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

August 2019

AURPO NEWSLETTER

Editor M Gillatt

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EDITOR'S INTRODUCTION

Welcome to the August newsletter! Hopefully some of you are getting better weather than we are up north!!

It's a short one this time but you all deserve a little respite before the bumper Christmas edition ☺

Many thanks to our regular contributors who make the newsletter what it is, there may be a little surprise coming your way in Cardiff.

If anyone has any newsworthy items don't keep them to yourself – let me know and we can publish them in the newsletter. Special thanks this issue go to an anonymous contributor who provided a report on an incident involving a pre-clinical PET CT scanner. I'm sure this will be a great help to members. If anyone has any comments on this, please direct them to me and I can forward them on to the author.

The conference is fast approaching, don't forget to book on if you haven't already. The invitation is available on the AURPO website, where you can also find the booking form.

I am still searching for volunteers to report on the conference – if you are interested do get in touch…seriously, don't make me start pestering!

Millie Gillatt
University of Sheffield
Tel: 0114 2226190 **E-mail: m.gillatt@sheffield.ac.uk**

PS Don't forget to renew your subscription –see reminder from Treasurer. You can also update your contact details and updated email addresses via the AURPO Website – please check these are correct so we can keep in touch.

The next newsletter will land in December, if there is anything you would like to contribute or request, please get in touch by the end of October.

Spill Training Simulation Monitors

Don't forget your emergency training and contact me (m.gillatt@sheffield.ac.uk) to make use of our STS monitors and simulated spillage material – hire for just £100 (2 monitors) or £50 (one monitor) for up to 2 weeks.

AURPO Certificate of Professional Development in Radiation Protection

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) with assistance from the Health and Safety Executive (HSE) and RPA 2000.

The aim of the course is to help 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 2019
- 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 2019/2020 course is 26th August 2019. Course runs from 16th September 2019 to 29th May 2020.

Course Fees for 2019/20 are £2050. For further information and an application form see -

https://www.strath.ac.uk/studywithus/centreforlifelonglearning/safetyriskmanagement/radiationprotection/

or *Tel 0141 548 2116* *email: learn-cll@strath.ac.uk*

MEMBERSHIP / TREASURER NEWS

Dear Members,

AURPO would like to welcome the following new members who have joined the association since April:

Amber Gislason-Lee	Associate Member	A.Gislason-Lee@bradford.ac.uk
Amy Elliott	Associate - Strathclyde Course	amy.elliott@oncology.ox.ac.uk
Adam Swinburne	Full Member	adam.swinburne@northumbria.ac.uk
Cris Ardouin	Full Member	Cris.Ardouin@esr.cri.nz
Sheera Abdulla	Associate Member	S.Abdulla@exeter.ac.uk

Many thanks to those members who have already paid the 2019 subscription (from 1st July 2019 to 30th June 2020). This is due by 30th September 2019.
Any you need please don't hesitate to contact me on membership@aurpo.org.uk or treasurer@aurpo.org.uk.

Many thanks,
Julie Turner
Acting Treasurer & Membership Secretary

ACTING PRESIDENT'S REPORT

Since my last report, the Executive Committee (EC) have been busy reviewing and revising the Association's Constitution with a view to making it more robust. Changes that will be presented at the next AGM and via the website include a clarification of the membership of AURPO i.e. membership grades, eligibility, benefits, restrictions, and appeals against membership decisions; an improved procedure for nominations, elections, appointments and terms of office; and the addition of record-keeping requirements. I welcome members' input and comments on these changes. We have also produced a new Code of Professional and Ethical Conduct and a related Complaints and Disciplinary Procedure.

On 8th May, together with Jim Hunter (AURPO member of the Committee for Liaison with IRPA and Partner Societies – CLIPS), I attended a meeting of the Presidents of UK Partner Societies (PS) in London. This was a great chance to discuss areas of commonality and possibilities for closer collaboration between UK PS. Together with the implications of BREXIT on UK RP practices and how to respond to Government, we discussed co-operation on outreach projects, and agreed to a joint fund to promote the UK's involvement in international RP work-streams. This was supported by the Association's Executive Committee.

With the aim of re-investing in the membership and with a nod to succession planning, in addition to the Life Membership Award, the EC are in the process of developing a number of new awards. Under discussion is the Early Career Professionals Award which will provide a free registration for the annual conference plus financial support for travel for up to 5 members each year who are in the first 10 years of their radiation protection career. Also, the AURPO Professional Development Award will provide one person per year with a free place on the AURPO/Strathclyde Course. These may not be finalised before the 2019 Conference but I will keep you posted on progress for 2020.

Talking of the 2019 Annual Conference, Cardiff is getting closer – not necessarily geographically but certainly chronologically. The invitation and delegate booking form are now available, as is the exhibitors' booking form. A great programme of talks has been prepared and my thanks go to the STC for organising this. Add in a networking evening at Cardiff Castle and a conference dinner in Aberdare Hall and this is set to be one not to miss. I encourage you all to register for the conference as soon as possible. I am certain that it will be a fantastic event. Please don't forget that the 2020 Conference will be held in Liverpool and I would welcome any volunteers to host the annual conference in 2021.

On the members side of the website you will see that there is now a call for election nominations for a number of Executive Committee posts that will become available later this year. Initially, these posts are: President, Honorary Secretary, Honorary Treasurer and two other EC posts. I welcome all eligible persons from the membership who wish to stand for these posts. The closing date for nominations is 31st July. In August the nominees will be announced. If there is more than one nominee for the same post then an on-line ballot via the website will be held to elect these posts.

More generally, AURPO is always very happy to welcome volunteers to engage in a variety of ways. For example this could be joining a committee, writing an article for the newsletter, or helping out at the annual conference. If you would like to get involved then please e-mail me (president@aurpo.org.uk). So I hope to see you all in Cardiff.

Best wishes
Pete Cole
Acting President

Useful AURPO Contacts

Secretary

All formal enquires for information or comment by the AURPO should be emailed to the AURPO's secretary: secretary@aurpo.org.uk

President

As an easy way to email the President of AURPO, you can use the following address: president@aurpo.org.uk

Enquiries

Informal enquiries, and information about the Association and its activities: enquiries@aurpo.org.uk

Membership

For enquiries about any aspects of membership, including Affiliate Membership (for commercial organisations): membership@aurpo.org.uk

News

For contributions to the newsletter, and communications to the editor: news@aurpo.org.uk

Conference

For enquiries about the AURPO conference: conference@aurpo.org.uk

Exhibitions

If you would like information about exhibiting at our conferences, or sponsorship opportunities for these events: exhibitions@aurpo.org.uk

Treasurer

If you have an AURPO financial matter to discuss, please contact our Honorary Treasurer: treasurer@aurpo.org.uk

Mail base (Hasnet-rad)

If you would like to be included on the Hasnet-rad mail base, please contact the administrator: hasnet-rad@aurpo.org.uk

Website

If you would like to give feedback or comment on the content/layout of the website, have suggestions for additional content or are having difficult accessing your account: websitehelp@aurpo.org.uk

AGM ANNOUNCEMENT

58th Annual General Meeting of

The Association of University Radiation Protection Officers (AURPO)

In accordance with Section 6(a) of the AURPO Constitution, notice is hereby given of the above meeting, to be held at 17:00 hrs on Tuesday 3rd September 2019 in the Sir Martin Evans Building, Cardiff University.

- Any motions (duly proposed and seconded) and/or items of Any Other Business, must be received by the Honorary Secretary, by 31st July 2019.
- Nominations are invited for the following membership of the Executive Committee of AURPO and Honorary Officer roles:

  President of AURPO

  Honorary Secretary

  Honorary Treasurer

  2 x Executive Committee member positions

  - All nominations, duly proposed and seconded, must be agreed by the nominee and must be received by the Honorary Secretary by by 31st July 2019, via the online web form in the Members Section of the AURPO Website (https://aurpo.org.uk/members/nominations/).
  - Please note, you must be logged in as a member in order to access the form. If you have any issues logging in, please contact websitehelp@aurpo.org.uk

- Volunteers or suggestions are also invited for members to be considered for membership of the Scientific and Technical Committee.
- All documentation relevant to the meeting will be available as part of the Conference pack.

This announcement was sent to all members electronically on 1st July 2019.

AURPO SCIENTIFIC PROGRAMME UNIVERSITY OF CARDIFF
3rd – 5th September 2019

Day 1: Tuesday 3rd September

12:45 – 12:50 Introduction & Welcome – Professor Peter Cole (Acting President AURPO)

12:50 – 13:35 'HSE Findings on IRR17 non-compliances' TBC (HSE)

13:35 – 14:20 'ONR Safeguards' Neil Blundell and Marie Whitrow (ONR)

14:20 – 15:05 Afternoon break / Exhibition

15:05 – 15:50 'Requirements for transport of RAM' Mike Potter (PHE)

15:50 – 16:35 'ONR transport inspections' Lindsey Cairns (ONR)

16:35 – 16:45 Question and Answer Session

17:00 – 18:00 AURPO Annual General Meeting: All eligible members to attend.

18:50 Networking Evening

Day 2: Wednesday 4th September

09:00 – 09:05 Welcome

09:05 – 09:50 'Doses and health effects from inhaled and ingested radionuclides: ICRP models and assumptions' John Harrison (PHE)

09:50 – 10:30 'Non-cancer effects of radiation exposure' Ken Raj (PHE)

10:30 – 11:15 Refreshments / Exhibition

11:15 – 11:55 'Decommissioning, the pros and cons' Gordon John (Wood)

11:55 – 12:35 'BEIS Liquid Discharge Review' Kelly Jones (PHE)

12:35 – 13:35 Lunch / Exhibition

13:35 – 13:55 'Compliance with Radon requirements under IRR17' Tracy Gooding (PHE)

13:55 – 15:00 'The Role of the MPE in University research' Paul Connolly (IRS Ltd)

15:00 – 15:40 Afternoon break / Exhibition

15:40 – 16:10 'Replacement of Caesium Source in the Health and Research Sectors' Joe Barker (Home Office)

16:10 – 16:30 'Current and future challenges facing an RPO' Fiona Abbot (Swansea University)

16:30 – 16:50 'Incident planning from events that have occurred' Chris Murdock (Peak RPA)

16:50 – 17:00 Question and Answer Session

17:00 Close

19.00 Conference Dinner

Day 3: Thursday

09:00 – 12:00 Technical tour of Pharmaron (Optional, please book in advance) (Cardiff Bay)

REPORT ON INCIDENT INVOLVING PRE-CLINICAL PET CT SCANNER

An incident occurred in April 2019 involving an x-ray generator that members might find interesting.

Description of Incident

A preclinical medical research unit at a UK University undertakes research into novel Positron Emission Tomography radiotracers. This involves the use of a proprietary preclinical PET CT scanner. The scanner is designed for imaging rodents, and electrical power is supplied via an uninterruptible power supply (UPS). A research technician was carrying out a quality assurance run, which involved the x-ray tube being energised, when the computer control system froze. The x-ray warning light stayed on. The technician attempted to switch the scanner off at the computer several times, to no avail. He then operated the emergency stop button, which also failed to de-energise the x-ray warning light. Although there was a (contamination) radiation meter in the lab, which could have confirmed whether x rays were being generated, the technician did not use it. The technician then attempted to obtain further advice, but failed to do so. After about 1½ hours, the UPS started to spark and smoke, the power to the scanner was lost, and the x-ray warning light went off. The scanner did have a power switch on the unit and an isolation switch on the wall, but the technician did not try to use them until this point.

Radiological Implications

The University RPA had undertaken a critical examination on the facility when it was first installed, so the level of accessible dose rates arising from the CT scanner were available. Scattered radiation levels with a rat phantom were very low, not exceeding 5 µSv/h. The technician stated that he had not approached the x-ray main beam, so even if he had remained near the scanner, his exposure from the incident is unlikely to have exceeded 7.5 µSv. His whole-body personal dosemeter showed no significant dose.

Conclusions

A subsequent investigation revealed that the fault was a mechanical one, which then caused the controlling software to fail. Given that software failures seem inevitable, the RPA had enquired at the time of installation whether the emergency stop was either hardwired or the software met the requirements of BS EN 61508. The suppliers had assured the University that the emergency stop was not wired exclusively to the controlling software. After the incident the suppliers confirmed that the emergency stop was in fact wired only to stop the mechanical movement of the scanner and to switch off the x rays. Based on the evidence of the incident, it is believed that this is achieved only by instructing the controlling software.

The investigation also identified that the UPS was not sufficiently rated for the scanner.

Remedial Action

Since reconfiguration of the wiring of the scanner was deemed to be not practicable, a separate emergency switch has been wired to the mains supply. The Contingency section of the Local Rules has been revised, and all relevant staff instructed. The technician has been advised to attend a refresher fire safety course.

The use of software to control radiation generators (and hazardous laser systems) continues to increase, and this University has experienced a number of safety-critical software faults. Whilst technically feasible, it is probably unrealistic to expect those acquiring such equipment to independently verify wiring

configurations, or the reliability of software, and reliance remains on the assurances of the manufacturer. Where safety-critical controls or associated safety devices are software-wired only, and the software integrity is not compliant with the relevant British Standard, users at this University are asked to perform safety checks before every use of the equipment, or daily if the equipment is used every day.

Please send any questions to m.gillatt@sheffield.ac.ukor news@aurpo.org.uk and they will be forwarded to the author.

ONR News

Following on from my March 2019 update and news that amendments have been made to The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG), ONR has been drafting guidance to accompany the revised legislation and an informal consultation is underway at the time of writing (from **7 June** to **19 July 2019**.) The updated guidance is non-statutory but it will be a useful tool to inform and assist dutyholders involved in the transport of Class 7 goods (radioactive material) to comply with the amended requirements of CDG.

Further information, and links to relevant documents including The Carriage of Dangerous Goods (Amendment) Regulations 2019 and the associated draft ONR guidance, can be found on the ONR website http://www.onr.org.uk/consultations/2019/cdg/index.htm

By way of a reminder, the amendments to CDG came into force on 21 April 2019 and dutyholders have a 12 month implementation period to be compliant with amended requirements relating to radioactive material.

By Lindsey Cairns, 26 June 2019

BEIS NEWS

The Department for Business, Energy & Industrial Strategy has issued revised guidance on The Justification of Practices Involving Ionising Radiation Regulations 2004. Guidance on their application and administration can be found here:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/804958/Justification-of-practices-involving-ionising-radiation-regulations-2004.pdf

PHE NEWS

Public Health England have developed a webpage outlining the support, datasets and informative reports which are available to help facilitate the process of the implementation of REPPIR 2019.

The webpage includes links to a number of reports: Schedule 1, consequence assessment methodology and public health protection in radiation emergencies.

It also details contact information for general REPPIR enquiries and access to data files.

This information can be found here:

https://www.phe-protectionservices.org.uk/eras/reppir2019/

AFFILIATE NEWS – AURORA

Aurora will be running three Non-Ionising Radiation safety courses in Harwell, Oxfordshire later this year.

Laser Safety Officer (LSO) course - 24th September 2019
This one-day training course is designed for individuals who will be appointed as **Laser Safety Officers (LSOs)**, or as a refresher for those already appointed to this role. On successful completion of this course the delegates will have obtained the required information and knowledge to carry out the role of LSO effectively.

Laser Safety Officer (LSO) and laser safety calculations course - 24th and 25th September 2019
This extended course includes the one-day LSO course and a second day covering laser safety calculations. This course is for individuals that are required to carry out laser safety calculations, such as Maximum Permissible Exposure (MPE) values, Nominal Ocular Hazard Distance (NOHD), and the determination of a suitable scale number (LB) number for laser protective eyewear. The course will include practical exercises and worked examples.

Electromagnetic Fields (EMF) safety course - 1st October 2019
This training course is designed for managers, health and safety professionals and individuals who have the responsibility of ensuring compliance with the Control of Electromagnetic Fields at Work Regulations 2016 in their workplace. This course will provide delegates will a good understanding of the regulations so that they are able to implement an effective EMF safety management system and work towards regulatory compliance.

If you would like any further information, please contact the course manager,
Raj Bunger – raj.bunger@aurorahp.co.uk

For more details or to register on any of these courses, please visit: https://aurorahp.co.uk/safety-training/

AFFILIATE NEWS – PYCKO SCIENTIFIC

Model 3002 Alpha – Beta Datalogger

Features

- Large Backlit LCD for Ease of Reading
- Autoranging Dual Tone Audio Clicks
- All-Digital Calibration
- Rate, Max, and Count Modes of Operation
- Alpha, Beta or Alpha = Beta Measurements
- 4-Button Intuitive Interface for Easy Operation
- Splash-Resistant Construction for Outdoor Use



Part Number
48-4037

Introduction

The Ludlum Model 3002 is a lightweight, ergonomically designed instrument with an external detector used for alpha and beta survey. Three modes of operation – RATE, MAX, and COUNT – are available for the user.

Measurements can be collected in cps, cpm, Bq, or dpm units. Measurements are time-stamped and stored in internal non-volatile flash memory. The user can switch between alpha, beta, or alpha + beta units by simply pressing the α-βbutton.

The handle has a Log push button and comes ready to log up to 1000 alpha and beta measurements. Setup is available via front panel controls or via software from Ludlum Measurements. An internal switch is used to enable or disable the front-panel setup feature to protect desired settings from inadvertent modification.

Features of the Model 3002 include a large, easily-readable LCD (liquid crystal display), piercing audio warning tone, easy, intuitive, user-friendly design, all-digital calibration, and splash-resistant construction for outdoor use. The Model 3002 Alpha-Beta Datalogger is shipped ready to use with batteries and calibration certificate.

Specification

DETECTOR: alpha-beta scintillation, gas proportional

ALARMS: count rate and scaler alarm setpoints adjustable over the display range; separate alpha and beta alarm LEDs

OVERLOAD: high countrate saturation protection prevents false display of lower count rates

LOSS OF COUNT PROTECTION: audible and visual alarms activated after pre-selected time intervals with no detected pulses LCD

DISPLAY: 3-digit LCD with large 20 mm (0.8 in.) digits, (k)cps, (k)cpm, (k)Bq, (k)dpm, low-battery indicator, MAX, ALARM, AUDIO, α icon, β icon

DISPLAY RANGE: 0.0 cps to 99.9 kcps; 0.00 cpm to 999 kcpm; 0.00 Bq to 99.9 kBq; 0.00 dpm to 999 kdpm. BACKLIGHT: built-in ambient light sensor automatically activates low-power LED backlight unless internal dipswitch is set to continuous-On (will reduce battery life)

USER CONTROLS:

- ON/OFF/ACK - press to turn ON, tap to acknowledge alarms and silence alarm tone, hold for OFF
- MODE - alternates between RATE (count rate), MAX (captures peak rate), and COUNT (user-selectable preset count time from 0 to 10 minutes). Number of modes can be reduced in setup.
- AUDIO – turns ”click“ audio On/Off
- α-β- changes the display between alpha, beta, and alpha+beta measurements

RESPONSE TIME: user-selectable from 1 to 60 seconds, or Auto-Response Rate FAST or SLOW
AUDIO: alarm audio greater than 80 dB at 0.6 m (2 ft), higher pitch alpha tones distinguished from lower pitched beta clicks
POWER: four alkaline or four rechargeable “AA”batteries (instrument does not support in-device charging)
BATTERY LIFE: approximately 750 hours of operation (as low as 100 hours with backlight configured for continuous-on), 16-hour low battery warning
CONSTRUCTION: high-impact plastic with water-resistant rubber seals and separate battery compartment
TEMPERATURE RANGE: -20 to 50 °C (-5 to 122 °F), may be certified for operation from -40 to 65 °C (-40 to 150
°F)
ENVIRONMENTAL: NEMA (National Electrical Manufacturers Association) rating of 4x or IP (Ingress Protection) rating of 65
PHYSICAL: SIZE: 16.5 x 11.4 x 21.6 cm (6.5 x 4.5 x 8.5 in.) (H x W x L); WEIGHT: 0.9 kg (2.0 lb)

OPTIONS:
Triad Datalog Kit: includes data logging software plus required cable [Part Number 4498-775]
Triad Calibration Kit: includes calibration software plus required cable [Part Number 4498-578] Headphone Option: provides the Model 3000-Series of instruments with a jack and circuitry required so a standard headphone plug may be used with the instrument [Part Number 4498-555]
Shoulder Strap: adjustable, padded shoulder strap with kit to attach to Model 3000-series instruments [Part Number 4498-868]
Storage/Transport Case: rugged, foam-padded case properly sized for Model 3000-series instruments [Part Number 2312958]

L20PS BATTERY POWERED PORTABLE SAMPLING PUMP



MAX FLOW FREE AIR 30 LITRES / MINUTE.

TYPICALLY 20 LITRES MINUTE WITH GF FILTER PAPER. INTEGRAL GAUGE TO SHOW FLOW DURING USE. ELAPSED TIME INDICATOR TO DETERMINE RUN TIMES THE PUMP IS A 12V DOUBLE ENDED DIAPHRAGM.
WITH A 12V, 12Ah RECHARGEABLE DRY LEAD ACID BATTERY. SUPPLIED WITH BATTERY CHARGER.
TYPICAL RUN TIME : 5 HRS CONTINUOUS USE. WEIGHT: 6KG.

NEW BOOKS AND PUBLICATIONS

IEC

IEC 61563:2019 PRV Radiation protection instrumentation – Equipment for measuring the activity concentration of gamma-emitting radionuclides in foodstuffs

IEC TR 62669:2019 Case studies supporting IEC 62232 - Determination of RF field strength, power density and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure

IEC 62244:2019 Radiation protection instrumentation - Installed radiation portal monitors (RPMs) for the detection of illicit trafficking of radioactive and nuclear materials

Health Physics

June 2019 issue includes

Emissions From Smart Meters and Other Residential Radiofrequency Sources
Aerts, Sam; Verloock, Leen; Van den Bossche, Matthias; et al

July 2019 issue includes

Effect of Radiation Dose Rate on Cancer Mortality among Nuclear Workers: Reanalysis of Hanford Data. Sasaki, Michiya; Kudo, Shin'ichi; Furuta, Hiroshige

An Investigation of Procedural Radiation Dose Level Awareness and Personal Training Experience in Communicating Ionizing Radiation Examinations Benefits and Risks to Patients in Two European Cardiac Centers. Banerjee, I.; McNulty, J. P.; Catania, D.; et al

Design of a Do-It-Yourself Geiger-Muller Counter With Smartphone Mapping Application.
Xiao, Jeffery B.; Seekamp, James M.; Chung, Long Kiu; et al

August 2019 issue:

Special issue highlighting 50 years of research at the United States Transuranium and Uranium Registries

Journal of Radiological Protection

September 2019 issue includes:

Unintended and accidental medical radiation exposures in radiology: guidelines on investigation and prevention. C J Martin et al 2017 J. Radiol. Prot. 37 883

IAEA Safety Standards and publications

Decommissioning of Medical, Industrial and Research Facilities
IAEA Safety Standards Series No. SSG-49
Decommissioning is the last step in the lifetime management of an authorized facility and must be considered during the design, construction, commissioning and operation of such facilities. This Safety Guide provides guidance on how to comply with requirements for the safe decommissioning of medical, industrial and research facilities. Electronic version can be found: https://www.iaea.org/publications/12291/decommissioning-of-medical-industrial-and-research-facilities

Committee on Medical Aspects of Radiation in the Environment (COMARE)

The Committee on Medical Aspects of Radiation in the Environment (COMARE) has just published its long awaited report on

Medical radiation dose issues associated with dual-energy X-ray absorptiometry (DXA) scans for sports performance assessments and other non-medical practices

In this report, the Committee on Medical Aspects of Radiation in the Environment presents a review of the health effects, benefits and risks arising from the use of ionising radiation in dual-energy X-ray absorptiometry (DXA) scans in non-medical practices, specifically in sports performance assessments, in the UK. The report considers the radiation protection aspects including the potential justification and the need for optimisation of the practice.

Published 17 July 2019

Association of
UNIVERSITY
RADIATION
PROTECTION
OFFICERS

AURPO Membership Renewal Subscription Form 2019

The Association Annual Subscription of £35 (£10 for retired members) is due on the 1st July 2019. Members who attend the Annual Conference in September may pay the subscription fee at the time of registration.

Please fill in the form below, and send it to me regardless of the method of payment, or if not renewing your membership.

Subscription 2019 period is from 1st July 2019 to 30th June 2020

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

If paying by cheque please make it payable to AURPO.

NB*. Invoices will* ***not*** *be sent unless specifically requested. POs alone* ***are not*** *requests for an invoice and are considered for information only.* **Please note that it is now a condition of membership that all subscriptions must be paid by 30th September 2019**, unless paying via the Conference, please pay as early as possible. Thank you

Julie Turner
Honorary Treasurer Email: treasurer@aurpo.org.uk

Please make your payment either by cheque payable to AURPO

or by BACS:

Paying by BACS

Important : Please ensure that your **name,** or **the invoice number** is quoted on the **Remittance Advice** and that a **copy** is sent to the **Treasurer**, preferably by e-mail.

Account Name:	**Association of University Radiation Protection Officers**
Bank Name:	NATIONAL WESTMINSTER BANK
Bank Address:	Leeds City office 8 Park Row Leeds, LS1 5HD
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 Julie Turner
Health & Safety Service
Loughborough University
FM Building
Loughborough
LE11 3TU
Tel: 01509 222599
Email: treasurer@aurpo.org.uk