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RADIOCHEMISTRY IN EUROPE NEWSLETTER

Issue 29 – October 2004

EDITORIAL COMMENT

Welcome to the twenty-ninth Newsletter for Radiochemists in Europe under the sponsorship of the Federation of European Chemical Societies (FECS). The FECS Executive on 14th Oct passed a motion that the FECS constitution should be amended to enable FECS to be reconstituted as an “Association Internationale Sans But Lucratif” in Belgium with a change of name to **European Association for Chemistry and Molecular Sciences (EuCheMS)**. This was subsequently passed the next day at the FECS General Assembly. The legal procedures will now take place with the inauguration of EuCheMS in the spring 2005.

This decision will of course affect the WebPages but detail will be given in a later newsletter. The logo will remain substantially the same with a large “E” inside the hexagon. EuCheMS will replace the lettering FECS.

This newsletter is established on web page (<http://www.rsc.org/pdf/andiv/euroopenews.pdf>). The newsletter is perhaps more easily accessed through the website of The WP on Nuclear and Radiochemistry of FECS, whose URL is now www.fecs-chemistry.org/nuclear. This website has other useful connections to “Future Events” called nuclear and radiochemical activities in Europe, and the Homepage of the Radiochemistry Group of RSC. If any other

group would like their website to be linked, please send me the details. Note that some changes have already been made. With regard to the Future Events I include conferences in other disciplines which have or could have a section involving nuclear and radiochemistry. It is the WP’s aim to involve scientists from a wide range of disciplines and topic areas.

The WP is interested in expanding an existing database on training courses in radiochemistry. Do you think that such a database should be widely available? Please let us have your comments and send details of any courses that you run including any courses available through a website.

This is your newsletter for radiochemists in Europe. Articles, reports on meetings, laboratory profiles, courses, positions vacant, redundant equipment and any other item you feel may be of interest to other radiochemists are still urgently required. Also the early announcement of dates for meetings and conferences is important to avoid the possibility of organising two at the same time on similar topics within Europe.

Providing that information is available I intend to compile this newsletter 4 times per year in March, June, September, and December/January. Please send information in good time for inclusion that is by the end of the month prior to publication. **Editor: Dr. Tony Ware (e-mail: tonyware@compuserve.com)**

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•EUROPEAN RADIOCHEMISTS ASSOCIATION.

Aims and Objectives

The objective of the association is to extend and improve communications between radiochemists in Europe through a newsletter. This will be achieved through aims, which include

1. Establishing a liaison person within each country (or group).
2. Exchanging with each of the other liaison persons details of the activities of their own group during the current and subsequent years,
3. Setting up a diary of relevant International Events to avoid duplication of dates and hence improve attendance
4. Exchanging details of specialist equipment, facilities and methodology.

•FEDERATION OF EUROPEAN CHEMICAL SOCIETIES

WP on Nuclear and Radiochemistry

The following is a copy of the Mini-minutes of the meeting held on Monday 30th August 2004 and Thursday 2nd September at EUROGRESS, Aachen, Germany (in parallel to NRC6 Congress)

Those present: Prof. Mauro Bonardi (Italy), Prof. Dr. Heinz Gaeggeler (Switzerland), Dr. Xiaolin Hou (Denmark), Dr. Jan John (Czech Republic), Ir. Zvonimir I. Kolar, MSc (The Netherlands), Dr. Jukka Lehto (Finland), Prof. R. Michel (Germany), Dr. Panagiotis Misaelides (Greece), Prof. Jerzy Narbutt (Poland), Prof. Gunnar Skarnemark (Sweden), Prof. Turan Unak (Turkey), Dr. Árpád Vincze (Hungary) and Dr. Anthony Ware (UK, Sec/Chair).

Apologies were received from Dr Isabel Santos (Portugal), Prof. Eric Simoni (France), Prof. Per Hoff (Norway, Invited member) & Dr. Dusan Razem (Croatia, Observer).

Those not present: Prof. Alexander Chekmarev (Russia)

1. All members briefly introduced themselves and A. Ware presented apologies.
2. The meeting agreed to the Agenda as circulated.
3. The minutes of the previous meeting were approved.
4. Review of matters arising:

National Contact Points for EURATOM. The extensive efforts undertaken in the field of "Training & Education in the field of Radiochemistry" (RC T&E) since the end of 2002 have resulted in little progress. Other available programmes, e.g. Marie Curie grants, do not meet the needs of the WP at the present time. It was agreed to contact NCPs (National Contact Points) for EURATOM and others to pursue the possibility of including RC T&E into the later stages of FP6 or FP7.

FECS European Network for Chemistry. Contact will be maintained with the FECS European Network for Chemistry (ENC) Chemistry Education & Training in Europe

(www.chemsoc.org/networks/enc/education.htm).

IAEA activities: The IAEA report on development of distant learning modules in nuclear and radiochemistry, produced after an experts meeting that took place at the MARC 2003 conference, may be requested from Dr. Matthias Rossbach (m.rossbach@iaea.org). In the following discussion, it was agreed that everyone who has any information on NRC courses available on the web will send the data to J. John who will summarise and distribute it to all the WP

European Nuclear Engineering Network (ENEN). See 4.1. above. ENEN may serve rather as an example of how to organise our activities than to be considered a potential partner for pursuing RC T&E.

10 year Conference/Symposium calendar. A program of radiochemistry and nuclear chemistry (and related) conferences was discussed, several changes were made on-site, any other changes should be reported ASAP to J. John or A. Ware. After revision, the Calendar will be published on the web.

Website for Radiochemistry in Europe. A. Ware reviewed the use of the WP web site at

<http://www.chemsoc.org/networks/enc/fecs/fecsradiochemistry.htm> (Note that FECS has an URL hence the WP webpage can be found at www.fecs-chemistry/nuclear).

Maximum efforts should be done to keep the web site up-to-date. All WP members may supply links to their national divisions or other useful sites.

1st FECS European Chemistry Congress. J. John and A. Ware informed the WP that the preliminary programme recommended a Symposium on "Hot Topics in Nuclear- and Radiochemistry". J. John and A. Ware will continue their work in the Scientific and Organising Committees, respectively.

EU lunchtime seminars. Item not discussed.

Internet-based conferences. Item not discussed.

5. FECS lectureship. The WP will support the application of the Nuclear Chemistry Group of the Czech Chemical Society for a FECS lecture to take place during the 15th Radiochemical Conference, Czech Republic, 2006.
6. FECS sponsorship of future events. FECS sponsorship will be sought for Radchem 2006 (Czech Republic, 2006).
7. Secretary and Chair for 2004. The elections will be postponed till the final decision on the FECS legal status is made. In parallel with the elections, the aims of the WP and the form of its work will be re-defined. For the transition period, the WP will be organised by A. Ware, S. Jerome (Group Head Radioactivity, NPL, UK) and J. John under the leadership of A. Ware.
8. Presentation on new IUPAC Project # 2003-015-2-500 on: "Terminology, quantities and units concerning production and applications of radionuclides in radiopharmaceutical and radioanalytical chemistry". M. Bonardi presented this new IUPAC project to the meeting.
9. Other business. T. Unak informed meeting of progress on the formation of INCS, on the progress of preparation of the 1st International Nuclear Chemistry Congress (INCC), Kusadasi, Turkey, May 22-29 2005
10. Date and Venue for next meeting. The invitation to hold the meeting during the 1st INCC was discussed together with other options (London). The decision was postponed till the situation with FECS transition will be clarified.

Contact: Chair/Sec Dr Tony Ware (e-mail: tonyware@compuserve.com)

FECS General Assembly 14/15 October

As indicated in the Editorial the GA agreed to establish FECS to as an "Association Internationale Sans But Lucratif" in Belgium with a change of name to **European Association for Chemistry and Molecular Sciences (EuCheMS)**. The legal status will require EuCheMS to have an address, telephone number and a

Bank Account. The office will be based at the CEFIC headquarters in Brussels. The legal status and bank account will enable the Association to receive funds directly. This is of particular importance with regard to acceptance of funds from the European Commissions FP6 and future programmes.

•LABORATORY PROFILE

No profile has been offered for this issue.

• CONFERENCE REPORTS

None provided.

• CONFERENCE AND WORKSHOP DETAILS

15th Conference on Radionuclide Metrology and its Applications - 2005

The International Committee for Radionuclide Metrology (ICRM) is pleased to announce that its next conference will be held at Oxford University, Oxford, England, September 5 – 9, 2005.

The goal of ICRM 2005 is to provide an opportunity for the exchange of information on techniques and applications of radionuclide metrology, and to encourage international co-operation in this field. This biennial conference was most recently held in 2003 at the National University of Ireland, Dublin (see Proc. Conf. on Radionuclide Metrology and its Applications, ICRM'2003, *Appl. Radiat. Isot.* 60(2-4), 119–620, 2004).

Conference topics will include:

Aspects of international metrology, Radionuclide metrology techniques, Liquid scintillation counting techniques, Source preparation, Measurement standards and reference materials, Alpha-particle spectrometry, Beta-particle spectrometry, Gamma-ray spectrometry, Nuclear decay data, Life Sciences and Low-level measurements.

7th International Conference Actinides 2005

Conference to be held 4th – 8th July in Oxford, England. This conference brings together researchers in the physics and chemistry of the actinides and superheavy elements. Topics will include actinide materials science; fundamental chemistry and physics; environmental science and nuclear fuel processing. The conference will comprise plenary lectures across all these disciplines given by leaders in the field, plus invited and contributed presentations, the latter in both oral and poster formats.

NAMLS-8

The Eighth International Conference on Nuclear Analytical Methods in the Life Sciences (NAMLS-8) will take place in Rio de Janeiro, Brazil, from 17-22 April 2005.

Conference website: www.cena.usp.br/namls8

Conference e-mail: namls8@cena.usp.br

General Chair: Elisabete De Nadai Fernandes, CENA-USP, Piracicaba, Brazil

Deadline for abstracts: 2004 November 1

Please visit the above-mentioned website for pre-registration and for additional information about the conference. This announcement was issued on behalf of the NAMLS International Committee (NAMLS-IC), which is the convenor of the NAMLS series of conferences.

(Jan Kucera, NAMLS-IC Chair & Robert Parr, NAMLS-IC Secretary Website: <http://members.aon.at/namls/>)

Nuclear and Radiochemistry Symposium (NUCAR 2005)

NUCAR 2005 will be held at Amritsar, India during March 15-18, 2005. For details of NUCAR 2005 please log onto: www.barc.ernet.in/webpages/symposium/nucar05 and www.iancas.org

Convener, NUCAR 2005 Dr. Keshav Chander **Email: keshav@magnum.barc.ernet.in** Secretary, NUCAR 2005, Dr. Raghunath Acharya **Email: nucar05@apsara.barc.ernet.in**

•NEWS FROM THE INTERNET

Temporal positions for experienced researchers in radiopharmaceutical chemistry.

Institute of Nuclear Chemistry and Technology (ICHTJ) in Warsaw, Poland, announces recruitment for temporal positions for scientists - experts in

radiopharmaceutical chemistry. The positions will be founded by the European Commission within the Programme Marie Curie Host Fellowships for Transfer of Knowledge (ToK) in the frame of the project Chemical Studies for Design and Production of New

Radiopharmaceuticals (POL-RAD-PHARM, EC grant No 509224). The objective of the project is to introduce new aspects of radiopharmaceutical sciences to the ICHTJ staff by leading European researchers.

Contact: Jerzy Narbutt, Professor Head, Department of Radiochemistry, Institute of Nuclear Chemistry and Technology 03-195 Warsaw, Poland.
Phone: +48 22 811 2735 Fax: +48 22 811 1532

New postdoc position at LANL

A postdoctoral position is now available at Los Alamos National Laboratory in a project that spans the Chemistry and Bioscience Divisions. The project includes areas of research in separations chemistry of Actinium and daughters, chelation chemistry of Actinium and daughters, conjugation chemistry of chelating groups with peptides and proteins, and radiation cell biology. The candidate must have experience in at least two of these areas of interest. The candidate will be expected to learn techniques in all of the areas of research listed. The selected candidate will work with several members of the technical staff to develop a new method of conjugating radioisotopes to targeting molecules, test the stability of those constructs, and determine the biologic activity in vitro. For all postdoctoral appointments, the candidate must be within 5 years of completion of PhD at time of being proposed for review, or will have completed all PhD requirements by commencement of appointment. Candidates may be considered for a Director's Fellowship and outstanding candidates may be considered for the prestigious J. Robert Oppenheimer or Frederick Reines Fellowships.

For more information on the project, please contact Robert Atcher, Ph.D. at ratcher@lanl.gov or 505 667 0585. For more information on the postdoc program at LANL, please check out the LANL web pages at <http://www.lanl.gov> or the Postdoctoral Program web pages at <http://www.lanl.gov/science/postdocs/index.shtml>, or write to us at postdoc-info@lanl.gov. **Contact: Robert Atcher, Ph.D. Program Manager**

Senior Scientist Birchwood, Warrington, Cheshire, UK

NNC Holdings Limited (NNC) is a leading international and independent engineering consultancy, dedicated to adding value to clients' businesses through the provision of leading-edge professional resources. Within our Solutions-NNC Business Group which provides integrated solutions to the Radiological, Environmental and Technology markets we have the NIRAS Analytical Services laboratory, which is now, one of the largest commercial radioanalytical laboratories in the UK. We are seeking an additional senior scientist to join our successful team. The senior scientist post combines project management of routine commercial radiochemical analysis with actual hands-on laboratory analysis. The post holder will also be involved in preparing manuals, validation reports, uncertainty measurements,

validating and extending the scope of methods. The senior scientist's duties include discussion of analysis requirements

with clients, technical input into quotations and preparation of analysis reports.

The successful candidate will therefore have a good understanding of radiochemistry techniques, be educated to degree level (or equivalent experience), good laboratory skills and have previous experience of working within an analysis quality system such as BS EN ISO/IEC 17025. Applicants should be able to work on their own initiative, be able to interface with clients and have organisation skills to manage small projects to completion.

If you would like to be considered for this position, please send a copy of your CV, indicating your salary requirements, to Kathy Ross, NNC Ltd, Booths Hall, Chelford Road, Knutsford, Cheshire WA16 8QZ. Tel: 01565 843602.

e-mail: Kathy.ross@nnc.co.uk

For a little more background, see

<http://www.niras.co.uk>

HEVESY MEDAL 2004

Many of the distinguished scientists who have been honoured by this award have worked on topics that fall within the scope of NAMLS. Three of the recent recipients of the award are current members of the NAMLS International Committee. The 2002 Hevesy Medal Award was presented at the NAMLS-7 Conference held in Antalya, Turkey. More information on this medal, including a complete list of all medallists from 1968 to 2004, is given on the NAMLS International website.

In case you may not otherwise have heard, it was announced in May of this year that Professor Attila VÉRTES of the Department of Nuclear Chemistry, Eötvös University, Budapest, Hungary has been selected to receive the Hevesy Medal Award 2004. Some information on the medallist may be found at

<http://www.chem.elte.hu/departments/magkem/vertes.htm>

New Book – “Radioactivity – Radionuclides – Radiation”

This book is written by Joseph Magill and Jean Galy of the European Institute for Transuranium Elements and published by Springer. It includes a foldout Karlsruhe Chart of the Nuclides and a CD-ROM.

The authors state that it is suitable for a general audience interested in topical environmental and human health radiological issues such as radiation exposure in aircraft, food sterilisation, nuclear medicine, radon gas, radiation dispersion devices (dirty bombs) etc. For further details and purchase contact Springer Customer Service, Haberstr. 7, 69126 Heidelberg, Germany.

Fax: +49 6221 345 4229 e-mailorders.books@springer-sbm.com

Recent IAEA Reports & CD-ROMS

The list of IAEA reports and CD-ROMs on the NAMLIS International Website has recently been updated by inclusion of the following:

Organisational, Reporting and Certification Aspects of Proficiency Testing Comprising documentation and software presented at an IAEA Interregional Training Course held in Seibersdorf, Austria, 8-19 March 2004 CD-ROM edition (available cost free on request from m.rossbach@iaea.org)

Isotopic and Nuclear Analytical Techniques for Health and Environment comprising unedited papers presented at the international conference held in Vienna, Austria, 10-13 June 2003. IAEA-CSP-22/CD, ISBN 92-0-100504-0, ISSN 1562-4153, April 2004. CD-ROM

edition (available cost free on request from

m.rossbach@iaea.org

Quantifying uncertainty in nuclear analytical measurements IAEA-TECDOC-1401, July 2004. This document contains an important chapter on "Uncertainty evaluation in instrumental and radio-chemical neutron activation analysis" by J. Kucera, P. Bode and V. Stepánek. The whole TECDOC may be downloaded as a PDF file (approx. 2 MB) from the IAEA's website, or directly via the following link (hint: use a right mouse click to save it to your hard disk) http://www-pub.iaea.org/MTCD/publications/PDF/te_1401_web.pdf

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· AND FINALLY

Please send information for inclusion in future issues to your Liaison Person or myself Dr Tony Ware, Avoncastle, South Lane, Sutton Valence, Maidstone, Kent ME17 3AZ, UK. Tel: +44 (0)1622 842627, e-mail: tonyware@compuserve.com

IMPORTANT PLEASE send me your e-mail address so that I can inform you when websites have been updated and any other news of immediate interest.

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