



## Association of **U**niversity **R**adiation **P**rotection **O**fficers

**April 2015**

**AURPO NEWSLETTER**

**Editor T.J.Moseley**

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## EDITOR'S INTRODUCTION

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Welcome to the April edition of the Newsletter.

**PS** Don't forget to renew your subscription –see relevant subscription renewal forms from p 14.

A bit short on newsworthy items this Spring – so just a short edition. A lot of HPA stuff seems to have disappeared along with EA RSR material all now hidden in the .gov.uk webpages or taken down completely.

I have been advised to publish a disclaimer with the newsletter in future although I stand by everything printed! Our disclaimer -

*“While great care is taken to provide accurate and helpful information at the time of writing, neither the authors nor the publishers make any warranty, for errors or omissions. Readers are expected to check all essential information and to seek expert advice as appropriate”.*

Deadline for summer edition is end of June.

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## **AURPO Certificate of Professional Development in Radiation Protection**

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This course has been developed by the Scottish Centre for Occupational Safety and Health (SCOSH, University of Strathclyde) and the Association of University Radiation Protection Officers (AURPO) in collaboration with the Health and Safety Executive (HSE) and RPA 2000.

The aim of the course is to assist those people wishing to attain greater knowledge and understanding of radiation protection matters and is a good grounding for a university RPO. The course is benchmarked against the HSE criteria for the 'Core of Knowledge' required for a Radiation Protection Adviser and the EA/SEPA syllabus for RWA accreditation.

- 9 month programme commencing September 2015
- Study by distance learning with online tutor support
- Available to those with relevant qualifications and work experience currently working in radiation protection or related fields.

Deadline for 2015/2016 course is 28<sup>th</sup> August 2015. Course commences 14<sup>th</sup> September 2015.

Course Fees for 2015/16 are £1700

For further information and an application form:

<http://www.strath.ac.uk/cll/cpd/healthsafety/radiationprotection>

or

Tel 0141 548 4828 email: [scosh@strath.ac.uk](mailto:scosh@strath.ac.uk)

## PRESIDENT'S REPORT

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The last time I wrote a report for the newsletter was just before Christmas, and time seems to have flown by. Since then, some of our members have been very busy with arrangements for our Annual Conference, Exhibition and Annual General Meeting in September; which is our most important event of the year. Very shortly, you will receive the invitation and registration form for this event, which is being organised by the London and South East Regional AURPO Group (L&SE AURPO). In an effort to move with the times, you will receive these by email, and the registration form can be completed and returned electronically. This would make things easier for the organisers, but for those who still prefer to put pen to paper, the conventional paper versions will also be sent out. So the choice is yours, but you don't need to do both! Gillian Glazier is leading the conference organising committee and you will find more information from her later in this newsletter.

The conference registration form includes the chance to renew your membership (which is due in July). Even if you cannot make it to the conference this year, you can still renew your membership using this form.

Looking to the future, Julie Turner has been negotiating contracts and making preliminary arrangements for the 2016 conference in Loughborough.

Please remember that there are 5 regional AURPO groups, and if you are not in touch with one of them, you can find the contact person for each of the groups on our website (<http://www.aurpo.org.uk/>) under the "About" tab. These are informal groups that meet a couple of times a year which give you the opportunity to get to know other members in your area.

The association has now become a member of the Foundation for Science & Technology (FST). They have a very interesting website ([www.foundation.org.uk](http://www.foundation.org.uk)) and we feel that this will give us, and you, access to some very useful information.

Scientific & Technical Committee (STC) have also been busy, and in addition to putting together a very impressive looking scientific programme for the conference, they are continuing to work on reviewing a number of guidance documents covering uranium and thorium, environmental permitting and outside workers. Mark Bradley has joined the outside workers sub-group of the BSS Implementation - Occupational Exposures Working Group.

Under the leadership of Pete Cole and Christine Edwards a sub-group of nine AURPO members has been preparing a paper entitled "The Advantages of Creating a Positive Radiation Protection Safety Culture in the Higher Education and Research Sectors". This work is in response to an IRPA initiative to look at radiation protection culture in different sectors. It will be presented at the SRP Conference in May and submitted to the Journal of Radiological Protection for publication.

As I started this item remarking on how quickly time seems to be flying by, now may be a good time for you to think about whether you might like to become more involved in the

organisation and work of AURPO. Some of the current Executive Committee and STC have been working for the association for many years, and are reaching a stage when they may be thinking of retiring or have reached a level of seniority in their “day jobs” that does not allow them to devote time to association business. While experience is always valuable, we also need an injection of new blood. The AGM will be in September so you have a few months to consider how you might become involved, and I would be happy to talk to anybody who would like to know more about what might be involved.

It only remains for me now to thank Trevor Moseley, our Newsletter Editor, for all the effort he puts into producing this publication, (including having to remind people about the reports that they have promised him).

Best regards, and don't forget to put the conference dates (8<sup>th</sup> – 9<sup>th</sup> September) in your calendars.

**John Makepeace**  
**07/04/2015**

## **MEMBERSHIP NEWS**

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Welcome to the following new members of the Association who have joined this year to date:-

Paul Davies	University of Liverpool
John Ryan	University of Liverpool
Gillian Gunning	Trinity College Dublin
Kieran White	Huntingdon Life Sciences
Akile Binesh	Institute of Cancer Research

NB Our Membership Secretary is Sonia Nuttall ( [somchairuk1@hotmail.co.uk](mailto:somchairuk1@hotmail.co.uk) )

# **Pre-Announcement AURPO Annual Conference 2015**

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You will shortly be receiving your invitation to the next AURPO Conference which will be held on Tuesday 8<sup>th</sup> and Wednesday 9<sup>th</sup> September 2015 at the View Hotel, Eastbourne and further details of the venue can be found at:-

<http://www.theviewhoteleastbourne.com>

The Scientific Programme will cover the following topics:

Tuesday afternoon will cover: special form sealed sources, XRF issues, role of appointed doctors, visiting other radiation employers and practical radiation shielding.

Wednesday we are looking at: recent ICRP developments, biological effects, direct ion storage dosimetry, programmable electronic systems, ONR transport inspections, BSS update, safety of consumer laser products, RF and static magnetic fields and UV hazards.

Full details will be available soon on the website.

The Social programme will be as follows:

On Tuesday Evening, a Beach Party themed Buffet where you will get plenty of time to meet new colleagues and old friends. Fancy dress is positively encouraged and can be simple or done with further imagination! Not everyone is a budding Carmen Miranda so, if you are out of your comfort zone, please come as you are. You will find a warm welcome and dancing will be to Tropical Heatwave.

On Wednesday Evening we will be holding our Conference Dinner at the Sovereign Harbour Yacht Club and this is strictly a formal affair, so gentlemen lounge suits at least please; as the ladies may be relied on to shine in their usual way on these occasions.

Information on the AGM and Exhibition will be announced as soon as it has been finalised.

**Gillian Glazier, on behalf of L&SEURPO**

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## **Note from the Treasurer 1/04/2015**

Just a reminder that today is the start of a new Subscription year for Affiliate members. I have been in contact with those companies who do not usually exhibit with us at our annual conference. If, however, you are not one of these and you have not received a message from me, please download the 2015 – 16 Affiliate subs form from the end of the newsletter.

Most personal members have paid their subs for this year, 2014 -15, but there are quite a few who have yet to do so. There is a form for you at the end of the newsletter as well, so please catch up. If you are not sure if you have paid or not, please don't hesitate to contact me.

[treasurer@aurpo.org.uk](mailto:treasurer@aurpo.org.uk)

Thank you.

**Gillian**

## HSE News

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Latest position regarding the revision of radiation protection directives including BSS and outside workers directives can be found at –

<http://www.hse.gov.uk/aboutus/europe/euronews/dossiers/radiationprotect.htm>

### ***When do I need to notify HSE?***

If you intend to start work with ionising radiation for the first time you need to let HSE know **at least 28 days before** you start work. This is a requirement of the [Ionising Radiations Regulations 1999 \(IRR99\)](#) . The Regulations may also require additional notifications for certain occurrences and work practices, such as carrying out site radiography.

### **Starting work with ionising radiation for the first time**

If your work falls into any of the categories below, please click on the link to find out what you need to notify and to take you to the reporting form.

- If you are going to start work with ionising radiation for the first time, you are required to notify HSE at least 28 days before commencing work, unless your work falls into an exempt category. Details of the work that you do not need to tell HSE about can be found here (see [Work not required to be notified](#) .

Use form [IRR6 - Notification of ionising radiation activities](#) to notify HSE that you intend to start work with ionising radiation

### **Notifying changes to a previous notification**

- Radiation employers need to inform HSE when the details of a previous notification are no longer correct, such as when:
  - the employer's details or those of their premises change
  - the source category changes
  - the source is to be used at a different premises

For example, if an original notification covered the use of an X-ray set but you decide to start using radioactive materials, you would need to notify this change to HSE.

Changes to a previous notification - use form [IRR6 - Notification of ionising radiation activities](#)

- Planning to undertake site radiography Site radiography contractors need to give HSE at least seven days advance notification of the proposed work. For further information on site radiography, click her to visit the industrial radiography web pages.

Site radiography, use form [IRR3 - Notification of intention to carry out site radiography](#)

## **Other notifications required under IRR99**

Other reasons you may need to notify HSE under the IRR99 include:

- Nursing homes etc, when a patient has been given a radioactive medicinal product and are staying in, for example, a nursing home it is sufficient if notification is made by the nursing home as soon as practicable before the first instance of a patient arriving there.
- applications for individual prior authorisation to use electrical equipment intended to produce X-rays or use accelerators (other than electron microscopes) (see regulation 5)
- where a radiation employer suspects or has been informed that an overexposure has occurred (see regulation 25)
- notifications of certain occurrences such as losses, spillages or releases of certain quantities of radioactive substances (see regulation 30)
- where an employer suspects or has been informed that a person, while undergoing a medical exposure, was exposed to ionising radiation to a much greater extent than intended, as the result of a malfunction or defect in radiation equipment (see regulation 32(6))
- If you need to notify HSE or gain authorisation for any of these reasons please e-mail: [irrnot@hse.gsi.gov.uk](mailto:irrnot@hse.gsi.gov.uk)

*(The above are extracts from the HSE's website on work with ionising radiations – check out - <http://www.hse.gov.uk/radiation/ionising/index.htm> for further information)*

## **Vet in court over X-ray of employee's foot**

A director of a vet practice in Maidstone has been given a conditional discharge for allowing an employee to X-ray her own foot after a horse stamped on it.

Maidstone Magistrates heard (22 Jan) that the employee, a 25 year-old vet and equine intern at Pet Emergency Treatment Services Ltd, Bearsted Road, Maidstone, was afraid the foot was broken and she might be unable to do that evening's on-call duty.

As a result, she rang a practice director, John Kenward. As they were both concerned she could be held up in hospital A&E, Mr Kenward suggested she use the in-house X-ray kit. He gave her the settings to use and she carried out the test, which showed no break so she continued to work as normal.

Another director, who acts as Radiation Protection Supervisor, later noticed a human image on the digital processor. This led him to notify other practice board members of his intention to interview staff about the suspected breach of site radiation safety policy. He was immediately told by Mr Kenward not to discipline the vet intern as he had suggested that she use the X-ray.

As a result the Health and Safety Executive was contacted and an investigation confirmed a breach of radiation regulations.

Although the vet intern, from Maidstone, was the only person present during the X-ray exposure, she did not wear a personal dosimeter during the procedure.

However, HSE told the court that Mr Kenward was fully aware that the rules of the practice clearly stated nobody should be placed within the beam of the X-ray machine.

John Kenward, of Jubilee Corner, Ulcombe, Maidstone, Kent, was ordered to pay £1,296 in costs after admitting a breach of the Health and Safety at Work etc Act 1974.

After the hearing, HSE inspector Rob Hassell said:

“Any vet practice using ionising radiation for medical exposures must ensure that the X-ray equipment is properly maintained and that the requirements of the Ionising Radiations Regulations are complied with. The view of HSE and the Department of Health is that it is highly unlikely that all these conditions can be met by a veterinary practice.

“It follows therefore that X-rays must not be taken of human beings at practices. We are aware that the X-raying of people may not be unique to this particular practice so I hope others will take note that HSE is prepared to prosecute if such breaches come to light.”

## EA, DEFRA & DECC MATTERS

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### **Latest RIFE Report published**

Assessment of radioactivity in food and the environment and the public's exposure to radiation during 2013 has been issued in the latest RIFE Report No.19 see –

<https://www.gov.uk/government/publications/radioactivity-in-food-and-the-environment-2013-rife-19>

### **NORM Waste**

New guidance has been issued related to the accumulation and storage of radioactive waste from NORM industrial activity – oil and gas production. See –

<https://www.gov.uk/government/publications/sr2014-no-4-accumulation-and-disposal-of-radioactive-waste>

### **Regulator's Code**

The [Regulators' Code](#) provides a framework for how regulators should engage with those they regulate.

The Environment Agency aims to provide its regulated customers with an efficient and professional service to meet the requirements of the Regulators' Code.

<https://www.gov.uk/government/publications/regulators-code-and-the-environment-agency>

## NEWS FROM AFFILIATES

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### NEWS from ACB - Why is Ra-226 still an issue?

With a half-life of 1600 years, Ra-226 painted items from the 1900s are effectively just as active today as the day they were painted; the loss of radio-luminescence is typically due to the breakdown of the crystalline structure of zinc sulfide under continuous radiation bombardment. Although mostly used for illuminating dials, Ra-226 was also used to make radium-lined water holders, radium blankets, radium-bearing elixirs and medical instruments. Many of these items survived to this day, and turn up in the most unlikely places such as scrapyards, antiques dealerships, and basements.



There is a great deal of legacy material remaining, sometimes concentrated into particular sites. The most prominent case is Dalgety Bay, Fife, where 800 WW2 aircraft were partially burnt and then dumped in the sea. Many of these aircraft contained multiple radium-painted dials, which were merely damaged rather than totally incinerated. Over a thousand sources have been recovered from the beaches of the area so far, and a further 2500 identified.

In this particular case, by 2018, the MoD plans to search and recover all sources from the beach in a £10million clean-up campaign and construct a seawall to prevent the ingress of further contamination. Although not a complete solution, it will allow the lifting of the cordon currently placed on the beach.

### ACB can help with Radium disposal

**ACB has years of experience with handling radioactive materials safely and offers a bespoke service appropriate to each individual client.**

Radium has always created an issue as far as disposal is concerned. LLWR are currently not accepting radium in their LLW receipts and the alpha content is proving too high for the UK's incinerators. However, all is not lost. ACB does have routes for certain radium wastes, in particular dials and contaminated items. Please contact us for further details – [info@acb.co.uk](mailto:info@acb.co.uk)

#### ACB Services

- Facilitate uplift and removal of contaminated goods to a radioactive Permitted site
- Provision of appropriate packaging
- Transport of contaminated goods in line with transport regulations
- Management of regulators
- Effective disposal
- Highly experienced and qualified management and disposal teams
- Wealth of knowledge of legislation and problem solving
- In-house, full capabilities to effectively deal with the problem

## NEWS FROM PYCKO SCIENTIFIC



### The Pycko Tritium Bubbler

For those not wanting to cobble something together themselves, Bill has come up with the 'Pycko Tritium Bubbler' which collects HTO from the air when it passes through the liquid which can then be assessed by liquid scintillation counting.

From a known flow-rate, time of sampling and having assessed the activity of the liquid, it is easy to calculate the tritium in air concentration.

Further information from - [bill@pycko.co.uk](mailto:bill@pycko.co.uk)

## News from Tracerco

### DoseVision™ is the latest innovation from Tracerco Radiation Monitors

With the recent launch of our [PED Family](#), Tracerco is also introducing a brand new version of our popular [DoseVision™](#) software. DoseVision™ is PC interface for the PED Family and has been specifically designed to be simple, interactive and easy to use. DoseVision™ can make managing your records really simple...here are a few reasons how...

#### Manage Users

You can use DoseVision™ to add, edit and delete users - meaning you can easily manage your workforce.

#### View Dose Data

You can easily view data, generate and print reports and graphs for dose history at the click of a button.

#### Password Protection

Are you worried about your workers deleting valuable dose data? DoseVision™ can help with a password protection option to stop data being deleted and alarm levels being changed

#### GPS Data Logging

With the new [PED+](#), DoseVision™ has a map view for GPS logging of data.

Contact - [radiation.monitors@tracerco.com](mailto:radiation.monitors@tracerco.com) for further information.

## NEWS FROM PHE (HPA- Radiation Protection Division)

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Not much to be found on this occasion. Perhaps the news has been buried in a deep repository or they've stopped publishing research reports, or they are no longer freely available or they are just too hard to find now that everything has migrated to the dark recesses of the web that is gov.uk !

Just one item of interest has surfaced and that is:

Recovering from a Chemical, Biological or Radiation Incident –recovery factsheet was issued on 25/02/2015 see-

<https://www.gov.uk/government/publications/chemical-and-radiation-incidents-recovery-factsheet>

Associated with this is an e-learning module –

<https://www.gov.uk/government/publications/chemical-and-radiation-incidents-recovery-handbooks-and-tools>

## BOOKS AND PUBLICATIONS

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### New and revised standards

IEC/TR 62461 ed2.0 (2015-01) Radiation protection instrumentation - Determination of uncertainty in measurement

### ICRP

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

Radiological Protection against Radon Exposure, ICRP Publication 126, Ann. ICRP 43(3), 2014: J-F. Lecomte, S. Solomon, J. Takala, T. Jung, P. Strand, C. Murith, S. Kiselev, W. Zhuo, F. Shannoun, A. Janssens

### ICNIRP

<http://www.icnirp.org>

### Health Physics 2015

#### January issue includes:

Absence of Internal Radiation Contamination by Radioactive Cesium among Children Affected by the Fukushima Daiichi Nuclear Power Plant Disaster: Tsubokura, Masaharu; Kato, Shigeaki; Nomura, Shuhei

#### February issue includes:

38th Lauriston S. Taylor Lecture: On the Shoulders of Giants - Radiation Protection Over 50 Years: Mettler, Fred A. Jr

Radiation Safety of Sealed Radioactive Sources: Pryor, Kathryn H

#### March issue includes:

Neutron Radiation Measurements on Several International Flights: Poje, Marina; Vukovic, Branko; Radolic, Vanja

A Public Health Perspective on the U.S. Response to the Fukushima Radiological Emergency: Whitcomb, Robert C. Jr; Ansari, Armin J.; Buzzell, Jennifer J.

### IAEA Safety Standards

Management of Disused Sealed Radioactive Sources, IAEA Nuclear Energy Series No. NW-T-1.3.  
<http://www-pub.iaea.org/books/IAEABooks/10582/Management-of-Disused-Sealed-Radioactive-Sources>

Naturally Occurring Radioactive Material (NORM VII): Proceedings of an International Symposium, Beijing, China 22-26 April 2013. <http://www-pub.iaea.org/books/IAEABooks/10675/Naturally-Occurring-Radioactive-Material-NORM-VII-Proceedings-of-an-International-Symposium-Beijing-China-22-26-April-2013>

## **Policy and Strategies for Environmental Remediation**

### **IAEA Nuclear Energy Series No. NW-G-3.1**

To assure the safe, technically optimal and cost effective management of remediation situations, appropriate policies and strategies are required. This publication describes the goals, time scales, efforts necessary for implementation, cost allocation and the different interests of concerned parties with regard to environmental remediation works. It clarifies the differences between a policy and a strategy, and provides advice to Member States on the typical composition and formulation of such documents. Along with previously published IAEA safety publications on environmental remediation, this publication will help national authorities to recognize the necessity for including environmental remediation as a required component in the planning and execution of nuclear related initiatives. Recent events have shown that the existence of an established policy and strategies on environmental remediation prior to nuclear and/or radiological accidents can be of fundamental importance, as it will among other things facilitate the dialogue to be established with different affected parties.

[STI/PUB/1658, 32 pp., 0 figs.; 2015; ISBN: 978-92-0-103314-7, English, 20.00 Euro](#)

## **Nuclear Medicine Physics: A Handbook for Teachers and Students**

This publication provides the basis for the education of medical physicists initiating their university studies in the field of nuclear medicine. The handbook includes 20 chapters and covers topics relevant to nuclear medicine physics, including basic physics for nuclear medicine, radionuclide production, imaging and non-imaging detectors, quantitative nuclear medicine, internal dosimetry in clinical practice and radionuclide therapy. It provides, in the form of a syllabus, a comprehensive overview of the basic medical physics knowledge required for the practice of medical physics in modern nuclear medicine.

[STI/PUB/1617, 736 pp., 237 figs; 2015; ISBN: 978-92-0-143810-2, English, 105.00 Euro](#)

Electronic version can be found:

<http://www-pub.iaea.org/books/IAEABooks/10368/Nuclear-Medicine-Physics-A-Handbook-for-Teachers-and-Students>

## **Transport News**

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Links to all the information you should need can be found on this ONR webpage -

<http://www.onr.org.uk/transport/index.htm>

You will find links to all transport regulations and guidance, national and international, here. All the documents linked to are freely downloadable.

If f you have a transport accident involving radioactive material there is now a special form for you to use to report it to ONR – [INF1](#) –incident notification form.

There is currently a review of IAEA transport regulations and guidance –input could have been made to ONR by the end of March but I did not see any information relating to this until now. ONR are holding a stakeholder meeting on this review in Bootle on 29<sup>th</sup> April. There may still be time to attend if you are interested, contact - [onr.international@onr.gsi.gov.uk](mailto:onr.international@onr.gsi.gov.uk)

## TRAINING COURSES

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### Radiation Protection Training at PHE Leeds

If you are looking for radiation safety training, you may wish to know that details of our 2015 courses are now available on-line; click [here](#) for further details. We have two new courses in our schedule for next year: [“The Transport of Radioactive Material”](#) and [“Radiation Awareness – NORM”](#). Click on the titles to go straight to our website for further details.

Our courses are designed to help employers meet their obligations under The Ionising Radiations Regulations 1999 and the various Radioactive Substances Regulations (EPR in England / Wales, and RSA in Scotland). We offer courses for managers, a range of courses for Radiation Protection Supervisors, and various awareness courses for others 'engaged in work' with radiation. If you would like to know more about the regulatory requirements, please call or email and any of our RPAs will be happy to advise.

Anne Cann, CRCE Leeds Training Administrator,  
0113 267 9041 [anne.cann@phe.gov.uk](mailto:anne.cann@phe.gov.uk)

### BIR Functional imaging in radiotherapy

10 July 2015, Charles Darwin House, London

Further information can be found

here: <https://membersarea.bir.org.uk/multievents/displayEvent.asp?Type=Full&Code=5242>

### BIR Annual Congress 2015

4 - 5 November 2015

Venue: Royal College of General Practitioners, 30 Euston Square, London, NW1 2FB

Divided into two parallel sessions over 2 days, topics include radiation protection issues in molecular imaging and radiotherapy, clinical hybrid imaging in oncology, primers for the non-specialist, emergency radiology—advances in trauma imaging and essentials for the radiology trainee.

Our Annual Congress provides an open and relaxed environment for delegates to share and exchange ideas and experiences, visit our industry exhibition, showcase their research via our interactive e-poster sessions, and network both during the day and at our evening networking events.

You could be part of our Annual Congress by [submitting an abstract for our e-poster exhibition](#)

[Register online](#)

### Stereotactic ablative radiotherapy (SABR)

19–20 November 2015, Riddel Hall, Queen's University Belfast

Further information can be found

here: <https://membersarea.bir.org.uk/multievents/displayEvent.asp?Type=Full&Code=5256>



**Association of  
UNIVERSITY  
RADIATION  
PROTECTION  
OFFICERS**

## **AURPO Membership Subscription Form 2015 - 16**

The annual subscription of £35 (£10 for retired members) to the Association is due on the 1<sup>st</sup> July 2015. Members who attend the Annual Conference in September may pay the subscription fee at the time of registration.

Please fill in the form below. If paying by cheque make it payable to AURPO, and send it to me at the address below with a covering note. If paying by other way, *regardless of the method*, or not renewing your membership, please complete the form and **e-mail it back to me, copying it to membership@aurpo.org.uk**.

**NB.** Invoices will **not** be sent unless specifically requested. POs alone **are not** requests for an invoice and are considered for information only.

<b>I am paying by: (please ' X ')</b>		<i>For office use only</i>	
<b>Cheque Enclosed</b>		<b>Received</b>	
<b>BACS</b>		<b>Received</b>	
<b>Conference Form</b>		<b>Received</b>	
<b>Invoice Required</b>		<b>Number</b>	
<b>PO Number</b>			
<b>Receipt Required</b>		<b>Number</b>	
<b>I confirm my membership of IRPA through the Association</b>			
<i>I do not wish to renew my membership (please ' X ')</i>			
<b>Title</b>	<b>E-mail</b>		
<b>Name</b>			
<b>Address</b>			
<b>Phone</b>		<b>Fax</b>	
<b>Signed</b>		<b>Date</b>	

Please note that it is now a condition of membership that all subscriptions must be paid by 30<sup>th</sup> September, but unless paying via the Conference, please pay as early as possible, any time from now on.

Thank you  
**Gillian Glazier**  
Honorary Treasurer

*PTO for Bank details*

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Bank Name:               NATIONAL WESTMINSTER BANK

Bank Address:           Leeds City office

8 Park Row

Leeds, LS1 1QS

**Bank Sort Code       60-60-05**

**Bank Account No     98900846**

BIC    NWBK GB 2L

IBAN           GB37 NWBK 6060 0598 9008 46

**Please send the cheque or remittance advice to:-**

Mrs G.C.Glazier, Hon. Treasurer,  
21, Viewland Road, Plumstead, London, SE18 1PE  
treasurer@aurpo.org.uk



**Association of  
UNIVERSITY  
RADIATION  
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## **AURPO Affiliate Subscription Form 2015 - 16**

The annual subscription of **£150** to the Association is due on the **1<sup>st</sup> April 2015**. Exhibitors who attend the Annual Conference in September may pay the subscription fee at the time of registration.

Please fill in the form below. If paying by cheque make it payable to AURPO send it to me at the address below.

*Regardless of the method of payment, or you not renewing your affiliateship, please complete the form and **e-mail it back to myself and copy Sonia Nuttall** [membership@aurpo.org.uk](mailto:membership@aurpo.org.uk)*

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Please note that it is now a condition of membership that all subscriptions must be paid by **30<sup>th</sup> September**, but unless paying via the Conference, please pay as early as possible, any time from now on.

Thank you  
*Gillian Glazier*  
Honorary Treasurer

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