   | 2017 INTERNATIONAL CONFERENCE ON RADIATION PROTECTION IN MEDICINE: ACHIEVING CHANGE IN PRACTICE  
Peter THOMAS  
ARPANSA, Australia  

NIR PANEL DISCUSSION  
Rick TINKER  
Dariusz LESZCZYNSKI  
Roha TUKIMIN  
Andrew WOOD |
1715-1845  IRPA-IOMP-WHO-IAEA-UNSCEAR-ICRP RADIATION PROTECTION IN MEDICINE

PLENARY SESSION

Chairs: Zhanat Carr & Bernard Le Guen

The representatives of the participating organizations will provide their views from different global perspectives on radiation protection in medicine (RPM), in light of the outcomes of the International Conference on RPM held in Vienna in December 2017, and taking into account lessons learnt in five years of implementation of the “Bonn Call for Action”.

The global perspective will be complemented by the views of key stakeholders, including radiologists, radiographers and patients. Each panelist will deliver a short statement, followed by a facilitated discussion.

Panellists

- Chris Clements  
  *ICRP*
- Bernard Le Guen  
  *IRPA*
- Miroslav Pinak  
  *IAEA*
- Madan Rehani  
  *IOMP*
- Anthony Wallace  
  *On behalf of UNSCEAR*
- Lawrence Lau  
  *Radiologist, WHO consultant, on behalf of the WHO Global Initiative on Radiation Safety in Health Care Settings project*
- Robin Hart  
  *International Society of Radiographers and Radiological Technologists (ISRRT)*
- Stephanie Newels  
  *International Network of Patients for Patient Safety (PFPS)*

1845  Free evening for attendees

CONFERENCE WIFI

Delegates have access to complimentary WIFI for the duration of the conference. Please select network - *Landauer Australasia* - and enter password *LANDAUER* for access. Please note that movies, music or illicit downloads are restricted.

Sponsored by *Landauer*
**WEDNESDAY 23 MAY 2018**

0715-1700  Registration Desk Open  

**0730-0845  REFRESHER COURSES**

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<td><strong>RECENT PROGRESS IN THE FUKUSHIMA NUCLEAR ISSUE: DOSE EVALUATION FOR FUKUSHIMA RESIDENTS</strong></td>
<td><strong>DEVELOPMENT OF THE SAFETY CASE AND WASTE ACCEPTANCE CRITERIA FOR RADIOACTIVE WASTE DISPOSAL</strong></td>
<td><strong>PROTON BEAM THERAPY</strong></td>
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<td>Yasutaka Omori</td>
<td>Kapila Fernando</td>
<td>Kevin Nelson</td>
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**0900-0910  WELCOME AND HOUSEKEEPING**

**0910-1000  SESSION 9**  
Chair: Brad Cassels | Co Chair: Peter Harty

**KEYNOTE SPEAKER**

*Radioactive Waste Disposal – Do Regulators Fix the Right Problem and Do They Do It Right?*

Dr Carl-Magnus Larsson  
Chief Executive Officer, Australian Radiation Protection and Nuclear Safety Agency (ARPANSA)

**1000-1030  GLOBAL NUCLEAR NON-PROLIFERATION AND NUCLEAR SECURITY REGIME – IMPLICATIONS FOR THE INDO-PACIFIC REGION**

**INVITED SPEAKER**

Dr Robert Floyd  
Australian Safeguards and Non-Proliferation Office, Australia

**1030-1100  Morning Refreshments Trade Exhibition & Poster Display**  
Barista coffee available, courtesy of
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<tr>
<td>10:00-10:25</td>
<td>WHO – EMERGENCY PREPAREDNESS &amp; RESPONSE SESSION</td>
<td>Zhanat Carr, Rick Tinker, Hari Pappinisseri</td>
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| 10:25-11:00| WHO ROLE IN STRENGTHENING GLOBAL PREPAREDNESS FOR RADIOLOGICAL AND NUCLEAR EMERGENCIES | Zhanat Carr (World Health Organization, Switzerland)  
Yunxiang Wang (School of Physics, Peking University, China) 
Munehiko Kowatari, Hiroshi Yoshitomi (Japan Atomic Energy Agency, Japan) |
| 11:00-11:30| STUDY ON ATMOSPHERIC RADON PROGENY CONCENTRATION AND ITS RELATIONSHIP WITH PM2.5 IN BEIJING | Kent Gregory, Mathieu Messeiller (SA Radiation, Australia) |
| 11:30-12:00| PRESENT STATUS OF CALIBRATION FIELDS AND COLLABORATIVE ACTIVITIES AT THE FACILITY OF RADIATION STANDARDS (FRS), JAPAN ATOMIC ENERGY AGENCY (JAEA) | Muheiko Kowatari (Department of Health & Human Service, Australia) |
| 12:00-12:30| REVIEW OF SECURITY ARRANGEMENTS FOR PORTABLE DENSITY/ MOISTURE GAUGES DURING TRANSPORT | Simon Robertshaw (Department of Health & Human Service, Australia) |

**Room 105/106**

**Session 10.1**: WHO – EMERGENCY PREPAREDNESS & RESPONSE SESSION

- Chair/s: Zhanat Carr, Rick Tinker
- Chair/s: Cameron Jeffries, Hari Pappinisseri
- Chair/s: Geehyun Kim, Ian Furness
- Chair/s: Brent Rogers, Simon Toomey

**Room 104**

- Room 103
- Room 101/102
### PROGRAM

**1225-1245**  **QUESTIONS & DISCUSSION**

**MISSION TO MARS: EXPECTED RADIATION DOSES TO CREW MEMBERS**
Andrew JOHNSTON

Ian FURNESS
Southern Radiation Services, Australia

**SIMULATION OF ALPHA PARTICLE TRACK IMAGES ON FLUORESCENT NUCLEAR TRACK DETECTORS USING MONTE CARLO CODE**
Takuya HASHIZUME
Nagase Landauer, Japan

**QUESTIONS & DISCUSSION**

**1245-1345**  **Lunch, Trade Exhibition & Poster Display**

*Barista coffee available, courtesy of*

**LEVEL 1**

### SESSION 11

**SESSION 11.1**  **IRPA-IOMP-WHO-IAEA JOINT SESSION ON “SAFETY CULTURE IN HEALTH CARE”**

**SESSION 11.2**  **ENVIRONMENTAL RADIATION PROTECTION**

**SESSION 11.3**  **RADIATION DOSIMETRY, MONITORING AND INSTRUMENTATION (4)**

**SESSION 11.4**  **RADIATION RISK MODELS**

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<th>Takeshi limoto</th>
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#### ROOM 105/106

**1350-1410**  **Opening remarks and introduction**

**OVERVIEW OF RADIATION SAFETY CULTURE IN HEALTHCARE (RSCHC)**

Madan REHANI
IOMP, Massachusetts General Hospital, Harvard Medical School, USA

**1350-1355**  **210Po EMISSIONS FROM A COAL-FIRED POWER PLANT WITH WESP IN CHINA**

Chuangao WANG
China Institute of Atomic Energy, China

**1355-1410**  **CHARACTERISTIC LIMITS AND THEIR APPLICATION TO NEUTRON DOSIMETRY**

Stephen LONG
ARPANSA, Australia

**TIME DEPENDENT MODIFYING FACTORS FOR CANCER MORTALITY ASSOCIATION WITH LOW DOSE AND LOW DOSE-RATE EXPOSURE TO IONIZING RADIATION IN J-EPISEODE**

Hiroshige FURUTA
Institute of Radiation Epidemiology, Japan

#### ROOM 104

**1350-1410**  **CHARACTERIZATION OF Po-210 AND Pb-210 IN DIFFERENT SIZE GROUPS OF AIRBORNE PARTICLES IN NORM INDUSTRY**

Qifan WU
Tsinghua University, China

**1410-1425**  **ACCEPTANCE TESTING OF THE TASL NEUTRON DOSIMETRY SYSTEM**

Michael LITWIN
ARPANSA, Australia

**INFLUENCE OF AGE-RELATED BASELINE RISK ON RADIATION DOSE RESPONSE FOR CORONARY HEART DISEASE**

Shogo HORITA
Tokyo Healthcare University, Japan

**1410-1425**  **IRPA ACTIONS ON RADIATION SAFETY CULTURE**

Bernard LE GUEN
IRPA Executive Office, France
### 1430-1450
**1425-1440**
**SUMMARY OF 5 JOINT REGIONAL WORKSHOPS AND OUTLINE OF THE GUIDANCE DOCUMENT ON RSCHC**
Lawrence LAU  
WHO expert, Australia

**METHODOLOGY FOR EVALUATION OF LONG-TERM TREND IN ENVIRONMENTAL RADIOACTIVITY**
Seong A YIM  
Korea Institute of Nuclear Safety, Korea

**PROPER CALIBRATION FACTOR OF SMALL TYPE OSL DOSIMETER FOR EVALUATING EYE LENS DOSE OF OPERATORS DURING X-RAY FLUOROSCOPIC PROCEDURE**
Tohru OKAZAKI  
Naase-landauer, Japan

**RADIATION RISK COMPARISON WITH LIFESTYLE AND SOCIO ECONOMIC FACTORS**
Shin’ichi KUDO  
Institute of Radiation Epidemiology, Japan

### 1450-1510
**1440-1455**
**A PATIENT SAFETY CULTURE SURVEY PERFORMED IN A PUBLIC HOSPITAL IN SOUTH AUSTRALIA**
Stephanie NEWELS  
International Network of Patients for Patient Safety, Australia

**TRANSFER OF RADIONUCLIDES AND STABLE ELEMENTS TO INSECTS AND AMPHIBIANS IN A URANIUM MILL TAILINGS POND IN JAPAN**
Akihiro SAKODA  
Japan Atomic Energy Agency, Japan

**RADIATION SURVEY OF A DUAL-ENERGY MOBILE CONTAINER SCANNING SYSTEM**
Simon TOOMEY  
SGS Australia

**REGULATING LOW DOSES OF RADIATION WITHOUT HARMING PEOPLE**
Keith BALDRY  
Environment Protection Authority, Australia

### 1510-1530
**QUESTIONS & DISCUSSION**

**ANALYSIS FOR RADIOACTIVITY CONCENTRATION OF Pb-210 IN OUTDOOR-AIR**
Fei TUO  
National Institute for Radiological Protection, China

**HIGHLY SENSITIVE NOVEL SILICA-BASED MATERIALS FOR RADIATION DOSIMETRY**
Ruth SHAW  
University of Adelaide, Australia

**PILOT STUDY OF LEVEL 3 PSA FOR SEVERE REACTOR ACCIDENTS IN KOREA**
Tae Gwan DO  
Kyung Hee University

### 1530-1600
**Afternoon Refreshments, Trade Exhibition & Poster Display**
Barista coffee available, courtesy of [Tellus](https://www.tellus.com.au)

### 1600-1650
**SESSION 12**
Chair: Brad Cassels | Co-Chair: Cameron Jeffries

**CLOSING KEYNOTE SPEAKER**
Professor Charles Guest  
Chief Health Officer, Department of Health Victoria

Sponsored by [Ansto](https://www.ansto.gov.au)

### 1650-1700
**CONFERENCE CLOSING CEREMONY AND AWARDS**

**IRPA15 ANNOUNCEMENT**
Hee-Seock Lee  
KARP

### 1900-2230
**CONGRESS GALA DINNER**
MELBOURNE TOWN HALL  
90-130 SWANSTON ST, MELBOURNE VIC 3000
THURSDAY 24 MAY 2018

POST CONGRESS TECHNICAL TOURS

1030-1500  AUSTRALIAN SYNCHROTRON TOUR

The Australian Synchrotron is one of the southern hemisphere’s most significant scientific facilities. It is a world-class medical research facility that uses accelerator technology to produce a powerful source of light-x-rays and infrared radiation—a million times brighter than the sun. It supports a broad range of high quality research, with applications from medicine and nanotechnology to manufacturing and mineral exploration. This tour will provide background on the Synchrotron’s radiation protection procedures that ensures this facility delivers meaningful scientific outcomes for Australia in a safe manner.

$55.00 per person, includes tour activities, transport and lunch. Bookings essential.

1000-1230  THE VICTORIAN COMPREHENSIVE CANCER CENTRE (VCCC)

The Victorian Comprehensive Cancer Centre is a multi-site, multi-disciplinary specialist cancer hospital and research centre located in the heart of Melbourne.

$40.00 per person, includes tour activities, transport and refreshments. Bookings essential.