19th International Conference on Radionuclide Metrology and its Applications

17 – 21 June 2013
Antwerp
Belgium

Hosted by
European Commission - Joint Research Centre
Institute for Reference Materials and Measurements (IRMM)
Scientific Committee and Conference Organisation

The scientific organisation of the conference, the selection and refereeing of papers and the publication of the proceedings are the responsibility of the Scientific Committee, whose members are:

Dirk Arnold, PTB, Germany
Marie-Martine Bé, LNE-LNHB, France
Christophe Bobin, LNE-LNHB, France
Philippe Cassette, LNE-LNHB, France
Jeffrey Cessna, NIST, USA
Pierino De Felice, ENEA, Italy
Eduardo Garcia-Torán, CIEMAT, Spain
Arvic Harms, NPL, UK
Yoshio Hino, NMIJ/AIST, Japan
Mikael Hult, EC-JRC-IRMM, EU
Lisa Karam, NIST, USA
John Keightley, NPL, UK
Matjaz Korun, JSI, Slovenia

Karsten Kossert, PTB, Germany
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Franz Josef Maringer, BEV, Austria
Tae-Soon Park, KRISS, Korea
Stefaan Pommé, EC-JRC-IRMM, EU
Guy Ratel, BIPM, International
Octavian Sima, Univ. Bucharest, Romania
Mike Unterweger, NIST, USA
Freda van Wyngaardt, NMISA, South Africa
Uwe Wätjen, EC-JRC-IRMM, EU
Mike Woods, IRMC, UK
Akira Yunoki, NMIJ/AIST, Japan
Brian Zimmerman, NIST, USA

Scientific Secretariat
(manuscripts, proceedings, enquiries of a scientific nature)

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Conference Secretariat
Local Organising Committee
(registration, fees, enquiries on accommodation and organisational matters)

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e-mail: jrc-irmm-icrm2013@ec.europa.eu

Important Deadlines and Dates

31 March 2013  To support the reviewing process, preferable submission of manuscripts
21 April 2013  Absolute deadline for submission of manuscripts
30 April 2013  Deadline for early registration
17-20 June 2013  Conference, ICRM Working Groups
21 June 2013  General Meeting of ICRM
6 Sept 2013  Submission of final version of papers
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*General, Abstracts, Text, Units, References, Illustrations, Line drawings, Photographs, Colour, Tables, Electronic submission, Proofs, Offprints, Copyright, Author enquiries*
Conference Description

The International Committee for Radionuclide Metrology is pleased to announce that its next conference will be hosted by the European Commission, Joint Research Centre, Institute for Reference Materials and Measurements (EC-JRC-IRMM) from 17 to 21 June 2013 in Antwerp, Belgium.

The goal of ICRM 2013 is to provide an opportunity for the exchange of information on the development of techniques and new applications of radionuclide metrology, and to encourage international cooperation in this field. This biennial conference was recently held in September 2011 in Tsukuba, Japan.

The conference will include oral and poster presentations, business meetings of the ICRM Working Groups, and company exhibitions.

Conference Topics

* Aspects of international metrology (AIM)
* Intercomparisons (I)
* Measurement standards and reference materials (MSRM)
* Radionuclide metrology techniques (RMT)
* Alpha-particle and beta-particle spectrometry (ABS)
* Gamma-ray spectrometry (GS)
* Liquid scintillation counting techniques (LSC)
* Nuclear decay data (ND)
* Low level measurement techniques (LL)
* Radionuclide metrology in life sciences (RMLS)
* Source preparation techniques (SP)
* Quality assurance and uncertainty evaluation in radioactivity measurements (QA)
* Special session on science-based advice to policy makers (SBA)

Additional activities during the conference will be the General Meeting of ICRM members, a visit to the laboratory facilities of the EC-JRC-IRMM, and social events.

Conference Language

The official language of the conference is English. All papers and presentations must be in English.

Conference Venue

Congrescentrum Elzenveld (http://www.elzenveld.be)
Lange Gasthuisstraat 45
B-2000 Antwerpen, Belgium

Letter of Invitation

Official invitations may be obtained to facilitate participants attempting to obtain visas or permissions to attend the conference. Please write to the Conference Secretariat specifying any special information that may be required. Please note that these invitations do not imply any financial commitment on the part of the Conference Secretariat, ICRM or the EC-JRC-IRMM.

Liability

The 19th International Conference on Radionuclide Metrology and its Applications or the Conference Secretariat or the EC-JRC-IRMM cannot be held responsible for any personal injury, loss, damage, accident to private property or additional expenses incurred as a result of delays or changes in air, rail, sea, road or other services, strikes, sickness, weather or any other cause. Participants are, accordingly, advised to take out their own insurance.

Internet

Additional information is available from the homepage of the ICRM 2013 conference: http://irmm.jrc.ec.europa.eu/icrm2013 Please check this page regularly for updates.
Registration

Please use the on-line registration system (JRC Event Registration System), which will be available from 25 March 2013 through the Web page of ICRM 2013. In case you encounter problems with the registration system, please inform the Conference Secretariat. Each participant should make a separate registration. Consider your place at the conference confirmed only after you have received a confirmation email from the on-line system or the Conference Secretariat.

It is expected that at least one author of an accepted paper will have registered by 30 April 2013. At least one author is required to attend the conference. If this does not occur, or the registration fee has not been paid, the paper cannot be presented and it will not be published.

On Sunday, 16 June 2013, the Conference Registration Desk will be open for check-in at the venue, Congrescentrum Elzenveld, from 17:00 to 19:00. From 18:00 to 21:00, a welcome reception with food and drinks will be held at the same location.

The Conference Registration Desk will also be open from Monday to Thursday close to the lecture hall.

Registration Fees

<table>
<thead>
<tr>
<th>Payment Method</th>
<th>Before 30 April, 2013</th>
<th>After 30 April, 2013</th>
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<tbody>
<tr>
<td>Payment by bank transfer</td>
<td>400 € (euro)</td>
<td>450 € (euro)</td>
</tr>
<tr>
<td>Payment by credit card</td>
<td>410 € (euro)</td>
<td>460 € (euro)</td>
</tr>
<tr>
<td>Payment in cash at Conference Registration Desk</td>
<td>460 € (euro)</td>
<td></td>
</tr>
<tr>
<td>Accompanying person</td>
<td>100 € (euro)</td>
<td></td>
</tr>
</tbody>
</table>

The registration fees include:
- participation at all scientific sessions,
- conference bag with book of abstracts and all conference documents,
- a copy of the conference proceedings, published as special issue of Applied Radiation and Isotopes,
- refreshments during coffee breaks,
- lunches,
- conference dinner and other social functions.

Registration of an accompanying person entitles to participation in conference dinner, harbour tour and welcome reception.

Payment

To avoid bank transfer problems, please use within Europe the IBAN/BIC procedure whenever possible:
Account number: IBAN BE18 3200 3193 1965 and BIC: BBRUBEBB; Name of beneficiary: CE-CCR REGIE D’AVANCES GEEL; Country: Belgium.

Additional bank account details are needed for the SWIFT transfer procedure from other countries:
Bank name: ING Belgium; Bank address/SWIFT address: Laar 10 – 2400 Mol; Bank sort code: NONE; Country: Belgium; Code SWIFT: BIC BBRUEBB; International bank account no.: IBAN as above; Account number: 320-0319319-65; Name of beneficiary: CE-CCR REGIE D’AVANCES GEEL; Address: Retieseweg 111, 2440 Geel; Country: Belgium

In any case, state as payment reference ICRM 2013, your name and institution (abbreviate). Please make sure that costs of the bank transfer (if any) are charged to you.

On-line payment by credit card (VISA, MasterCard) will be available in April (before the deadline for early registration) and announced on the conference website once operational.

At the Conference Registration Desk, payment will only be possible in cash.

In order to qualify for the reduced registration fee, remittance must be received by 30 April 2013. After this date, the higher rate will be charged. An on-line registration without payment before 30 April 2013 will not constitute early registration.
Financial Support
For participants from EU Enlargement & Integration countries, limited financial support is available. Please consult the website of the JRC Enlargement & Integration action, http://ec.europa.eu/dgs/jrc/index.cfm?id=3080, activity 2013-IRMM-A-04, for eligibility, and apply by email as soon as possible to the Scientific Secretariat of ICRM 2013, with your short CV attached.

Cancellation
Cancellation must be made in writing to the Conference Secretariat. The registration fee will be refunded with a deduction of 30 € if cancellation is made before 31 May 2013. No refunds will be possible for any cancellation made after 31 May 2013.

Industrial Exhibition
Companies interested to expose their products and services should contact the Conference Secretariat via e-mail: jrc-irmm-icrm2013@ec.europa.eu. We have reserved exposition space in both halls, hosting the scientific poster exhibition as well as the coffee breaks. Thus, the location of the exposition is central to the whole conference.

Transport
Arriving by plane to Brussels
After arriving at the National Airport Brussels, the most practical way to reach Antwerp is by train. The airport train station is located below the terminal (basement level -1, two floors down from the arrival level). After leaving the baggage claim and customs area, keep right (45°) to get to the escalators or lifts and follow the railroad signs.

You take a train connecting Brussel-Nat-Luchthaven [NMBS/SNCB] to Antwerpen-Centraal [NMBS/SNCB] without change. From Monday to Friday, the departure times for direct trains are from half hour to half hour, starting with 5:14. The last train from the airport to Antwerp leaves at 23:44. The duration of the journey is around 35 minutes. On Saturdays and Sundays, the direct trains are from hour to hour, starting with 7:05 until 23:05. The duration of the journey is 43 minutes.

You can buy your train ticket on-line in advance. The price for a standard ticket is 20,80 euro. Details about time schedule, train numbers, platforms and prices can be found on the webpage http://www.belgianrail.be/

Arriving by plane to Amsterdam
Use the Thalys fast train to Antwerp Central Station directly from Amsterdam Schiphol airport. http://www.schiphol.nl/Travellers/ToFromSchiphol/PublicTransport/TrainConnectionsInternational.htm

Arriving by train
There are several fast train connections to Antwerp, mainly from Paris, Amsterdam (both by Thalys) and London (by Eurostar, connect in Brussel-Zuid/Bruxelles-Midi).
Eurostar: http://www.eurostar.com/dynamic/index.jsp
Accommodation

Blocks of rooms at special rates have been reserved for ICRM 2013 delegates in the following hotels, and you are asked to reserve your room by email directly to the hotel before the deadline stated in the table on the next page. The hotels request you to state in your email the booking code according to the table (e.g. “ICRM 2013”), your name, arrival date, departure date, type of room (single/double), credit card number, card expiration date, name of cardholder. The reservation will only be effective after confirmation by the hotel. Pay attention to the different conditions of cancellation that may apply. All necessary details for your reservation are given in the table (next page). Prices are per room and night and include breakfast. An additional city tax of 1.50 € to 2.65 € per night and person may be charged. If you do not reserve your room in due time, you may still try to reserve with the same hotels, but they cannot guarantee the room fees or availability as indicated.

Applicants for financial support from EU Enlargement&Integration countries (see page 5) should not make their own reservations, because IRMM will book rooms for successful applicants directly with the hotel.

The locations of the hotels are indicated in the map above, together with that of Congrescentrum Elzenveld. As a rough orientation, walking distances from the Congrescentrum to the Lindner Hotel (No. 7 in the map) are 1.4 km, to Hotel Prinse (No. 5) or Hotel Mercure (No. 9) 1.2 km.
<table>
<thead>
<tr>
<th>No. on map</th>
<th>Name</th>
<th>Rooms blocked for ICRM / total</th>
<th>Price (in €, special rate)</th>
<th>Email for reservation</th>
<th>Booking code</th>
<th>Deadline for booking</th>
<th>Website for information</th>
</tr>
</thead>
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<tr>
<td>1</td>
<td>Ibis Hotel Antwerpen Centrum***</td>
<td>50 / 150</td>
<td>single 79 / double 89</td>
<td><a href="mailto:H1453-SB@accor.com">H1453-SB@accor.com</a></td>
<td>ICRM Congres 536187</td>
<td>30/04</td>
<td><a href="http://www.accorhotels.com/nl/hotel-1453-ibis-antwerpen-centrum/index.shtml">http://www.accorhotels.com/nl/hotel-1453-ibis-antwerpen-centrum/index.shtml</a></td>
</tr>
<tr>
<td>2</td>
<td>Les Nuits****</td>
<td>10 / 24</td>
<td>single 119 / double 129</td>
<td><a href="mailto:sleep@hotellesnuits.be">sleep@hotellesnuits.be</a></td>
<td>ICRM 2013</td>
<td>30/04</td>
<td><a href="http://www.hotellesnuits.be/">http://www.hotellesnuits.be/</a></td>
</tr>
<tr>
<td>3</td>
<td>Theater Hotel****</td>
<td>25 / 127</td>
<td>single 115 / double 135</td>
<td><a href="mailto:reservations@theater-hotel.be">reservations@theater-hotel.be</a></td>
<td>ICRM 2013</td>
<td>30/04</td>
<td><a href="http://www.vhv-hotels.be/hotel/4">http://www.vhv-hotels.be/hotel/4</a></td>
</tr>
<tr>
<td>4</td>
<td>Colombus Hotel***</td>
<td>10 / 32</td>
<td>single 83 / double 95</td>
<td><a href="mailto:colombushotel@skynet.be">colombushotel@skynet.be</a></td>
<td>ICRM 2013</td>
<td>30/04</td>
<td><a href="http://www.colombushotel.com">http://www.colombushotel.com</a></td>
</tr>
<tr>
<td>5</td>
<td>Hotel Prinse****</td>
<td>10 / 34</td>
<td>single 108 / double 130</td>
<td><a href="mailto:hotel_prinse@skynet.be">hotel_prinse@skynet.be</a></td>
<td>ICRM 2013</td>
<td>15/04</td>
<td><a href="http://www.hotelpinse.be">http://www.hotelpinse.be</a></td>
</tr>
<tr>
<td>6</td>
<td>Leopold Hotel Antwerpen</td>
<td>20 / 127</td>
<td>single 109 / double 119</td>
<td><a href="mailto:res.antwerp@leopoldhotels.com">res.antwerp@leopoldhotels.com</a></td>
<td>ICRM 2013</td>
<td>30/04</td>
<td><a href="http://www.leopoldhotels.com/hotel_antwerpen/">www.leopoldhotels.com/hotel_antwerpen/</a></td>
</tr>
<tr>
<td>7</td>
<td>Lindner Hotel (1)</td>
<td>40 / 173</td>
<td>single 127 / double 145</td>
<td><a href="mailto:reservations.antwerpen@lindnerhotels.be">reservations.antwerpen@lindnerhotels.be</a> (1)</td>
<td>ICRM 2013 (1)</td>
<td>30/04</td>
<td><a href="http://www.lindner.de/en/lindner_hotel_antwerpen/">http://www.lindner.de/en/lindner_hotel_antwerpen/</a></td>
</tr>
<tr>
<td>8</td>
<td>Hyllit Hotel****</td>
<td>40 / 200</td>
<td>single 135 / double 155</td>
<td><a href="mailto:front.office@hyllit.com">front.office@hyllit.com</a></td>
<td>ICRM 2013</td>
<td>30/04</td>
<td><a href="http://www.hyllit.com">http://www.hyllit.com</a></td>
</tr>
<tr>
<td>9</td>
<td>Hotel Mercure Antwerpen Centrum Opera</td>
<td>20 / 47</td>
<td>single 119 / double room single use 130</td>
<td><a href="mailto:groups@demahotels.be">groups@demahotels.be</a></td>
<td>GRP ICRM/IRMM</td>
<td>15/04</td>
<td><a href="http://www.accorhotels.com/nl/hotel-8094-hotel-mercure-antwerpen-centrum-opera/index.shtml">http://www.accorhotels.com/nl/hotel-8094-hotel-mercure-antwerpen-centrum-opera/index.shtml</a></td>
</tr>
</tbody>
</table>

(1) Please ask the ICRM 2013 Conference Secretariat to send you a reservation form for this hotel prior to booking.
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<th>Sunday 16 June</th>
<th>Monday 17 June</th>
<th>Tuesday 18 June</th>
<th>Wednesday 19 June</th>
<th>Thursday 20 June</th>
<th>Friday 21 June</th>
</tr>
</thead>
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<tr>
<td>Registration desk open, Set up of Posters 08:00 – 09:00</td>
<td>ND Session incl. introd. 5 posters 08:30 – 10:40</td>
<td>LSC Session I incl. introd. 8 posters 08:30 – 10:30</td>
<td>GS Session I incl. introd. 20 posters 09:00 – 10:25</td>
<td>ICRM General Meeting at Elzenveld 09:00 – 13:00</td>
<td>In parallel: Laboratory visit to IRMM</td>
</tr>
<tr>
<td>Opening Session 09:00 – 09:20</td>
<td>RMLS Session* incl. introd. 6 posters 09:20 – 10:15</td>
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<tr>
<td>LL poster introduction I (10 posters) 10:15 – 10:35</td>
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<tr>
<td>LL Session incl. introd. 7 posters 11:05 – 12:05</td>
<td>SBA Session w. two invited speakers incl. introd. 2 posters 11:10 – 12:35</td>
<td>LSC Session II 11:00 – 12:00</td>
<td>GS Session II 10:55 – 11:15</td>
<td>I Session incl. introd. 3 posters 11:15 – 11:45</td>
<td>GS WG meeting 11:45 – 12:30</td>
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<tr>
<td>Group Photographs 12:05 – 12:35</td>
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<td>LSC WG meeting 12:00 – 12:50</td>
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<tr>
<td>Lunch 12:35 – 13:35</td>
<td>Lunch 12:35 – 13:35</td>
<td>Lunch 12:50 – 13:50</td>
<td>Lunch 12:30 – 13:30</td>
<td>General Meeting Lunch / Lunch at IRMM 13:00 – 14:00</td>
<td>Afterwards: ICRM EB meeting at Elzenveld 13:00 – 14:00 In parallel: Return from IRMM to Antwerp or Airport Brussels</td>
</tr>
<tr>
<td>Elzenveld Congrescentrum: Registration 17:00 – 19:00</td>
<td>SP Session incl. introd. 2 posters 15:45 – 16:10</td>
<td>ABS WG meeting 16:10 – 16:30</td>
<td>RMLS WG meeting 16:30 – 17:15</td>
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<tr>
<td>LL WG meeting* 15:30 – 16:20</td>
<td>ND WG meeting 16:10 – 16:55</td>
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<tr>
<td>Walk to the boat</td>
<td>RMT WG meeting 16:55 – 17:55</td>
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<tr>
<td>Welcome Reception 18:00 – 21:00</td>
<td>Harbour tour by boat 17:00 – 19:00</td>
<td>Conference Dinner 19:00 – 23:00</td>
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</tbody>
</table>

* For session and working group acronyms, see the list of conference topics on page 4
Laboratory Visit

On Friday morning, parallel with the ICRM General Meeting, a visit to our laboratories in Geel is foreseen. This visit will encompass the Radionuclide Metrology laboratory, the neutron data laboratories with the linear accelerator GELINA and a Van de Graaff accelerator as neutron sources, and the Reference Materials production facilities. IRMM will provide the bus trip (Antwerp-Geel and back or to Brussels airport) and a lunch at IRMM after the visit. In order to comply with the access formalities of IRMM, reserve a place already now when registering for the conference with the JRC Event Registration System.

Social Events

In order to provide an opportunity for informal interaction, we are pleased to invite you and the accompanying persons to a welcome reception with food and drinks at the Congrescentrum Elzenve ld from 18:00 to 21:00 on Sunday 16 June 2013. From 17:00 to 19:00 at the same place, full conference registration facilities will be available, where you will be able to register your attendance and collect your conference bag and any other materials relevant to the conference. You will also be able to leave your oral presentation with one of our staff.

On Monday afternoon, 17 June, we have scheduled a boat tour of the impressive sea port of Antwerp, third largest of Europe. On the boat, drinks will be available against payment.

A conference dinner will be held on Wednesday, 19 June, in a pleasant location outside the agglomeration of Antwerp.

Guest registration of accompanying persons (100 €), entitling to participate in all social events, may be paid in advance (see page 5) or in cash at the Conference Registration Desk.

Social Programme for Accompanying Persons

Antwerp is a town with many touristic highlights. Be sure that you include on your list of “must-see” some of the following: City Hall, Guild Houses and Brabo Statue at the Town Square (Grote Markt), Cathedral of Our Lady, Rubens House, Museum Plantin-Moretus/Prints Room, Diamond Museum, MAS (Museum aan de Stroom), Central Station (interior), the Zoo. The entrance fee to a museum varies from 5 to 10 €. Unfortunately, the Royal Museum of Fine Arts Antwerp (KMSKA) is closed during several years for major renovations.

If you think you are a “museum freak”, then the City Card is an option for you. The Antwerp City Card entitles you to free admission to all Antwerp museums and monumental churches including the Cathedral of Our Lady. You can visit the permanent and temporary exhibitions with your card. Upon presentation of your Antwerp City Card you can also enjoy several other discounts for attractions, sightseeing tours, bike rentals and typical Antwerp products. The card costs 28 euro and is 48 h valid.

If you want to use public transport then we recommend that you buy a ten-journey travel card from public transport company De Lijn. It costs € 9 and is available from the Antwerp Tourism & Convention desks in Grote Markt and in Central Station. Other useful information (weather, map, opening hours of the museums) you can find on the webpage www.visitantwerpen.be. More information will also be provided with the conference bag at the Conference Registration Desk during on-site registration at the venue.

From Antwerp you can go on one-day trips by train to Brussels (45 min), Gent (55 min), Bruges (1,5 h). The timetable of the railways: http://www.belgianrail.be/jp/sncb-nmbs-routeplanner/query.exe/en
Guide to ICRM 2013 Presentations

Oral Presentations
Please consult the final agenda to find the Session in which your paper will be presented. Contact the Session Chairpersons and confirm that you are available to make the presentation. You will be scheduled for a 15 minutes presentation with 3 - 4 minutes for discussion. Please note that additional time is needed to change speakers and to announce the presentations. Each speaker must stay within the time allotted for his presentation but does not necessarily have to speak for all the allotted time. The Chairperson of your session will insist that you adhere to the published schedule.

The auditorium will be equipped with a computer based beamer system for power point presentations. Presenters should avoid the use of detailed tables, or figures with faint or coloured lines, which will not be legible to the audience. Other questions regarding your presentation should be addressed to the Session Chairpersons or to the Scientific Secretariat.

Poster Presentations
The set-up of posters is scheduled for Monday morning, 17 June 2013. If you will not be available that morning, please ask a colleague to set up your poster in due time. Each poster is identified by a unique number, which is the abstract number assigned to the paper by the Scientific Committee. This number will also appear in the final agenda. Please place your poster on the stand labelled with the respective number.

The space available for each poster will accommodate up to A0 long size, i.e. board size about 1.00 m (width) x 2.10 m (height). Material to fix your poster will be provided by the local organiser.

Each poster will be introduced orally to the audience by the respective Session Chairperson who will prepare one POWERPOINT slide for each poster. An example of this slide is given below and its template will be available on the Conference web page. To make the contact with authors easier, each slide will be provided with a photograph of the author(s) who will act as the poster demonstrator. You should communicate to your Session Chairperson a few key statements explaining the message of your paper and provide your photograph, preferably in .jpg format. You may also offer a draft of the complete slide. However, the final version is the responsibility of the Chairperson. Please contact the Session Chairperson and confirm that you will attend the session and be available to answer questions from the audience regarding the paper.

Posters will be judged by a committee of experts. A certificate will be issued for the poster considered to be the best in terms of scientific content and presentation.
Manuscripts for ICRM 2013

Manuscripts must be submitted in English and must comply with the guidelines (ARI – Instructions to Authors at: http://www.elsevier.com/wps/find/journaldescription.cws_home/228/authorinstructions). A paper that does not comply with the guidelines will be returned for revision and may be rejected from publication if it is not revised in due time.

All authors must submit their draft manuscripts as computer files (MS Word format) to the Scientific Secretariat < uwe.waetjen@ec.europa.eu > by 21 April 2013, but preferably before 31 March 2013 to support the reviewing process. In addition, all authors must submit their draft manuscripts via the Elsevier Editorial System (EES) of Applied Radiation and Isotopes at: http://ees.elsevier.com/ari/ which is now fully operational for the ICRM 2013 proceedings, and not later than 21 April 2013. Make sure to submit your manuscript with the article type "Special issue: ICRM2013". In the step "Request Editor", choose "Special Issue Guest Editor: ICRM 2013". The step "suggest reviewers" can be skipped. You will receive confirmation e-mails from both EES and the Scientific Secretariat.

It is expected that at least one author of an accepted paper will have registered by 30 April 2013. At least one author is required to attend the conference. If this does not occur, the paper cannot be presented and it will not be published.

Because of limitations of the total number of pages of the proceedings, we request that authors keep to the maximum page numbers for full paper or technical note according to the acceptance letter they received. Authors may use a maximum of 5000 words (the equivalent of five journal pages for a Full Paper) or 2800 words (equivalent to three journal pages for a Technical Note), including figures, tables and references. Small figures and tables (if printable in a single column) represent about 200 words. Large figures and tables represent 400 to 750 words, exceptionally even more. Double line spaced in Times New Roman 12 point font type or equivalent, this approximates to a manuscript of 9 - 12 pages A4 for a Technical Note, or 16 - 20 pages for a Full Paper, including all figures, tables and references.

The reviewing process for ICRM conference papers will follow the sequence:
1. E-mail communication between Coordinating Referee, first and second referees and the author(s) based on a .doc or .docx file (MS Word 97-2003 or 2007-2010 format) before the conference.
2. Followed by a personal discussion at the conference site between the first or second referee and the author.
3. The author's revision of the paper will be finally evaluated by the Coordinating Referee with input from the first and second referee.
4. The final version must be with the Coordinating Referee before 6 September 2013.

After this review process, the final agreed version will be uploaded to the EES by the guest editor(s).

Statements of numerical results (e.g. activities, decay scheme data, etc.) must conform to the “Evaluation of measurement data - Guide to the expression of uncertainty in measurement” (JCGM 100:2008, see http://www.bipm.org/en/publications/guides/gum.html). An uncertainty budget must be given. Do not communicate confidence limits but only coverage factors. Quantities and units must comply with “The International System of Units” (see http://www.bipm.org/en/si/si_brochure/). For the papers reporting nuclear data, a covariance matrix will also be required when appropriate.

Conference Proceedings
The conference proceedings will be published in the journal APPLIED RADIATION AND ISOTOPES.

Acceptance of a paper for presentation at the conference does not automatically ensure that it will be published in the proceedings. Publication of the manuscripts is subject to the result of a refereeing procedure. Please note that a manuscript will be accepted for publication in the proceedings only if it has not been published previously and if it is not under consideration for publication elsewhere.
Applied Radiation and Isotopes - Instructions to Authors

Manuscript Preparation

General:
Manuscripts must be typewritten, double-spaced with wide margins on one side of white paper. Good quality printouts with a font size of 12 point are required. The corresponding author should be identified (include a Fax number and E-mail address). Full postal addresses must be given for all co-authors. Authors should consult a recent issue of the journal style if possible. An electronic copy of the paper should accompany the final version. The Editors reserve the right to adjust style to certain standards of uniformity. Authors should retain a copy of their manuscript since we cannot accept responsibility for damage or loss of papers. Original manuscripts are discharged one month after publication unless the Publisher is asked to return original material after use.

In manuscripts describing experiments with living animals, authors should state clearly in the text that their experiments were carried out in compliance with the relevant national laws relating to the conduct of animal experimentation, or, where such laws do not exist, that the studies were performed in accordance with some internationally recognized code of practice such as the United Kingdom Biological Council’s Guidelines on the Use of Living Animals in Scientific Investigation, 2nd edition.

Abstracts:
An abstract of not more than 80 words must be supplied for all articles, and preferentially a short summary for Technical Notes. For the ICRM 2013 proceedings, the abstract style of technical notes will be the same as for full papers.

Text:
Follow this order when typing manuscripts: Title, Authors, Affiliations, Abstract, Keywords, Main text, Acknowledgements, Appendix, References, Vitae, Figure Captions and then Tables. Do not import the Figures or Tables into your text. The corresponding author should be identified with an asterisk and footnote. All other footnotes (except for table footnotes) should be identified with superscript Arabic numbers.

Units:
Preferably, Système International (SI) units should be used throughout with equivalent quantities in older usage indicated in parentheses. NBS Special Publication 330, “The International System of Units (SI) or the Système International d’Unités,” may be helpful in this respect. Chemical and biological nomenclature should conform to International Union of Pure and Applied Chemistry (IUPAC) recommendations. The IUPAC Rules can be found in the Handbook of Chemistry and Physics, CRC Press Inc., Boca Raton, FL. Radioactive labels should be indicated by the radionuclide’s symbol in square brackets before the labelled compound, e.g. [\(^{3}\)H]H\(_{2}\)O, [\(^{14}\)C]carbon dioxide, 2-amino-4-([\(^{11}\)C]methylthio) butyric acid (not [\(^{11}\)C]methyl-methionine), N-[\(^{11}\)C]methyl-nomorphine, etc. Carrier-free compound only should be designated as \(^{3}\)H\(_{2}\), \(^{15}\)NH\(_{3}\), etc. No-carrier-added compounds should be written as \(^{15}\)N\(_{2}\), \(^{13}\)CO\(_{2}\) unless proof of specific activity is given. Metastable (isomeric) and ground state of nuclei are designated by an “m” or “g” respectively, placed after the atomic-mass number, e.g. \(^{99m}\)Tc and \(^{99}\)gTc, although the “g” may be omitted if no ambiguity results.

References:
All publications cited in the text should be presented in a list of references following the text of the manuscript. In the text, refer to the author’s name (without initials) and year of publication (e.g. “Since Peterson (1993) has shown that ...” or “This is in agreement with results obtained later (Kramer, 1994))”.
For three or more authors, use the first author followed by “et al.,” in the text. The list of references should be arranged alphabetically by authors’ names. The manuscript should be carefully checked to ensure that the spelling of authors’ names and dates are exactly the same in the text as in the list of references. References should be given in the following form:


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All illustrations should be provided in camera-ready form, suitable for reproduction (which may include reduction) without retouching. Photographs, charts and diagrams are all to be referred to as “Figure(s)” and should be numbered consecutively in the order to which they are referred. They should accompany the manuscript, but should not be included within the text. All illustrations should be clearly marked on the back with the figure number and the author’s name. All figures are to have a caption. Captions should be supplied on a separate sheet.

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Tables:
Tables should be numbered consecutively and given a suitable caption; each table is to be typed on a separate sheet. Footnotes to tables should be typed below the table and should be referred to by superscript lowercase letters. No vertical rules should be used. Tables should not duplicate results presented elsewhere in the manuscript (e.g. in graphs).

Electronic Submission:
Authors should submit an electronic copy of their paper with the final version of the manuscript, using the article type "Special issue: ICRM2013" and editor "Special Issue Guest Editor: ICRM 2013". The step "suggest reviewers" in the submission procedure can be skipped, since reviewers are nominated by the coordinating referees. The electronic copy should match the hardcopy exactly. Always keep a backup copy of the electronic file for reference and safety. Full details of electronic submission and formats can be obtained from http://ees.elsevier.com/ari/ (by 21 April 2013 at the latest) or from Author Services at Elsevier Science.

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Poster and company exhibition hall  
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