

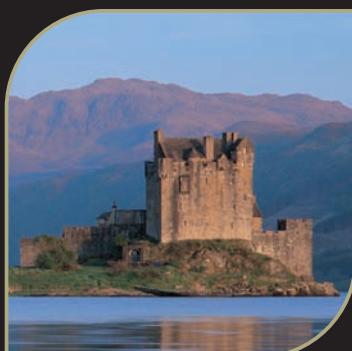
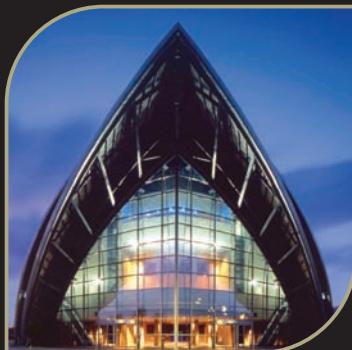
IRPA13 : Glasgow

13th International Congress
of the International Radiation
Protection Association

13 - 18 May 2012

for more information see

www.irpa13glasgow.com



13 - 18 May 2012 ■ SECC ■ Glasgow ■ Scotland

Hosted by:



Second Announcement & Call for Papers



Living with Radiation - Engaging with Society

This is a **must go to** event for all radiation protection professionals.

IRPA13 will include:

- A comprehensive scientific and technical programme covering all aspects of radiation protection
- An excellent opportunity for continuing professional development
- Extensive technical exhibition and technical visits programme
- A superb environment for networking
- An opportunity to visit Scotland and its many delights.

About IRPA

IRPA is the international voice of the radiation protection profession and promotes excellence in national and regional associate societies and radiation protection professionals by providing benchmarks of good practice and enhancing professional competence and networking.

The primary purpose of IRPA is to provide a medium whereby those engaged in radiation protection activities in all countries may communicate more readily with each other and through this process advance radiation protection in many parts of the world. This includes relevant aspects of such branches of knowledge as science, medicine, engineering, technology and law, to provide for the protection of man and his environment from the hazards caused by radiation, and thereby to facilitate the safe use of medical, scientific, and industrial radiological practices for the benefit of mankind.

International Supporting Organisations and Co-Sponsors



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13th International Congress of the
International Radiation Protection Association

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Glasgow Scotland® with style



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Welcome and Invitation from the President of IRPA



Dear Colleagues

The IRPA Executive Council (EC) is very excited about the plans for IRPA13 in Glasgow. We are working closely with the International Congress Organising Committee (ICO) and the International Congress Programme Committee (ICPC) to make IRPA13 a very stimulating and successful congress for radiation protection specialists.



Representing the EC, I attend all the ICO and ICPC planning meetings and I can assure you that the planning for the Congress and the social programme are in the excellent hands of the SRP and their local partners. The ICPC is competently chaired by Ted Lazo, who has a fine cadre of international experts in all disciplines of radiation protection to assist with the programme planning and execution.

This promises to be one of the finest IRPA congresses ever. The venue is excellent for our purposes and all participants will benefit from the scientific and technical presentations and discussions with colleagues from all over the world. I add my personal invitation to that of Roger Coates and his SRP colleagues and look forward to greeting you at IRPA13 in Glasgow in 2012.

Kenneth R. Kase
President



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Welcome and Invitation from the Congress President



Dear Colleagues

On behalf of the Society for Radiological Protection (SRP) and our UK Partner Societies involved in radiation protection issues in academia and medicine I am delighted to invite you to come to Scotland for the 13th International Congress of the International Radiation Protection Association (IRPA).

This International Congress is IRPA's flagship event, and follows on from the previous IRPA12 Buenos Aires Congress in 2008 and four very successful Regional Congresses held around the world in 2010.

We anticipate that IRPA13 Glasgow will be the world's largest ever gathering of radiation protection experience and expertise. Everyone has something both to learn and contribute, to make this Congress the most wonderful opportunity for professional development and advancement of the science and practice of radiation protection.

This is an exciting time in the world of radiation protection. So much is moving forward in the underpinning science. There is great progress in the medical uses of radiation, although with some concerns over the very significant increases in total exposure. The nuclear resurgence is poised to deliver low CO₂ energy, although not all stakeholders are comfortable with this. More and more uses are being found for radioactive sources, all of which however must be kept safe and secure. Exposure to natural radiation, especially radon and NORM, is a matter of constant attention.

All these issues will be covered in our scientific programme, put together by Ted Lazo and his International Congress Programme Committee (ICPC). The programme will balance the normal full scope of the science and practice of radiation protection with the specific aspects of our theme *Living with Radiation - Engaging with Society*. The special contributions related to this theme and the wider radiation protection topics will be addressed through the usual scientific sessions, but there will also be a greater emphasis on review and discussion within the formal proceedings so that we can move towards a Congress output which clearly identifies and represents the current state of our science and practice.

The Congress will be held in Glasgow's Scottish Exhibition and Conference Centre (SECC), a most iconic building but one which is immensely practical and with more than enough space to meet our needs perfectly. There will be an exciting programme of technical visits and an extensive exhibition of products, services and suppliers.

Glasgow is a tremendous city - so much so that the Lonely Planet guide has recently declared it to be one of the world's Top Ten 'Must See' cities. It is full of history, architecture, culture, warmth, wonderful parkland and the famous River Clyde. The magic of Scotland is at your doorstep, with mountains, glens and lochs beginning only 30 minutes from the Congress Centre. This is a great place to spend several days, with opportunities to extend your stay and further experience the wonders of Scotland. There will be a full social programme focussing on the delights of the city and giving a full flavour of Scottish culture. You and your Accompanying Persons will have the time of your lives!

Yet Glasgow remains one of Europe's best 'value for money' cities, with a wide range of reasonably priced accommodation and dining, and with good transport links. We will give a special welcome for delegates at the earliest stage of their career in radiation protection, and there will also be a bursary support programme for delegates from lesser developed countries.

Our website www.irpa13glasgow.com will be the basis of all interactions relating to the Congress, from general information to registration and the submission of abstracts and papers. Please put this as one of your 'favourites' and keep it under review as it constantly updates with more information over the period leading up to the Congress.

All in all this is clearly a "*Must Go To*" event for all of us engaged in radiation protection. I know that you will enjoy being in Glasgow for the Congress, and I look forward personally to welcoming you to this stimulating event in a great city.

Roger Coates

Roger Coates
Congress President
IRPA Vice President for Congress Affairs

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IRPA Executive Council 2008 - 2012

Kenneth Kase <i>USA</i>	President	Alfred Hefner <i>Austria</i>	Council Member
Renate Czarwinski <i>Germany</i>	Vice President	Gary Cramer <i>Canada</i>	Council Member
Roger Coates <i>UK</i>	Vice President, Congress Affairs	Jong Kyung Kim <i>Korea</i>	Council Member
Jacques Lochard <i>France</i>	Executive Officer	Bernard Le Guen <i>France</i>	Council Member
Richard Toohey <i>USA</i>	Treasurer	Sisko Salomaa <i>Finland</i>	Council Member
Richard Griffith <i>USA</i>	Publications Director		
Eduardo Gallego <i>Spain</i>	Council Member		

IRPA13 Congress Organisation

International Congress Organising Committee (ICO)

Roger Coates	Congress President
Robert Corbett	General Secretary and Technical Visits Coordinator
Cornelius Lewis	Treasurer
Rachel Smith	International Congress Programme Committee Secretary
Christopher Perks	Marketing and Publicity Coordinator
George Sallit	SRP and Partner Society Liaison
Colin Partington MBE	Exhibition and Sponsorship Coordinator
Geoffrey Webb	International Congress Support Committee
Sheila Liddle	Social Programme Coordinator

Invited Attendees:

Kenneth Kase	President IRPA
Ted Lazo	International Congress Programme Committee Chair

Co-opted Members:

Congrex (UK) Ltd	Professional Conference Organiser
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International Congress Programme Committee (ICPC)

Ted Lazo, <i>USA</i> , Chair	Rick Jones, <i>USA</i>	Yoshihiro Asano, <i>Japan</i>
Rachel Smith, <i>UK</i> , Scientific Secretary	Alfred Hefner, <i>Austria/IRPA</i>	Abrie Visagie, <i>South Africa</i>
Carl-Magnus Larsson, <i>Australia</i>	Alastair McKinlay, <i>UK</i>	Gert Liebenberg, <i>South Africa</i>
Caroline Schieber, <i>France</i>	Keith Faulkner, <i>UK</i>	Sung-Joon Ye, <i>Korea</i>
Ralph Andersen, <i>USA</i>	Marion Hill, <i>UK</i>	Peter Shaw, <i>UK</i>
Kim Kearfott, <i>USA</i>	Manuel Rodriguez, <i>Spain</i>	Rolf Michel, <i>Germany</i>
Astrid Liland, <i>Norway</i>	Peter Waggett, <i>Australia</i>	Hannes Stadtmann, <i>Austria</i>
Richard Wakeford, <i>UK</i>	Ivanka Rupova, <i>Bulgaria</i>	Zdenko Franic, <i>Croatia</i>
Ana Maria Bomben, <i>Argentina</i>	Philippe Bosquet, <i>France</i>	Celso Osimani, <i>Italy</i>
Patrick Smeesters, <i>Belgium</i>	Chan Kim, <i>S Korea</i>	Olivier Rakotomalata, <i>Madagascar</i>
Mohamed Gomaa, <i>Egypt</i>	Natalia Golnik, <i>Poland</i>	Constantin Milu, <i>Romania</i>
Kazuo Sakai, <i>Japan</i>	Mikhail Kiselev, <i>Russia</i>	Pedro Carboneras, <i>Spain</i>
Hairul Idris, <i>Malaysia</i>	Claire-Louise Chapple, <i>UK</i>	Tony Bandle, <i>UK</i>
Andrey Bushmanov, <i>Russia</i>	Paolo Vecchia, <i>ICNIRP</i>	John Rowat, <i>IAEA</i>
Anne Nisbet, <i>UK</i>	Hans Menzel, <i>ICRU</i>	Augustin Janssens, <i>EC</i>
Elizabeth Brackett, <i>USA</i>	Shengli Niu, <i>ILO</i>	Madan Rehani, <i>IOMP</i>
Claire Cousins, <i>ICRP</i>	Roselyne Ameon, <i>France</i>	
Maria Perez, <i>WHO</i>		
Pablo Jiménez, <i>PAHO</i>		

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International Congress Support Committee (ICSC)

Geoffrey Webb, *Chair*

Bernard Le Guen, *IRPA Executive Council*

John Rowat, *IAEA*

Pablo Jiménez, *PAHO*

Maria Perez, *WHO*

Hosts - Society for Radiological Protection (SRP)

SRP are very honoured to host the 13th International Congress of the International Radiation Protection Association in May 2012. SRP was founded in 1963 and is the UK Associate Society for the International Radiation Protection Association. With current membership of just over 2000, it is IRPA's second largest affiliate member. The Journal of Radiological Protection is the official scientific journal of the society, and is published on a quarterly basis.



The Congress is delighted to have the support of the following SRP partner societies:

- The Institute of Physics and Engineering in Medicine (IPEM)
- The Royal College of Radiologists (RCR)
- The British Institute of Radiology (BIR)
- The Society and College of Radiographers (SoCR)
- The British Nuclear Medicine Society (BNMS)
- The Association of University Radiation Protection Officers (AURPO)

International Supporting Organisations and Co-Sponsors

The Congress is delighted to have the support of the following International supporting organisations and co-sponsors:

- International Commission on Radiological Protection (ICRP)
- International Commission on Radiation Units and Measurement (ICRU)
- OECD Nuclear Energy Agency (NEA)
- European Commission (EC)
- World Health Organisation (WHO)
- Pan American Health Organisation (PAHO)
- International Labour Organisation (ILO)
- International Organisation of Medical Physics (IOMP)
- International Commission on Non-Ionizing Radiation Protection (ICNIRP)
- International Atomic Energy Agency (IAEA)
- United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR)
- United Nations Environment Programme (UNEP)

UK Governmental Supporters

- First Minister for Scotland
- Lord Provost of Glasgow
- Health and Safety Executive (HSE)
- Nuclear Decommissioning Authority (NDA)
- Scottish Environmental Protection Agency (SEPA)
- Department of Energy and Climate Change (formerly DEFRA)
- Department for Transport (DfT)
- Ministry of Defence (MOD)
- Health Protection Agency (HPA)
- The Environment Agency (EA)

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Congress Theme

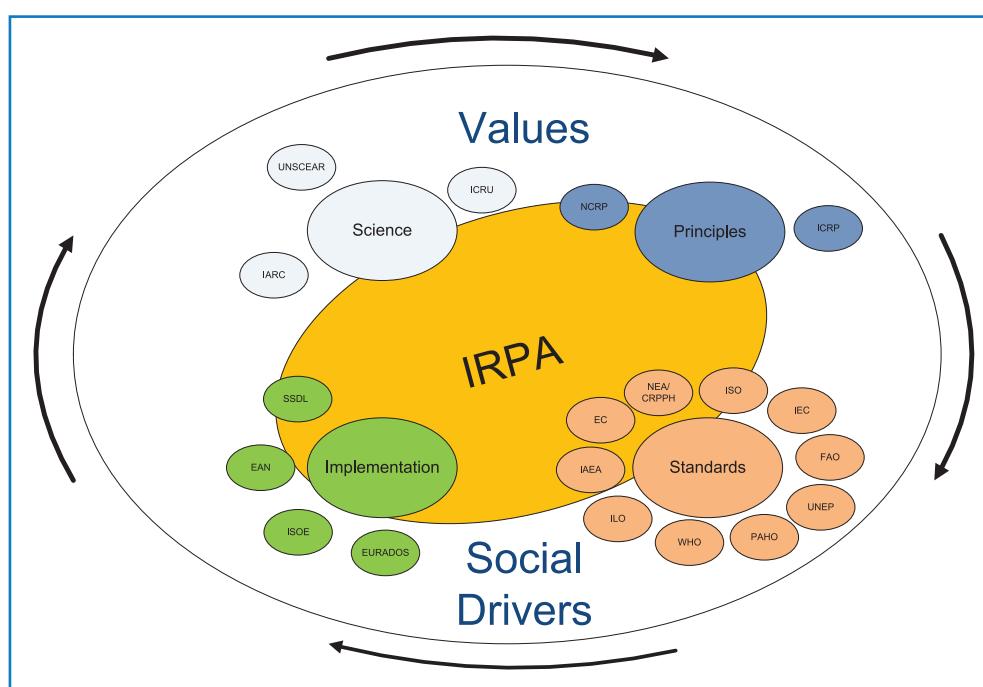
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The theme that has been selected for the IRPA13 Congress is both interesting and challenging. It reminds us that while exposure to radiation may be either voluntary or involuntary, the management of protection will always involve social decisions and choices. To make such decisions and choices requires knowledge and wisdom, and the objective of this Congress is to increase both of these in order to help members of the radiation protection profession better address their responsibilities.

Public perception and understanding of radiation risks are often at distinct variance from the views of scientific experts. It is increasingly apparent that for many ventures involving radiation it can be impossible to move forward successfully without a structured and meaningful engagement with stakeholders, especially local communities. The Congress will therefore provide opportunities for radiation protection professionals to share experiences amongst ourselves, but also to experience and interchange views with those outside our profession - i.e. those who are often called our stakeholders.

Programme Overview

Decisions and choices in radiation protection are made in the context of an ever-evolving system of radiological protection. Broadly, this system involves the development of scientific understanding of the physical and biological characteristics of radiation and its interactions with matter, the development of broad principles to frame and guide decisions and choices, the development of clear standards and regulations to manage radiation exposures, and the development of procedures and practices to most effectively implement radiation protection under a wide variety of circumstances. This system is somewhat cyclic in nature, with all of these steps being interrelated and influencing each other. As importantly, these steps all strongly interact with and within an evolving environment of social values and drivers that condition the types of radiation protection decisions and choices that are made. Recognising this, incompletely represented in this diagram, the IRPA13 Congress has been structured to clarify state-of-the-art knowledge, current direction and emerging challenges in all of these areas and in all aspects of radiation protection.



The programme will provide a varied array of styles of interaction, from the classical plenary sessions, the topic sessions based on submitted papers through to more interactive and discursive sessions aimed at identifying the principal outputs of the Congress - i.e. the key current issues, lessons learned and current best practices. Authors are invited to take account of this structure when drafting their contributions. These considerations will be distilled into a Congress output which after the Congress will be posted on the IRPA13 website for consultation prior to publication in the scientific literature.

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The value of this overall impression will NOT be as a programme of work, or as a list of definitive elements that should be addressed. Rather, the resulting list of impressions and views will be a valuable contribution from IRPA to the ongoing “care and feeding” of the system of radiological protection by national and international organisations, regulatory authorities, professional RP and other organisations to assist in their work and prioritisation of their activities.

The programme will therefore give participants the opportunity to produce a “snapshot” of radiation protection as we will see it in May 2012. Contributions from the principal international organisations involved in radiation protection will be integrated into the relevant programme sessions.

Leading up to the Congress the latest programme developments will be updated periodically on the website to allow delegates to understand the layout and flow of the topics.

The programme will comprise the following session types:

Plenary Sessions

These sessions by the world’s leading scientists and practitioners in their fields will present overviews of the current state of key topics in radiation protection. They will include the prestigious Sievert Lecture, reviews of the current state of the science underpinning both ionising and non-ionising radiation protection, the current status of the international system of protection and a session focussed around the Congress theme of *Living with Radiation - Engaging with Society*. The final plenary session will outline IRPA’s activities and role and will identify the principal conclusions and outcomes from the Congress.

Key Issue Discussion Sessions

Through feedback from other sessions and the previous 2010 IRPA Regional Congresses, together with presentations and discussions, these sessions will aim to identify the key issues and good practice in several important areas, including:

- underpinning science
- the system of protection (including implementation of ICRP103)
- increasing medical exposures
- nuclear issues (including new build)
- stakeholder engagement (including implementation of the IRPA Guiding Principles for Stakeholder Engagement)

Topic Sessions

Around 35 sessions will present the submitted papers in oral and poster contributions, including selected keynote papers, reflecting the Areas and Topics listed later. Poster contributions will be highlighted with the aid of virtual poster tours to complement the traditional poster viewing arrangements.

Symposia

Invited speakers will present and review selected topics of interest in symposia typically lasting 90 - 120 minutes each. Panel discussions will have opportunities for input from delegates. Topics may include:

- Radiation protection and societal aspects of radioactive waste management
- Internal dosimetry
- Legal aspects of radiation protection
- Waste disposal experiences
- Affected peoples experiences
- Dosimetry and measurement
- Justification of medical exposures
- Nuclear fuel cycle
- Transport
- Biota and ecosystems
- Security of sources
- Radon

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- Radiation protection culture
- Teaching radiation protection in schools
- Room design in radiotherapy
- Dose calculation software for medical use

Fora

These are organised by, or in association with, other national and international organisations, and will allow delegates to understand and contribute to the subjects addressed. It is envisaged that a few topics will be selected for cooperative working in this way, including:

- Role of qualified experts in medical exposure (IOMP/WHO/PAHO/IAEA)
- Medical exposure (WHO/PAHO/IAEA)
- Occupational exposure (IAEA/ILO/NEA/IRPA)
- Ethics and values in radiation protection (ICRP/NEA)
- Nuclear industry (WNA)
- Internal dosimetry (HPA)

Sponsored Commercial Presentations

These presentations give opportunities for delegates to be made aware of the products, services and capabilities of commercial companies and organisations.

The advertisement features a collage of three images: a landscape view of a nuclear facility, a close-up of industrial pipes, and a person in a white lab coat working in a laboratory. The Nuvia logo, consisting of a red and blue stylized circle followed by the word "NUVIA" in blue, is centered over the images.

Radiation Protection Services

Nuvia is recognised internationally as a world class provider of radiation safety and radioactive waste management services

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Areas and Topics for Paper Submissions

The proposed Areas and Topics for the submission of abstracts and papers, against which the above sessions will be arranged, are listed below. This broadly follows the ICRP structure of Planned, Existing and Emergency Exposure Situations. Exposure of workers, the public and patients will all be included under the relevant topic heading. Given the Congress theme of *Living with Radiation - Engaging with Society*, contributions from wider stakeholders and society are strongly encouraged. In grouping these contributions for presentation at the Congress, specific experiences relating to a given topic area may be presented in that topic session, with generic issues relating to society and stakeholder engagement being focused in Area 4.

List of Areas and Topics

1. Biological and Health Effects of Ionising Radiation

- 1.1 Radiation Biology
- 1.2 Epidemiology
- 1.3 Human Health Effects and Risk Factors

2. Measurements and Dosimetry

- 2.1 External Exposure Assessment
- 2.2 Internal Exposure Assessment
- 2.3 Biological Dosimetry and Modelling
- 2.4 Instrumentation and Measurement
- 2.5 Metrology and Dosimetry Standards
- 2.6 Numerical/Computational Dosimetry

3. Radiation Protection System Development and Implementation

- 3.1 Evolution and Implementation of the System of Radiological Protection
- 3.2 Regulations and Standards
- 3.3 Management Roles, Responsibilities and Systems
- 3.4 Education, Training and Resources
- 3.5 Radiation Protection Culture
- 3.6 Ethical Aspects
- 3.7 Legal Aspects

4. Stakeholder Engagement and Involvement

- 4.1 Experience in Stakeholder Engagement and Decision Making
- 4.2 Processes, Methodologies and Tools in Stakeholder Engagement
- 4.3 Risk Communication, Developing Understanding and Dialogue
- 4.4 Experience with Affected Populations

5. Non-Ionising Radiation

- 5.1 Static, Power Frequency and Intermediate Electrical and Magnetic Fields
- 5.2 Radio-frequency Radiation
- 5.3 Optical Radiations, UV Radiation, Lasers, Ultrasound and Infrasound
- 5.4 Telecommunications and Emerging EMF Technologies
- 5.5 Biological Effects
- 5.6 Epidemiology
- 5.7 Health Risk Assessment
- 5.8 Measurement and Dosimetry
- 5.9 System of Protection
- 5.10 Public, Occupational and Medical Exposure.

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6. Planned Exposure Situations: Industry and Research

- 6.1 Nuclear Fuel Cycle
- 6.2 New Nuclear Build
- 6.3 Management and Security of Sources
- 6.4 Naturally Occuring Radioactive Material (NORM) in Mining and Industry
- 6.5 Accelerators and Fusion
- 6.6 Non-nuclear Industry and Research
- 6.7 Security Screening
- 6.8 Transport of Radioactive Materials
- 6.9 Decommissioning

7. Planned Exposure Situations: Medicine

- 7.1 Justification in Medical use of Radiation
- 7.2 Ethics and Patient Engagement
- 7.3 Paediatric Considerations
- 7.4 Diagnostic Radiology and Interventional Procedures
- 7.5 Nuclear Medicine
- 7.6 Radiotherapy
- 7.7 New Techniques in Medicine
- 7.8 Radiation Incidents
- 7.9 Quality Assurance and Audit

8. Planned Exposure Situations: Radioactive Waste Management

- 8.1 Waste Management Policy, Strategy and Standards
- 8.2 Exemption and Clearance
- 8.3 Pre-disposal Waste Management
- 8.4 Operational Discharges: Public Exposure Assessment including Modelling and Surveillance
- 8.5 Waste Storage Facilities and Safety Assessments
- 8.6 Waste Disposal Facilities and Safety Assessments

9. Emergency Exposure Situations

- 9.1 Emergency Preparedness and Response
- 9.2 Optimisation and Dose Constraints
- 9.3 Short and Long-term Post-accident Consequence Management
- 9.4 Management of Exposed Persons
- 9.5 Past Incidents and Accidents and Lessons Learned
- 9.6 Malevolent Acts and New Threats

10. Existing Exposure Situations

- 10.1 Air Travel and Space Flight
- 10.2 Radon
- 10.3 Other Natural Sources of Radiation Exposure
- 10.4 Living in and Rehabilitation of Contaminated Land and Territories
- 10.5 Legacy Management and Remediation

11. Protection of the Environment

- 11.1 Protection Policy and Standards
- 11.2 Biological Effects on Biota and Ecosystems
- 11.3 Environmental Measurements and Dosimetry
- 11.4 Biota and Ecosystem Exposure Assessment
- 11.5 Environmental Protection Programmes



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Refresher Courses

The Refresher Course programme provides delegates with the opportunity to update their knowledge in specific areas of radiation protection science and practice. There are two types of course:

- Courses aimed at providing a broad overview of the current state of a given topic, thereby giving delegates not working directly in that field a sound understanding of the current status.
- Courses aimed at giving experienced practitioners a more detailed understanding of up-to-date developments in a field.

Courses will be held each morning before the start of the Congress. A total of 25 courses will be available, five each day. The courses will be submitted to the American Academy of Health Physics for accreditation for Continuing Education Credits, and course details will be available to support accreditation by any other Associate Society for relevant Continuing Professional Development (or equivalent) schemes. The fee for the refresher courses will be £30.00 per person per course.

The latest course details are specified on the Congress website and the list below presents outline information on the course schedule.

Monday 14 May

- RC1: Biological effects (including non-cancer effects)
- RC2: External dosimetry (*detailed subject area to be confirmed*)
- RC3: Radiation detriment: evolution of its estimation and its role in the RP system
- RC4: Optical radiation safety
- RC5: Design of medical facilities

Tuesday 15 May

- RC6: Conducting effective stakeholder involvement
- RC7: Internal dosimetry (*detailed subject area to be confirmed*)
- RC8: Training workers in RP for a safer work environment
- RC9: EMF measurements for health and risk assessment
- RC10: Protection issues for novel radionuclide therapies

Wednesday 16 May

- RC11: Supporting stakeholder needs for information and facts
- RC12: Radiation protection in NORM industries
- RC13: Safety and security in the transport of radioactive materials
- RC14: Considerations in estimating public doses from nuclear facilities
- RC15: Radiation protection and pregnancy in the medical environment

Thursday 17 May

- RC16: Using new technologies in support of stakeholder involvement
- RC17: Optimisation of RP for the decommissioning of facilities
- RC18: Post Closure Safety Assessment of near-surface disposal facilities
- RC19: Emergency management according to new IAEA BASIC SAFETY STANDARDS (BSS)
- RC20: Radiation protection in interventional procedures

Friday 18 May

- RC21: Post Closure Safety Assessment of deep geological disposal facilities
- RC22: Use of the INES scale to communicate the importance of nuclear or radiological events
- RC23: Optimisation of radiation protection for radon exposure in homes
- RC24: Protection of the environment (*detailed subject area to be confirmed*)
- RC25: Radiation protection & dosimetry in paediatric CT

For more details, including the style of course and updates please refer to the website www.irpa13glasgow.com.

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Rolf M Sievert Award

IRPA13 scientific programme will be opened by the Sievert Lecture, presented by the winner of the 2012 Sievert award to be selected by the IRPA Executive. This award is granted in honour of Rolf M Sievert, a pioneer in radiation physics and radiation protection.

Previous recipients of the Sievert award are: Professor Bo Lindell, Prof. W.V. Mayneord, Dr. Lauriston. S. Taylor, Sir Edward Pochin, Prof. Dr. Wolfgang Jacobi, Dr. Giovanni Silini, Dr. Daniel Beninson, Prof. Dr. Itsuzo Shigematsu, Dr. Abel J. Gonzalez and Prof. Christian Streffer

The Gold Medal for Radiation Protection of the Royal Swedish Academy of Sciences

This medal was established in 1962 to be awarded to persons who have made a highly valuable contribution to international radiation protection progress during the preceding ten years. Recipients are nominated by the International Commission on Radiological Protection (ICRP) and chosen by the Academy. Previous recipients include: W Binks, K Z Morgan, W V Maynard, L S Taylor, E E Pochin, S Takahashi, B Lindell, I Shigematsu, A Guskova, R Doll and K. Sankaranarayanan.

IRPA Young Professionals Involvement and Prize

The Congress issues a special invitation and encouragement to younger scientists and professionals to attend as delegates. Whilst there is no formal definition of 'young' in this context, it is intended to apply to students and persons in the first ten years of their career in radiation protection, and as such they will only exceed the mid-30s age in exceptional circumstances.

The Congress will offer a prize for the best presentation by a Young Professional or Scientist. To be eligible for entry, the candidate must be selected and nominated by his/her relevant IRPA Associate Society. Societies are encouraged to set up selection processes to support this award, and then ideally to support financially their selected candidate for attendance at the Congress. The selected candidate from each Society will be guaranteed an oral presentation of their paper at the Congress.

The Congress will encourage networking amongst young persons by holding a specific reception for them, allowing them also to meet some of the senior figures in the profession. Eligible persons are requested to tick the relevant box on the registration form.

Satellite Meeting

7th ICNIRP International NIR Workshop, Edinburgh, 9 - 11 May 2012

The International Commission on Non-Ionizing Radiation Protection (ICNIRP) will be holding its 7th International NIR Workshop in Edinburgh in the week prior to the IRPA13 Congress. Edinburgh is but a short train journey from Glasgow and the close proximity of these two major events, in both time and location, provides an excellent opportunity for all those with an interest in NIR to catch-up with all the latest advances in research and protection in the area.

<http://www.icnirp.org/>

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Submission of Abstracts

Submission of abstracts, full papers and posters must be in English and will take place electronically via the IRPA13 website www.irpa13glasgow.com. You will be asked to indicate the Scientific Area/Topic for your presentation. Further instructions and forms for the presentation of abstracts, full papers and posters are available on the website.

Abstracts must be submitted by 16 September 2011

This abstract submission deadline is final and will not be changed.

The corresponding author of the paper will be notified of acceptance or rejection and the session to which their paper has been assigned by 30 November 2011. Accepted abstracts will be allocated as oral or poster presentation. Oral presenters must submit a paper by 12 March 2012. Poster presenters must submit a PDF of their poster by 12 March 2012: they may also submit a paper, but this is optional. The requirement for the poster PDF is to support the digital aspects of the Congress as outlined below, and as such this is mandatory, not optional. Poster printing from the submitted PDF for collection at the Congress will be available for an additional fee.

For abstracts and papers to be included in the Congress programme the presenting author must have registered as a delegate by 12 March 2012.

The final programme will be available on the Congress website. The pre-Congress material will include the programme and book of abstracts, all of which will be available electronically on the IRPA13 website. The full papers (including poster papers) and poster PDFs will also be uploaded to the IRPA13 Congress website and in due course will be published on the IRPA website.

Key Dates Summary

- Abstracts **must** be submitted by 16 September 2011
- Authors will be notified of acceptance by 30 November 2011
- Full papers and poster PDFs **must** be submitted by 12 March 2012
- Presenting author registration by 12 March 2012

Electronic and Digital Aspects

The Congress will make use of best current electronic and digital technologies, and hence delegates are advised to bring laptops and/or relevant electronic devices with them in order to obtain the best advantage from the Congress. The programme, abstracts, submitted papers and poster PDFs will all be available for a short period in advance of the Congress and will be WiFi-accessible throughout the Congress. This will permit delegates to optimise their personal programme tailored to their interests.

All PowerPoint presentations will be filed on the website shortly after delivery, together with audiovisual input where available. Refresher Course downloads will only be available to non-attendees on payment of an additional fee.

There will be a limited programme of live webcasts of selected presentations for use by Associate Societies and relevant organisations around the world. These may involve the payment of a fee. The latest information will be kept posted on the Congress website, but organisations interested in receiving live feed are invited to contact the organisers to express their interest.

Modern communication methods, involving approaches such as blogs and tweets, will be used during the principal discussion sessions in order to help identify the key issues and questions. It is intended that these will be visible to all via the website.

All the Congress programme content and output will be migrated to the IRPA website approximately six months after the Congress and will be freely available at that time.

Call for Papers

Glasgow Scotland with style

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IRPA13 Technical Visits

We are pleased to offer a number of Technical Visits for your interest. Places at these are limited and are offered on a first come basis. The local visits will take place on the **afternoon of Wednesday 16th May**. Most of the visits are within 90 minutes of the conference centre, but two (Sellafield and the UK Low Level Waste Repository) are at a considerable distance, and are offered either as a one day visit or in conjunction with a pre conference tour of the English Lake District. There are security issues at three of the visits, with passports and advance security clearance being required. For further information and booking go to the IRPA13 website.

Hunterston A Power Station (Decommissioning)

Hunterston A, a twin Magnox reactor site situated on the beautiful North Ayrshire coast and owned by NDA, is half way through its decommissioning programme.

This was Scotland's first civil nuclear generating station, it operated between 1964 and 1990 and was fully defuelled by 1995.

The primary goal at Hunterston A is to complete the complex decommissioning programme in line with Government policy and NDA strategy in a way that protects people and the environment. The site is managed by Magnox North, a Company owned by Energy Solutions keen to assist the NDA to discharge its primary obligations and providing value for money solutions.



The Hunterston A site prides itself in having a highly skilled, knowledgeable workforce who are committed to completing the work safely and minimising the environmental impact of all decommissioning operations.

On visiting Hunterston A, you can expect to learn about a range of decommissioning projects including retrieval and processing of wastes. A tour of the intermediate level waste store will highlight a robustly constructed facility and the graphite pathfinder project (GPP) team are available to discuss this emerging and exciting feasibility study. This location is approximately 90 minutes from the Conference Centre.

Transport Fee Per Person: £22.00

Hunterston B (AGR) Power Station



The visit to Hunterston B Power Station operated by British Energy (an EDF Company) will provide the delegate with an overview of the main radiological protection issues associated with the operation of Advanced Gas-cooled reactors (AGRs). The visit will include a formal presentation and a chance for open discussion with Station Radiological Protection practitioners, and a visit to the plant to witness at first hand, radiological controls and practices in operation.

Transport Fee Per Person: £22.00

Centre for Radiation, Chemical and Environmental Hazards (CRCE), Health Protection Agency (Glasgow)

The Health Protection Agency (HPA) is dedicated to protecting people's health in the United Kingdom. Combining public health, scientific expertise and research within one organisation, the Agency protects against threats to health from infections, environmental hazards and emergencies which can include chemical, biological, radiological and nuclear threats.

Visitors will be able to discuss the radiation protection services provided by the six professional Radiation Protection Advisers (RPAs) who carry out advisory work, occupational level safety training, statutory testing of radiation sources and monitoring instruments, and surveys of work with ionising and non-ionising radiation. Their experience covers use of radiation in light and heavy engineering, security, the petrochemical industry (onshore and offshore), universities, and other work places such as vets and dentists. Solar ultraviolet monitoring stations are also maintained across Scotland. Tours will be provided of the Department's state of the art facilities for testing radiation measuring instruments. Health physics equipment that supports routine and emergency response work will be demonstrated.

Tours will be provided of the radiometric and analytical chemistry laboratories and the Department's Emergency Operations Centre. Senior staff will discuss their experience from genuine emergency and exercise scenarios.

Transport Fee Per Person: £7.00



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HM Naval Base, Clyde

HM Naval Base Clyde, at Faslane, is some 25 miles north west of Glasgow and is home to the United Kingdom's strategic nuclear deterrent and the headquarters of the Royal Navy in Scotland. The Naval Base primarily comprises of the Naval Base at Faslane itself and the Royal Naval Armaments Depot (RNAD) at nearby Coulport. HM Naval Base Clyde's key role is to support the Royal Navy in maintaining Continuous At Sea Deterrence. This is achieved by ensuring that at least one Vanguard Class SSBN submarine is on patrol at sea every day of every year. The visit to the Base will include a guided tour of the nuclear accident response facilities, solid waste handling facilities, liquid processing facilities, the submarine berths themselves and the Shiplift. All delegates to Faslane will require to be security screened in advance.



Transport Fee Per Person: £22.00

GSE Systems Power Station Simulation Training Centre at University of Strathclyde (Glasgow)

The home to the only academic, fully flexible GSE Power Station simulator suite designed for training in Europe. This \$4 million simulation training and education centre offers a unique facility that provides the basis for research and education in the areas of real-time simulation, power station control and advanced diagnostics. The simulator replicates actual control rooms with instrumentation and controls driven by computer models that replicate a plant's actual response to normal operating conditions.

Transport Fee Per Person: £5.00

The ALPHA-X laboratory, University of Strathclyde (Glasgow)

This laboratory is furnished with a pair of femtosecond lasers and "target areas" situated in a suite of well equipped, shielded laboratories. This equipment is used to investigate the interaction of intense electromagnetic fields with matter. The main activity of the ALPHA-X project is to develop laser-plasma accelerators and utilise these as drivers of compact radiation sources. One of the lasers is the highest power short-pulse laser system in any UK university laboratory (pulse energy of 1 J, wavelength 800 nm and pulse duration 35 fs) that can deliver 30TW of peak power to the experiments, which makes possible studies at field intensities in excess of 10^{19} Wcm^{-2} . The visit to the laboratory will entail a tour of the laser facilities and the ALPHA-X beam line area. Laser-plasma accelerators are extremely compact and the entire beam line area covers only an area of 10 m x 3.5 m. With a bit of luck, the accelerator will be operational during the visit so visitors may witness first hand the generation of 100 - 200 MeV electron beams and associated bright X-ray pulses!



Transport Fee Per Person: £5.00

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Pre-Congress Technical Visits and Tour

Delegates will be able to attend the Sellafield Nuclear Site or the UK Low Level Waste Repository, Drigg as part of the Technical Visits programme. These visits will take place prior to the congress on Friday 11 May 2012 and can either be attended as a one day visit or as part of a sightseeing tour. All visits will depart from the SECC. Please note all options are detailed below and can be booked via the registration system.

Sellafield Nuclear Site (One Day Visit)



Sellafield has been home to nuclear operations since the early 1950's, primarily focused on nuclear generation, storage and chemical separation of nuclear fuel. Today the highest priority for the site is accelerating high-hazard and risk reduction of the legacy facilities on the largest and most complex nuclear cleanup site in the world, with 170 major nuclear facilities and 2200 other buildings housing activities that cover the entire nuclear fuel cycle. It is home to some of the most innovative and complex nuclear decommissioning projects in the world. The tour will give an opportunity to see the contrast between the oldest and newest of the operating plants on

the site and will also include a coach tour to view the major construction projects.

Transport Fee Per Person: £55.00

UK Low Level Waste Repository, Drigg (One Day Visit)



This visit will allow the participants to view the development of LLW management in the UK since the start of the nuclear programme in the UK. Key aspects are the learning gained through operation and the development of regulation within the nuclear industry and the impact of regulations from other industries both within the UK and across Europe. Through the development of the facility over 50+ years it has been optimised through both necessity and regulation.

More recent changes have been developed in collaboration with both local and national stakeholders which has had a dramatic impact on the facility now proposed and the way in which it is managed. Despite the limited and minimal radiological risk from a technical perspective it is nevertheless NUCLEAR waste and is therefore very much in the public eye. As well as touring the operational site, the visit will focus on the development of both the UK national policy for LLW management and the Post Closure Safety Case for the repository.

Transport Fee Per Person: £55.00

Sellafield Nuclear Site or the UK Low Level Waste Repository, Drigg and the English Lake District

This three day tour will combine the technical visits to Sellafield Nuclear Site or the UK Low Level Waste Repository, Drigg with sight seeing in the Lake District, together with a full Accompanying Persons Programme.

Tour Programme

Day One - Thursday 10 May 2012

Delegates and Accompanying Persons will depart Glasgow by coach at either 16.00 hours or 18.00 hours and transfer direct to the Lake District. There will also be the option to join the tour at Penrith Railway Station and transfer to hotels. Dinner and overnight accommodation in the Penrith area.

Day Two - Friday 11 May 2012

All delegates will depart from hotels and transfer to the Sellafield Nuclear Site or the UK Low Level Waste Repository, Drigg to arrive by 09.45 hours for a 10.00 hours start. Delegates will then be collected at approximately 16.00 hours and returned to hotels.

All accompanying persons will depart from hotels to commence a sightseeing tour of the ancient Cathedral City of Durham - land of the Prince Bishops - with its magnificent Cathedral which has been described as 'one of the great architectural experiences of Europe'. It is renowned as a masterpiece of Romanesque (or Norman) architecture. It was begun in 1093 and largely completed within 40 years. Our journey to or from Durham will take us via Hadrian's Wall. Dinner and overnight accommodation in the Penrith area.

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Day Three - Saturday 12 May 2012

All participants will check out and depart from hotels to commence a sightseeing tour of the Lake District to include Ullswater, Kirkstone Pass, Ambleside and Bowness on Windermere. All participants will then depart the Lake District at approximately 15.00 hours to travel to Glasgow, dropping off at Congress Hotels.

Fee Per Person:	Sharing £450.00 per person
	Single £550.00 per person

Prices are based on a minimum of 20 paying passengers and are subject to availability.

Price includes:

- 2 nights accommodation in rooms with private facilities
- Full English breakfast
- Table d'hote dinner
- Services of a qualified guide for sightseeing
- Transportation throughout by luxury touring coach
- Services of experienced driver
- Porterage based on one suitcase per person
- Service charges at hotels and all Government taxes

Price does not include:

- Items of a personal nature such as newspapers, room service, telephone calls etc
- Drinks/meals other than those specifically mentioned in the itinerary
- Gratuity to driver/guide



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Exhibition and Sponsorship

There are various different support opportunities available for those companies/organisations wishing to exhibit or sponsor IRPA13. To request your copy of our Exhibition and Sponsorship Prospectus, please visit our website or contact our Exhibition and Sponsorship Manager, Jillian Hart on sales@irpa13glasgow.com.

At this very early stage the International Congress Organising Committee (ICOC) are delighted to announce that the following commitments from our Exhibitors and Sponsors have already been received. This is a great start to the IRPA13 Congress organisation.

Sponsors and exhibitors already confirmed as of January 2011 are detailed below:

Currently Confirmed Congress Sponsors

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Congress Sponsors



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Currently Confirmed Exhibitors

- Automess GmbH
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- Georadis S.R.O.
- Health Protection Agency
- LANDAUER EUROPE
- Ludlum Measurements, Inc

- Mirion Technologies
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Social and Accompanying Person's Programme

There will be an exciting social and tours programme for delegates and accompanying persons attending IRPA13. As the congress is to be held in Scotland the programme will have a Scottish theme. As well as the usual events such as a Welcome Reception and a Gala Dinner we promise that you will be spoilt for choice when it comes to additional tours and events. There are also a number of longer trips that can be arranged should you wish to extend your stay and see some of the beautiful Scottish highlands.

Date	Social Event	Location	Price
Sunday 13 May	Welcome Reception	Glasgow Science Centre	Included in Registration Fee
Monday 14 May	Opening Ceremony and Sievert Lecture	The Clyde Auditorium, SECC	Included in Registration Fee
Monday 14 May	Young Professionals Reception	SECC	Invitation only
Tuesday 15 May	Scottish Evening	Oran Mor	£40.00 per person
Thursday 17 May	Gala Dinner	The Thistle Hotel	£40.00 per person
Friday 18 May	Farewell "Wee Dram"	SECC	Included in Registration Fee

Welcome Reception

Sunday 13 May 2012

The Welcome Reception will be held in the early evening at the Glasgow Science Centre which is situated across the river footbridge from the SECC. The evening will allow delegates to relax and socialise, renewing old friendships and making new ones prior to the Congress week commencing.

Opening Ceremony and Sievert Lecture

Monday 14 May 2012

The Opening Ceremony will take place at the Scottish Exhibition & Conference Centre in the Clyde Auditorium. It will be followed by the Sievert Lecture: for more information please see page 14.

Young Professionals Reception

Monday 14 May 2012

The Young Professionals Reception will take place within the SECC at the end of the Scientific Programme. For more information please refer to page 14.

Scottish Evening

Tuesday 15 May 2012

Delegates and Accompanying Persons will have the option to book a place on the Scottish Evening which will take place on the Tuesday evening. This will be an informal evening at Oran Mor where delegates will have the opportunity to socialise and learn some traditional Scottish dances. Drinks and a light buffet will be served.

Gala Dinner

Thursday 17 May 2012

The IRPA13 Gala Dinner will be hosted in true Celtic style at the Thistle Hotel, in the heart of the City. On arrival delegates will be received with a welcome drink prior to being seated and served with a Scottish themed menu. A paying bar will be available after the meal, providing delegates with ample opportunity to socialise and make new acquaintances. Entertainment with a Scottish flavour will be provided during the evening.

Please note tickets are limited, so book your place early to avoid disappointment.

Farewell Wee Dram

Delegates and Accompanying Persons will be invited to participate in a Wee Dram of Whisky to celebrate the end of the Congress. This will take place immediately after the Closing Ceremony in the SECC.

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Accompanying Persons Programme

An exciting Accompanying Persons (AP's) programme will include the following:

- Attendance at the Welcome Reception
- AP meeting area in the SECC throughout the Congress week (Monday to Friday)
- Coffee and tea (Monday to Friday)
- AP Welcome Meeting on the morning of Monday 14 May
- "Hop on Hop off" City Bus ticket
- ½ Day Sightseeing Tour
- Glasgow Delegate Travel Pass

Additional activities will be arranged locally in discussion with AP's. Accompanying Persons will also be able to book the Scottish Evening, Gala Dinner and any additional sightseeing tours at an additional cost.

Sightseeing Tours

Delegates and accompanying persons may purchase tickets for the Tours at the time of registration. Please note that registration for optional tours and events will be confirmed upon payment on a first come-first served basis. A minimum and maximum number of delegates booked onto tours may be necessary. Delegates and accompanying persons will be able to book tours on site at the conference, if there is still availability.

For more information about the tours that are offered, please check the website www.irpa13glasgow.com.

Half Day Tours

Charles Rennie Mackintosh Trail

Date: Tuesday 15 May
Time: 13.30 - 17.00 hours
Price Per Person: £40.00 (included in AP's fee)

An introduction to the life and works of Glasgow's most famous architect Charles Rennie Mackintosh. We will focus on the exteriors of some of his best known works including Queen's Cross Church (the only church he designed and now the home of the CRM Society), the Glasgow School of Art and Scotland Street School. We will also have an interior visit to The Glasgow Style gallery at Kelvingrove Art Gallery & Museum with its displays of furniture, decorative objects and paintings which set Mackintosh's work in the context of Glasgow at the turn of the century.

Price includes:

- Travel by luxury touring coach
- Services of qualified Blue Badge Scottish Tourist Guides
- All admission and visits underlined as well as all relevant taxes



Glasgow City Tour

Date: Monday 14 May
Time: 14.00 - 17.00 hours
Price Per Person: £40.00

This introduction to Glasgow will cover a panoramic tour of the City Centre, including the River Clyde, the historic Cathedral and Merchant City, the Georgian grandeur of Blythswood Square, Kelvingrove Art Gallery and the University Campus. We drive through the Clyde Tunnel to visit the Burrell Art Collection in Pollok Country Park with the chance to see the largest herd of Highland Cattle in Britain.

Price includes:

- Interior visit to Burrell Art Collection
- Travel by luxury touring coach
- Services of Blue Badge Scottish Tourist Guide
- Service charges and VAT





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Glengoyne Distillery & Loch Lomond

Date: Tuesday 15 May
Time: 09.30 - 12.30 hours
Price Per Person: £45.00

Travelling from Glasgow we drive to the foot of the Campsie Fells and visit Glengoyne Distillery, where we will see how Scotland's national drink is produced. For those who wish there is even a taste of the end product! At Balloch we'll make a stop to enjoy the panoramic views from Loch Lomond Shores in the Loch Lomond National Park before returning to Glasgow.



Price includes:

- Guided tour of Glengoyne Malt Whisky Distillery with tasting
- Travel by luxury touring coach
- Services of Blue Badge Scottish Tourist Guide
- Service charges and VAT

Loch Lomond (Including sail on the Loch)

Date: Wednesday 16 May
Time: 14.00 - 17.00 hours
Price Per Person: £45.00

From Glasgow we travel along the banks of the river Clyde to Helensburgh and then by way of scenic Glen Fruin to Loch Lomond and on to Tarbet. Here we will board a cruiser for a sail on the Loch, in the shadow of Ben Lomond. Our final drive takes us along the banks of the Loch, with magnificent views to the islands, on our homeward journey to Glasgow.



Price includes:

- Cruise on Loch Lomond
- Travel by luxury touring coach
- Services of Blue Badge Scottish Tourist Guide
- Service charges and VAT

Ayr and Burns Country

Date: Thursday 17 May
Time: 09.30 - 12.30 hours
Price Per Person: £45.00

Our journey takes us through the golfing town of Troon, where we will see the Championship links course. At the small village of Alloway we will visit Robert Burns cottage, where the famous poet was born in 1759. There is also the opportunity to visit the Land O'Burns Centre which explains the life and times of Burns before returning to Glasgow.



Price includes:

- Admission to Burns Cottage, Alloway
- Interior visit to Land O'Burns Centre
- Travel by luxury touring coach
- Services of Blue Badge Scottish Tourist Guide
- Service charges and VAT

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Full Day Tours

Burns Country & Culzean Castle

Date: Tuesday 15 May
Time: 09.30 - 17.30 hours
Price Per Person: £60.00

Our journey takes us through the golfing town of Troon, where we will see the Championship links course. At the small village of Alloway we will visit Robert Burns cottage, where the famous poet was born in 1759. There is also the opportunity to visit the Land O'Burns Centre which explains the life and times of Burns. After lunch we'll travel southwards to Culzean Castle, the ancestral home of the Kennedy family. The castle was built between 1772 and 1792 by Robert Adam and stands within a substantial country park.

Price includes:

- Admission to Burns Cottage, Alloway
- Interior visit to Land O'Burns Centre
- Admission to Culzean Castle
- Travel by luxury touring coach
- Services of Blue Badge Scottish Tourist Guide
- Service charges and VAT



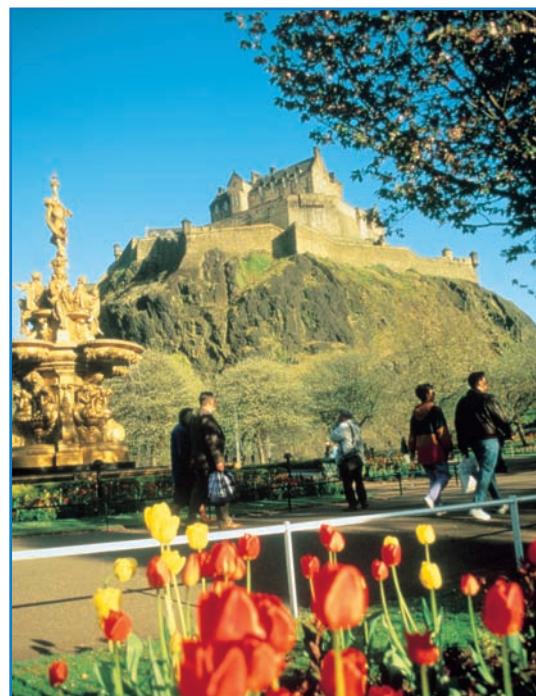
Edinburgh

Date: Wednesday 16 May
Time: 09.30 - 17.30 hours
Price Per Person: £60.00

We travel to Edinburgh past historic Linlithgow, where we can see over to Linlithgow Palace, the birthplace of Mary Queen of Scots. On the outskirts of Edinburgh we will enjoy morning coffee & shortbread in the shadow of the magnificent Forth Bridges before a panoramic look at the sweeping Georgian terraces and crescents of the New Town, followed by an interior visit to Edinburgh Castle. After lunch the remainder of the afternoon is free for shopping and/or sightseeing.

Price includes:

- Panoramic sightseeing tour of Edinburgh
- Admission to Edinburgh Castle
- Travel by luxury touring coach
- Services of Blue Badge Scottish Tourist Guide
- Service charges and VAT





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Stirling and the Trossachs

Date: Wednesday 16 May
Time: 09.30 - 17.30 hours
Price Per Person: £60.00

From Glasgow we travel northwards to the historic town of Stirling, once the home of the Scottish Kings and Queens. In addition to free time to explore Stirling we are given a guided tour of the Castle. We continue through Callander before the dramatic climb over the Duke's Pass to Aberfoyle where we enjoy lunch in the heart of the Trossachs National Park. The afternoon is spent with some free time for shopping in the Scottish Sheep Centre woollen shop before the scenic drive over the Campsie Fells and back to Glasgow.



Price includes:

- Guided tour of Stirling Castle
- Shopping in Aberfoyle
- Travel by luxury touring coach
- Services of Blue Badge Scottish Tourist Guide
- Service charges and VAT

Inveraray and Loch Lomond

Date: Thursday 17 May
Time: 09.30 - 17.30 hours
Price Per Person: £60.00

From Glasgow we travel along the banks of the river Clyde to Helensburgh and then by way of scenic Glen Fruin to Loch Lomond and on to Tarbet, Arrochar and then over the Rest and be Thankful mountain pass and along the shores of Loch Fyne to Inveraray. We'll have a visit to Inveraray Castle, the home of the Duke of Argyll. After lunch we enjoy Loch Lomond again and we'll make a stop to enjoy the panoramic views at Loch Lomond Shores in the Loch Lomond National Park, and have a chance to do some shopping before returning to Glasgow.



Price includes:

- Visit to Inveraray Castle
- Visit to Loch Lomond Shores
- Service charges and VAT



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Pre-Congress Sightseeing Tours

2 Day Tour Options

Inverness, Loch Ness & Highlands

Dates: Saturday 12 - Sunday 13 May

Price per person sharing a twin or double room: £255.00

Price per person in a single room: £305.00

Prices are based on a minimum of 20 paying passengers and are subject to availability when the go-ahead is given.

Price includes the following:

- 1 night accommodation in rooms with private facilities
- 1 full Scottish breakfast
- 1 table d'hôte dinner
- Admission to Castle Urquhart
- Sail on Loch Ness
- Services of qualified Blue Badge Scottish Tourist Guide
- Transportation throughout by luxury touring coach
- Services of experienced driver
- Porterage based on one suitcase per person
- Service charges at hotels and all Government taxes

Price does not include the following:

- Items of a personal nature such as newspapers, room service, telephone calls etc.
- Drinks/meals other than those specifically mentioned in the itinerary
- Gratuity to driver/guide

This two day tour will let you explore one of Scotland's most popular cities, at your own pace; go monster spotting by Loch Ness and see some spectacular scenery. This really is essential Scotland!

Day One

We make our way to lonely Rannoch Moor and into Glen Coe, Scotland's most famous glen and the scene of the terrible massacre in 1692. We will make a stop in the midst of this awe-inspiring scenery where you can enjoy the magic of this special place. From Fort William the striking scenery of the Great Glen unfolds ahead of us - first Loch Lochy, then Loch Oich and finally Loch Ness. We will tour through in the attractive village of Fort Augustus then drive the entire length of Loch Ness. We will make a stop at Urquhart Castle, where you visit the Castle and take a cruise on the loch. Shortly we will arrive in Inverness, our home for tonight. Dinner and overnight in Inverness.

Day Two



This morning we have an enjoyable excursion through the Black Isle to the picturesque village of Cromarty. Later we will spend some time dolphin spotting by the Moray Firth before crossing the Kessock Bridge and making our way back to Inverness.

Later there is free time in Inverness for shopping or sightseeing. As we depart Inverness we make our way through the gentle Spey Valley then on through stunning scenery as we drive over the Drumochter Pass. Keep a close watch for the deer that often come down to the roadside to graze. There are wonderful views of majestic Blair Castle before we make a stop in the heart of the Perthshire countryside. From here we make our way homewards to our journey's end.



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Glimpse of Scotland

Dates: Saturday 12 – Sunday 13 May

Price per person sharing a twin or double room: £255.00

Price per person in a single room: £305.00

Prices are based on a minimum of 20 paying passengers and are subject to availability when the go-ahead is given.

Price includes the following:

- 1 night accommodation in rooms with private facilities
- 1 full Scottish breakfast
- 1 table d'hôte dinner
- Admission to Kilchurn Castle
- Services of qualified Blue Badge Scottish Tourist Guide
- Transportation throughout by luxury touring coach
- Services of experienced driver
- Porterage based on one suitcase per person
- Service charges at hotels and all Government taxes

Price does not include the following:

- Items of a personal nature such as newspapers, room service, telephone calls etc.
- Drinks/meals other than those specifically mentioned in the itinerary
- Gratuity to driver/guide

This two day tour will let you discover the scenic beauty of Scotland's West Coast and the attractive fishing port of Oban. A comfortable stay in Inverness, the Capital of the Highlands makes this a great way to discover Scotland.

Day One



Our journey takes us northwards through the Loch Lomond and Trossachs National Park with its lochs and mountains and into the Highlands. After a short break in the little village of Luss our scenic drive continues through Glen Lochy to romantic Kilchurn Castle, which stands guard at the head of Loch Awe. For years Loch Awe was a natural protection for the Campbells of Inveraray against their enemies from the North. Oban is a picturesque fishing port set on the Firth of Lorn. We have plenty of time to discover this bustling town and enjoy the views towards the Island of Kerrera and the Inner Hebrides beyond.

From Oban we make our way northwards through Appin and Benderloch to Fort William. As we travel through Glen Spean there are wonderful views over Loch Laggan and a drive through the gentle Spey Valley will bring us to Inverness, our home for tonight. Dinner and overnight in Inverness.

Day Two

This morning we have an enjoyable excursion through the Black Isle to the picturesque village of Cromarty. Later we will spend some time dolphin spotting by the Moray Firth before crossing the Kessock Bridge and making our way back to Inverness.

After some free time in for shopping or sightseeing we depart Inverness and on through the stunning scenery of the Drumochter Pass. Keep a close watch for the deer that often come down to the roadside to graze. We will enjoy views of Blair Castle in the heart of the Perthshire countryside then homewards to journey's end.



City of Durham and the English Lake District

Dates: Thursday 10 - Saturday 12 May

This tour is in conjunction with the optional Technical Visits to either Sellafield or the LLW Repository. Please refer to page 18

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Registration

How to Register:

On-line

Register on-line at the Congress website www.irpa13glasgow.com. This is a secure server website.

Registration Fees

	On or before 16 January 2012	17 January 2012 - 7 May 2012	8 May 2012 onwards - onsite
Delegate Registration Fee	£525.00	£625.00	£725.00
Accompanying Persons	£150.00	£150.00	£150.00

Delegates registering on or after 8 May 2012 will be charged the onsite rates.

Delegate Registration fee includes:

- attendance at all Congress sessions
- all Congress documentation including digital access
- Congress bag
- welcome reception and opening ceremony and "wee dram" after the closing ceremony
- teas/coffees
- Delegate travel pass
- VAT@ prevailing rate

The accompanying persons' registration fee includes:

- welcome reception, opening ceremony and "wee dram"
- teas/coffees throughout the congress week
- "hop on hop off" city bus ticket
- ½ day sightseeing tour
- Delegate travel pass
- accompanying persons bag
- VAT @ prevailing rate

Cancellation

Notification of cancellations must be sent, in writing, to the Congress Secretariat. Cancellations will be accepted until 16 January 2012 with a refund of all fees except for an administration fee of 25%. No refunds can be made for cancellations received on or after 17 January 2012. Substitutions of attendees on a full time or part time basis can be made at any time.

Confirmation & Joining Instructions

Confirmation of registration will be sent to delegates whose payment has been received. In addition, Joining Instructions will be sent out in May 2012, by email, to assist you with your visit to Glasgow. Please ensure you submit your email address when registering.

Payment

Payment should be made in Pounds Sterling (£) at the time of registration by one of the following methods:

- MasterCard/Visa. Please note that all fees paid by credit card will be charged at the actual exchange rate at the time of the transaction. No other credit cards can be accepted.
- Cheque or banker's draft, in pounds sterling only, drawn on a UK bank made payable to 'Congrex/IRPA13'

Bursary Applications

Persons wishing to apply for financial assistance to attend the Congress should do via the website, providing all the required information. Further information on financial assistance is given [later in this announcement / on page 33]. Successful applicants will be notified as soon as possible after the deadline in January 2012 and given a code to enable them to complete registration.

Studentships

A limited number of places are available for students in full time education at a delegate rate of £375.00. Applications, which must give evidence of full time study and be supported by an IRPA Associate Society Officer, should be made via the website as for Bursary applications, and will be considered on a first come basis.

Data Protection

Your name and address will be contained in the full list of participants, available to all delegates and exhibitors. If you do not wish to have your name included, please opt out on the registration form. We will not share your personal information with any supporters or outside groups. Any pre-conference promotional material you receive will come from us directly, including material from supporting companies.



13 - 18 May 2012 ■ Glasgow ■ Scotland

13th International Congress of the International Radiation Protection Association

Accommodation

Hotel rooms in various price categories in Glasgow have been reserved for the 13th International Congress of the International Radiation Protection Association from 13 to 18 May 2012 in Glasgow, UK.

Please find underneath the relevant hotel booking information. If you have any further questions, please do not hesitate to contact us.

Individual Bookings

Individual participants can book their hotel room via internet or send an e-mail to accommodation@irpa13glasgow.com. A global deposit of GBP 150 is required to guarantee the room reservation. Each participant will receive a confirmation/invoice and can settle the deposit by credit card or bank transfer. Hotel reservations without payment 10 days after confirmation sent by Congrex Travel cannot be held and will therefore be released. Final payment for the duration of the stay has to be made before **2 April 2012** to Congrex Travel. Please don't send any payments to the hotel.

Booking Policy

All requests will be handled on a "first come-first served basis". Hotel availability will be guaranteed until **2 April 2012**. On or after this deadline, requests will be accepted, but hotel accommodation is subject to availability and cannot be guaranteed anymore. On or after the **2 April 2012** bookings are only possible against full payment by credit card; an administration fee of GBP 30 will be charged.

Change, Cancellation & Refund Policy

Any change of reservations sent to Congrex Travel via e-mail, will be subject to a handling fee of GBP 30. Please do not contact the hotel directly.

If your reservation is cancelled before **2 April 2012**, the deposit will be refunded, less a GBP 60 administration fee. If your reservation is cancelled on or after this date no refunds can be made.

Group Bookings

For requests of more than 8 rooms, different conditions will be applied and a group contract will be set up. Please contact IRPA13 Hotel Department for more information.

Contact Details IRPA13 Hotel Department

Contact person: Gemma van Bakel

Direct phone number: +31 20 5040 218

Direct fax number: +31 20 5040 225

E-mail address: accommodation@irpa13glasgow.com

Rates

Hotel	Cat.	Single Room Rate	Double Room Rate
Crowne Plaza Glasgow****	C	£190,00	£200,00
Campanile***	A	£100,00	£110,00
Mint Hotel Glasgow****	C	£165,00	£175,00
Hilton Glasgow****	B	£125,00	£135,00
Menzies Glasgow Hotel****	B	£125,00	£135,00
Best Western Pond Hotel***	A	£95,00	£105,00
Premier Inn Argyle Street***	A	£100,00	£110,00
Ibis Glasgow**	A	£65,00	£70,00
Etap Glasgow**	A	£60,00	£65,00

Category	Single from - to	Double from - to
A	£60,00 - 105,00	£65,00 - 110,00
B	£105,00 - 150,00	£110,00 - 155,00
C	£150,00 - 195,00	£155,00 - 200,00

Alternative Accommodation

Should delegates wish to book budget accommodation including Bed & Breakfasts please refer to the Glasgow Tourist Board website, <http://www.seeglasgow.com>.

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Crowne Plaza Glasgow ****

100 rooms

Congress Road, Glasgow G3 8QT



Overlooking the River Clyde, with a direct link to the Scottish Exhibition & Conference Centre (SECC), Crowne Plaza Glasgow is an excellent choice for the business and leisure traveller. The hotel is non-smoking throughout. The hotel offers 283 air conditioned bedrooms and suites with wireless Internet access. Club Rooms boasting King-sized beds with river view and plasma screens. The Leisure Club includes an indoor pool, equipped gym, sauna, spa and steam room. Alternatively, treat yourself to a massage or a beauty treatment. Crowne Plaza Glasgow has easy access to shopping areas within the west end, but is also connected to the SECC.

(Minimum booking period: 13 - 18 May 2012, 5 nights)

Distance to the congress venue: On the premises of SECC, walking distance

Campanile ***

60 rooms

10 Tunnel Street, Glasgow G3 8HL



Campanile Glasgow is in front of the SECC conference centre. The hotel is within easy access of the city centre and rail links and has free car parking. With 106 rooms, Campanile Hotel-Restaurant Glasgow SECC has everything to help you relax, move freely and work efficiently if here attending a congress. Courtesy tray with kettle, tea, coffee and biscuits refilled daily in each room. For your comfort, each room has a television, a desk, a telephone with a direct line and a modem line for your computer. WI-FI access is available in all rooms. The Cafe Bistro restaurant is fully licensed and offers a variety of French and continental cuisine, including sweet buffets and hors d'oeuvre buffets. Daily specials and chef specials are also available. There are 5 conference rooms for 2 to 150 people, all with air conditioning and natural light.

(Minimum booking period: 13 - 18 May 2012, 5 nights)

Distance to congress venue: on premises SECC, walking distance

Mint Hotel Glasgow ****

75 rooms

5 Finnieston Quay, Glasgow G3 8HN



Mint Hotel Glasgow is located near the SECC and situated close to all the sights and entertainment that Glasgow has to offer. Mint Hotel Glasgow comprises 164 bedrooms, many with river views over the Clyde and all with facilities for leisure or business guests: imac computers, complimentary wi-fi, skype, sky, luxurious linen, power showers and 24 hours room service. Mint Hotel Glasgow has plenty to boast about including fine dining in the award-winning restaurant, or eat alfresco on the riverside terrace. Unwind in the lounge bar then retire to your room.

(Minimum booking period: 13 - 18 May 2012, 5 nights)

Distance to the congress venue: On the premises of SECC, walking distance

Hilton Glasgow *****

100 rooms

1 William Street, Glasgow G3 8HT



The centrally located Hilton Glasgow hotel is only minutes away from Glasgow's shopping district eight miles from Glasgow Airport, and within easy reach of the Scottish Exhibition and Conference Centre. The guest rooms at the Hilton Glasgow hotel offer 32-inch flat-screen TVs and on-demand movies. Step up to an Executive Room to enjoy sweeping views of Glasgow and access to the Executive Lounge. All rooms at the Hilton Glasgow hotel offer high-speed internet access. Dine at Camerons restaurant, perfect for intimate dining, or enjoy international cuisine from the carvery in Minksy's New York style Brasserie. Get fit in the 15-metre swimming pool or fully equipped fitness centre or indulge yourself with a treatment from The Ocean Rooms Spa. The Hilton Glasgow hotel boasts 16 meeting rooms for 2-1000 people, a business centre, Executive Lounge and wireless internet access in the meeting rooms and lobby.

Distance to congress venue: 1 km / walking distance

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Menzies ****

60 rooms

27 Washington Street, Glasgow G3 8AZ

The hotel consists of 141 guest rooms, each with its own unique Feng Shui décor and stylish furnishings. The rooms are equipped with amenities including individually controlled air-conditioning and heating, colour television with satellite, direct dial telephone, internet access, in room safety deposit box, wake up calls, iron with ironing board and an en-suite bathroom with bath/shower, hairdryer and complementary toiletries.

Distance to congress venue: 1.5 km / walking distance, 10 - 15 minutes / 15 minutes by bus service 24 or 204

Pond Hotel (Best Western)***

80 rooms

Great Western Road, Glasgow G12 0XP

The Glasgow Pond Hotel is located within easy reach of the main motorway network, mainline stations & only eight miles from Glasgow Airport. There are 137 superior double and twin bedrooms with LCD TV, laptop safe, power shower and blackout curtains. The hotel offers its guests a variety of conference and event space for up to 140 guests. All rooms benefit from natural daylight and air conditioning, furthermore free WIFI is available throughout the hotel. The Brasserie Restaurant and Bar is synonymous with great food and excellent service, served in stylish surroundings. Complimentary onsite parking is available for up to 140 vehicles.

Distance to congress venue: 5.0 km / 25 minutes by train



Premier Inn Argyle Street*** 60 rooms 377 Argyle Street, Glasgow G2 8LL

This city-centre Premier Inn is very close to Glasgow Central Station, popular shopping areas, restaurants and bars. Good road and public transport links are close by. The hotel is ideal for all travellers and is convenient for exploring Glasgow. It has fresh, modern feel, a restaurant/bar and a Costa coffee outlet. The full all-you-can-eat breakfast has the expected cooked items, including vegetarian sausages, as well as a wide continental selection.



Distance to congress venue: 1.5 kilometers / 20 - 25 minutes by public transport (bus service 24, 204, 215)

Ibis Glasgow **

70 rooms

220 West Regent Street, G2 4DQ, Glasgow

Ibis Glasgow hotel is centrally located, close to train stations, the M8 motorway and the airport. The SECC Exhibition and Convention Centre is only 2.5 kilometers from the hotel. The hotel offers 141 rooms of which six rooms are adapted rooms for guests with limited mobility. The café / bar serve snacks 24 hours. Shops, restaurants and pubs are located on Sauchiehall Street, five minutes from the hotel.

Distance to congress venue: 2.5 kilometers / 15 minutes by public transport (bus service 204 or 9 / train from Central Station)



Etap **

80 rooms

2a Springfield Quay, Glasgow, G5 8NP

The Etap Hotel offers comfortable rooms at budget prices. Situated in the Springfield Quay, one of the Glasgow's largest entertainment centres, the Etap Glasgow Hotel is surrounded by restaurants and amenities including 12 screen Odeon Cinema, bowling venue, Mecca bingo, and Scotland's largest Casino, Alea. The Etap Hotel is within walking distance of Glasgow city centre, 5 minutes drive to Scottish Exhibition and Conference centre (SECC), 5 minutes drive to the Glasgow Central rail station and 15 minutes drive to the Glasgow International Airport.



Distance to the congress venue: 1.5 kilometres

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Glasgow

Glasgow is one of Europe's most vibrant and cosmopolitan cities - a friendly and safe place to visit where the people are proud of their heritage and delight in making visitors welcome to their wonderful City. Glasgow is also widely recognised as one of the world's most exciting cultural capitals. Following its reign as European City of Culture in 1990, you'll find that any year is just as exciting for the arts, entertainment and a host of other pursuits the City has to offer. Glasgow's extensive art collections are world famous from the Gallery of Modern Art to the Burrell Collection. Kelvingrove Museum & Art Gallery has reopened after a £27.9 million refurbishment programme to create modern facilities, services and displays while ensuring the building itself can be seen to its best effect.

The City is also renowned for its Victorian Architecture and for the work of its most famous architects Charles Rennie Mackintosh and Alexander "Greek" Thomson, examples of whose work can be seen throughout the City. Glasgow means "dear green place" and you will find over 70 beautiful parks and gardens, all set in an area surrounded by some of the world's most attractive scenery. Glasgow is also ideally situated for those who want to extend their stay in Scotland.

Congress and Exhibition Venue

The venue for the IRPA13 Congress is the Scottish Exhibition and Conference Centre (SECC) which is Scotland's premier national venue for public events, concerts and conferences. Celebrating its 25th anniversary last year, the venue has hosted 3,889 events and welcomed over 28 million visitors since opening its doors in 1985.

The SECC itself is situated on the banks of the River Clyde in the heart of Scotland's largest city, Glasgow. The SECC has transport links to the city which are second to none, as it is located alongside the major motorway network, has its own subway station, and is only 20 minutes from the international airport.

Transportation

Glasgow is easily reached from all parts of the UK with excellent road links and frequent trains. Glasgow International Airport is located just 15 minutes drive (eight miles/13 kilometres) from the city centre with frequent domestic services to London and other UK destinations. For those travelling from further afield, there are direct, scheduled flights to over 30 international destinations within Europe, North America and beyond. Combined with Edinburgh Airport and Glasgow Prestwick Airport, both less than one hour away, there are direct flights from many European cities including the key hubs of Amsterdam, Brussels, Copenhagen, Frankfurt and Paris. A railway station is adjacent to Glasgow Prestwick Airport with regular direct trains to the city centre.

Delegate Travel Pass Transport Ticket

Delegates and accompanying persons will receive a transport ticket as part of their registration fee. The transport ticket is valid from Sunday, 13 May - Friday, 18 May 2012. This will allow travel on buses and trains in the Strathclyde region, covering the Glasgow metropolitan area and the surrounding countryside, free of charge for the duration of the Congress. Further information on how to use the ticket will be contained in your delegate pack you will receive when you arrive at the Congress.

Registration, Accommodation and Flight Booking

Registration, accommodation and flight booking is available online at www.irpa13glasgow.com.

Passports and Visas

A valid passport is required for entry into the United Kingdom. Please consult the British Consulate nearest to you for specific details and visa requirements well in advance of your travel arrangements.

Insurance

The registration fees do not include the insurance of participants against personal accidents, sickness, and cancellations by any party, theft, loss or damage to personal possessions. Participants are advised to take out adequate personal insurance to cover travel, accommodation, cancellation and personal effects.

Language

The official Congress language is English

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Letters of Invitation

Delegates requiring a letter of invitation to attend the Congress should visit the Congress website, www.irpa13glasgow.com and click on the Invitation Letter link where they will be asked to complete a form regarding their personal details, an invitation letter will then be generated and emailed to the delegate.

Please note that a letter of invitation will be provided to assist delegates in obtaining a visa or permission to attend the Congress and should not be considered as an official invitation covering fees and other expenses.

Important Deadlines

Submission of abstracts closes	16 September 2011 Firm and Final Date
Notification of acceptance	30 November 2011
Early registration ends	16 January 2012
Submission of full papers and poster PDF's	12 March 2012
Standard Registration ends	7 May 2012
IRPA Congress	13 - 18 May 2012

Financial Support

As in previous IRPA Congresses, financial support is available to assist delegates who might otherwise be unable to attend. Application for support should be made through the registration section of the Congress web-site. A special committee, the International Conference Support Committee (ICSC) has been set up to evaluate requests and decide on the level of support to be offered. Financial support will normally cover the Congress Registration fee and may include support or partial support for travel and subsistence. Priority will be given to younger applicants from developing countries, to sole applicants from a country and to applicants from countries not having an IRPA Associate Society. Also taken into account will be whether applicants have submitted a paper that has been accepted, whether this would be the first IRPA Congress to be attended and whether the applicant is able to fund some or all of their travel and subsistence from other sources. The deadline for requests for financial support is 16 January 2012.

The ICSC comprises nominations from the IRPA Executive, WHO and PAHO and IAEA under the Chairmanship of Geoffrey Webb from the IRPA13 ICOC.

Golf

The IRPA13 International Congress Organising Committee have arranged golf to be available to delegates and accompanying persons at East Renfrewshire Golf Course throughout the Congress week. The cost will be £45.00 per round and club hire will be available. Should you wish to book golf please indicate this during the registration process and we will in turn send you the information to allow you to book this directly with the Golf Course.

Disclaimer

All best endeavours will be made to present the programme as printed. However, the Congress hosts and secretariat reserve the right to alter or cancel, without prior notice, any arrangements, timetables, plans or other items relating directly or indirectly to the Congress, for any cause beyond its reasonable control. The Congress hosts and secretariat are not liable for any loss or inconvenience caused as a result of such alteration. In the event of cancellation of the Congress all pre-paid fees will be refunded in full. However, the Congress hosts and its agents are not liable for any loss or inconvenience caused as a result of such cancellation. Delegates are advised to take out their own travel insurance and to extend their policy to cover personal possessions as the Congress does not cover individuals against cancellation of bookings or theft or damage to belongings. Tours may be subject to cancellation should minimum numbers not be achieved.

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Congress Secretariat

Congrex UK has been appointed as the Congress Secretariat for the IRPA13 Congress and is very pleased to assist delegates with any questions they might have regarding participation in IRPA13 2012.

Congrex UK Limited

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Glasgow G4 9TH

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IRPA Business Programme

In addition to the scientific programme, each IRPA Congress is also a major milestone in the life of the association. Before and during the congress, a series of meetings of the various committees and commissions of the association will allow the appointed Associate Societies' participants to review the actions of IRPA and prepare for the future.

The day-long Associate Societies Forum will be held on the Sunday before the Congress. It will provide an opportunity to discuss common issues in depth and to develop ideas concerning the running of IRPA. All Associate Societies are strongly encouraged to ensure that they are represented at the Forum, and all Congress delegates are also able to participate.

The General Assembly held on the Wednesday afternoon will be the highlight of the business programme during which approximately 150 formally nominated Associate Society delegates, representing the 46 Associated Societies will elect the officers and members for the next Executive Council that will operate during the 2012 - 2016 period. It will also conduct other formal business, including confirming the venue for the next International Congress (IRPA14) scheduled for 2016 and the selection of the prime candidate for the 2020 Congress.

IRPA's committees and commissions will meet as necessary during the week - the detailed programme will be announced by the IRPA Executive.

The key events in the business programme will be:

Saturday 12 May 2012	50th Executive Council meeting
Sunday 13 May 2012	Associate Societies Forum
Monday 14 May 2012	TBA
Tuesday 15 May 2012	TBA
Wednesday 16 May 2012	IRPA General Assembly
Friday 18 May 2012	51st Executive Council meeting

Further information will be given on the IRPA13 website (www.irpa13glasgow.com). For information regarding the business programme please contact the IRPA Executive office at exof@irpa.net.



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Further Information

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