



**ISRRT**  
INTERNATIONAL  
SOCIETY OF  
RADIOGRAPHERS  
& RADIOLOGICAL  
TECHNOLOGISTS

# news & views

DECEMBER 2014

from around the world

The Official Publication of the ISRRT





**One Solution.  
Unlimited Possibilities.**

**VersaHD**

4513 371 1124 01:13

The convergence of conventional radiotherapy  
with advanced stereotactic precision.

**[www.VersaHD.com](http://www.VersaHD.com)**

Versa HD is not available for sale or distribution in all markets. Please contact your Elekta representative for details.



**ELEKTA**



# Contents

## REPORTS

Association of Educators in Imaging and Radiologic Sciences	20
Japan hosts 2,000 + participants	21
World Radiography Day 2014	
Canada, Fiji	22
Australia	23
Myanmar	24
Nigeria	25
Ghana	26
Cote d'Ivoire	27
Sri Lanka	28
UK	29
Workshop aids Haitian radiographers	30
SEARC	32
HERCA stakers meeting	36
Professional Practice Committee	38
America's report	43

## ARTICLES

Mo-99/Tc-99 supply shutdown of Chalk River and French OSIRIS reactor may contribute to a shortage in Nuclear Medicine in the future	16
IIRRT CPD	18
UK SoR Awards	44

## NEWS

News from member societies:	
Asia/Australasia: Australia, New Zealand, Taiwan	46
The Americas: America, Canada, Trinidad & Tobago, Gyana	47
Europe: Finland, Greece	51
Africa: Ghana, South Africa	52

## REGULARS

ISRRT Officers of Board of Management	5
ISRRT Committee Regional Representatives	5
Contact details for: Submissions, deadlines, advertising & WRETF	6
President's Message	7
Chief Executive Officer's report	10
Treasurer's report	12
Member Profiles	14
Names and addresses of member societies & ISRRT Council Members	56
WRETF	45

ISSN NO. 1027-0671



### ISRRT Editorial Committee:

Dr Fozy Peer  
Dr Alexander Yule  
Alain Crompt

### Editor:

Rachel Bullard

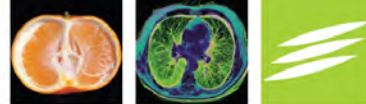
### Production & Design:

Deep Blue Design Studio,  
deepbluedesign1@mac.com

[www.isrrt.org](http://www.isrrt.org)

Views expressed in this Newsletter are  
not necessarily those of the ISRRT.





# Optimal combination for performance

**XENETIX®**  
Iobitridol **Sustainable imaging**

Scan  
Bag®



**XENETIX® 350**, solution for injection (350 mg/ml) ; **XENETIX® 300**, solution for injection (300 mg/ml) ; **XENETIX® 250**, solution for injection (250 mg/ml) – **Composition per 100 ml:** **XENETIX® 350:** 76.78 g of iobitridol (corresponding to 35 g of iodine), **XENETIX® 300:** 65.81 g of iobitridol (corresponding to 30 g of iodine), **XENETIX® 250:** 54.84 g of iobitridol (corresponding to 25 g of iodine) – Indications and approvals may vary in different countries. Please refer to the local Summary of Product Characteristics (SPC) before prescribing. Further information available on request. – **Indications(\*\*):** this product is for diagnostic use only. **Contrast agent for use in:** **XENETIX® 350** intravenous urography, computed tomography, intravenous digital subtraction angiography, arteriography, angiocardiology – **XENETIX® 300:** intravenous urography, computed tomography, intravenous digital subtraction angiography, arteriography, angiocardiology, endoscopic retrograde cholangiopancreatography, arthrography, hysterosalpingography – **XENETIX® 250:** phlebography, computed tomography, intra-arterial digital subtraction angiography, arteriography, endoscopic retrograde cholangiopancreatography – **Posology and method of administration(\*):** the doses should be adapted to the type of examination and the region to be opacified as well as the weight and renal function of the patient, especially in children – **Contraindications(\*):** hypersensitivity to iobitridol or any of the excipients, history of major immediate or delayed cutaneous reaction (see undesirable effects) to **XENETIX®**, manifest thyrotoxicosis, hysterosalpingography during pregnancy. – **General particulars corresponding to all iodinated contrast agents(\*):** in the absence of any specific studies, myelography is not an indication for **XENETIX®**. All iodinated contrast media can cause minor or major reactions that can be life-threatening. These can occur immediately (within 60 minutes) or be delayed (within 7 days) and are often unpredictable. Because of the risk of major reactions, emergency resuscitation equipment should be available for immediate use. – **Precautions for use(\*):** intolerance to iodinated contrast media, renal insufficiency, hepatic insufficiency, asthma, dysthyroidism, cardiovascular diseases, central nervous system disorders, pheochromocytoma, myasthenia. **Interaction with other medicinal products and other forms of interaction(\*) – Association requiring precaution of use (\*):** beta-blocker agents, diuretics, meformin, radiopharmaceuticals, interleukin II – **Pregnancy and lactation (\*) – Undesirable effects(\*):** hypersensitivity reaction including anaphylaxis, angioedema, urticaria, erythema, pruritus, eczema, acute generalized exanthematous pustulosis, Stevens-Johnson syndrome, Lyell's syndrome, maculopapulous exanthema, bronchospasm, laryngospasm, oedema, dyspnea, sneezing, cough, tightness in throat, nausea, vomiting, abdominal pain, agitation, headache, vertigo, hearing impaired, presyncope, tremor, paresthesia, somnolence, convulsions, confusion, visual disorders, amnesia, photophobia, transient blindness, coma, feeling hot, malaise, chills, tachycardia, arrhythmia, ventricular fibrillation, hypotension, circulatory collapse, angina pectoris, myocardial infarction, cardiac arrest, respiratory arrest, pulmonary edema, thyroid disorder, acute renal failure, anuria, blood creatinine increased, injection site (pain, inflammation, oedema, necrosis) following extravasation. – **Overdose(\*) – Pharmacodynamic properties(\*):** Pharmacotherapeutic group: Water-soluble, contrast medium with low osmolality ; ATC code: V08AB11. **Presentation (\*\*):** **XENETIX® 250:** 50 ml, 100 ml, 200 ml or 500 ml glass vials, **XENETIX® 300/350:** 20 ml, 50 ml, 60 ml, 75 ml, 100 ml, 150 ml, 200 ml or 500 ml glass vials and 100 ml, 150 ml, 200 ml or 500 ml polypropylene bags. **Marketing authorisation holder(\*):** Guerbet - BP 57400 - F-95943 Roissy CdG cedex – FRANCE. **Information:** tel: 33 (0) 1 45 91 50 00. **Revision:** November 2011.

(\*) for complete information please refer to country's local SPC

(\*\*) Indications may differ between countries

(\*\*\*) All presentations may not be marketed

**Guerbet** |   
Contrast for Life



## ISRR Officers: Board of Management

### PRESIDENT

Dr Fozy Peer,  
PO Box 1435, Wandsbeck,  
KwaZulu-Natal, South Africa 3631  
Tel: 27 31 2401881; Fax: 27 31 0865215256  
Email: [fozypeer@gmail.com](mailto:fozypeer@gmail.com)

### VICE PRESIDENTS

#### The Americas

Terry Ell  
228 Signature Pt. S.W., Calgary  
Alberta, Canada  
Email: [terry.ell@albertahealthservices.ca](mailto:terry.ell@albertahealthservices.ca)

#### Asia and Australasia

Dr Napapong Pongnapang  
Depart. of Radiological Technology,  
Faculty of Medical Technology,  
Mahidol University, 2 Prannok Rd,  
Siriraj Hospital, Bangkok 10700, Thailand  
Tel: +66 2 419 7173; Fax: +66 2 412 4110  
Mobile: +66 81 900 2210  
Email: [napapong@hotmail.com](mailto:napapong@hotmail.com);  
[mtnpp@mahidol.ac.th](mailto:mtnpp@mahidol.ac.th)

#### Europe and Africa

Mr Philippe Gerson  
Cadre Paramédical Pôle Imagerie  
Hôtel Dieu de Paris  
1 Place du Parvis Notre Dame  
75004 Paris, France  
Tel: +33142348228; Fax: +33142348741  
Mobile: +33630191555  
Email: [philgerson@neuf.fr](mailto:philgerson@neuf.fr)

### REGIONAL DIRECTORS

#### The Americas

Jonathan Mazal  
8500 16th Street, Apt 410, Silver Spring  
MD 20910, USA  
Email: [jrmazal@gmail.com](mailto:jrmazal@gmail.com)

#### Asia and Australasia

Tan Chek Wee  
National University Health System  
Department of Radiation Oncology  
Medical Centre Level 8  
5, Lower Kent Ridge Road  
Singapore 119074  
Tel: +65 67728380  
Email: [sunrisepl@hotmail.com](mailto:sunrisepl@hotmail.com)

#### Africa

Boniface Yao  
18 BP 720, Abidjan 10, Cote d'Ivoire  
Mobile: (00225) 07052526/55066420/  
40097740  
Tel: (00225) 21242900 poste 240  
Email: [kwame\\_boniface@yahoo.fr](mailto:kwame_boniface@yahoo.fr)

#### Europe

Mr Dimitris Katsifarakis  
10 Kalavriton, Moschato, 183 44 Athens  
E-mail: [d\\_katsifarakis@yahoo.gr](mailto:d_katsifarakis@yahoo.gr)

### TREASURER

Mr Stewart Whitley  
UK Radiology Advisory Services Ltd

38, The Brooklands, Wrea Green, Preston  
Lancashire, England PR4 2NQ  
Tel: +44(0)1772 686689;  
M: +44(0)7973458499

### DIRECTOR OF EDUCATION

Dr Maria Y.Y. Law  
Medical Physics and Research  
8/F, Lee Shu Fan Block,  
Hong Kong Sanatorium and Hospital  
2 Village Road, Happy Valley, HK  
Email: [maria.law@polyu.edu.hk](mailto:maria.law@polyu.edu.hk)

### DIRECTOR OF PROFESSIONAL PRACTICE

Ms Donna Newman  
300 NP AVE #307  
Fargo North Dakota 58103  
Tel: +1 (701) -234-5664  
Email: [donna.newman@sandfordhealth.org](mailto:donna.newman@sandfordhealth.org)

### DIRECTOR OF PUBLIC RELATIONS

Alain Crompt  
7700 rue du Mans # 606  
Saint-Leonard, Quebec  
Canada H1S 1Z9  
Email: [alaincrompt@videotron.ca](mailto:alaincrompt@videotron.ca)

### CEO

Dr Alexander Yule  
143 Bryn Pinwydden  
Pentwyn, Cardiff, Wales CF23 7DG  
United Kingdom  
Tel: 44 2920 735038; Fax: 44 2920 540551  
Email: [isrr.yule@btinternet.com](mailto:isrr.yule@btinternet.com)

### FINANCE COMMITTEE

Dr Fozy Peer, Mr Stewart Whitley, Dr Napapong Pongnapang, Mr Philippe Gerson, Mr Terry Ell. See Board of Management for Finance Committee addresses.

## ISRR Committees Regional Representatives

### EDUCATION COMMITTEE

#### The Americas

Dr Robin Hesler  
594 Upper Paradise Road  
Hamilton,  
ON, Canada L9C 5P6  
Email: [lscolonel@rogers.com](mailto:lscolonel@rogers.com)

#### Africa

Hesta Friedrich-Nel  
Department of Clinical Sciences, CUT  
Private Bag X20539, Bloemfontein  
9300, South Africa  
Email: [hfried@cut.ac.za](mailto:hfried@cut.ac.za)

#### Europe

Ian Henderson  
School of Health Sciences  
Robert Gordon University  
Garthdee Road, Aberdeen  
AB10 7QG Scotland  
Email: [p.i.henderson@rgu.ac.uk](mailto:p.i.henderson@rgu.ac.uk)

#### Asia and Australasia

Yudthaphon Vichiani  
396/20 Jarunsanidwong 32 Rd.  
Siriraj, Bangkoknoi, Bangkok 10700  
Email: [yudthaphon@gmail.com](mailto:yudthaphon@gmail.com)

### PROFESSIONAL PRACTICE COMMITTEE

#### The Americas

Christopher Steelman  
791 Chestnut St Apt 9  
San Carlos CA 94070-3069  
Email: [csteelman@x-rayintl.org](mailto:csteelman@x-rayintl.org)

#### Asia and Australasia

James Ho Namkoong  
PETMRI Center  
Department of Radiology  
Seoul National University Hospital  
101 Daehak-ro  
Jongro-gu, Seoul, 110-744, Korea  
Email: [koreajamesho@gmail.com](mailto:koreajamesho@gmail.com)

#### Africa

Elizabeth Balogun  
Plot 526 Aina Akingbala Street  
Omole Phase 2 Estate  
Isheri, Lagos  
Email: [kanmibalo@yahoo.com](mailto:kanmibalo@yahoo.com)

#### Europe

Piret Vahtramae  
Parnu Hospital  
Ristiku 1, Parnu 80010, Estonia  
E-mail: [piretv@ph.ee](mailto:piretv@ph.ee) or [piretv@gmail.com](mailto:piretv@gmail.com)

### PUBLIC RELATIONS COMMITTEE

#### The Americas

Sharon Wartenbee  
504 Autumn Lane  
Sioux Falls  
SD 57105  
USA  
Email: [wartenbee@sio.midco.net](mailto:wartenbee@sio.midco.net)

#### Asia and Australasia

Mr Robert T.L. Shen  
Dept. of Radiology, Veterans General Hospital  
201, Sec. 2 Shipai Rd., Taipei, Taiwan 11217  
Email: [tlshen@yahoo.com](mailto:tlshen@yahoo.com)

#### Europe

Bodil Andersson  
Temyntsgränd 3  
SE-296 33 Åhus, Sweden  
Email: [bodil-t.andersson@med.lu.se](mailto:bodil-t.andersson@med.lu.se)

#### Africa

Ayodele Okhiria  
HR & Medical Department  
Chevron Nigeria Limited,  
2, Chevron Drive, Lekki Peninsula  
PMB 12825, Lagos, Nigeria  
Email: [AOKH@chevron.com](mailto:AOKH@chevron.com)

The ISRR is registered as a charity in the United Kingdom: Registration No. 27 6218.

## Editorial Submissions & Deadlines

Remember to e-mail your news before the deadline to:

Production Editor

Mrs Rachel Bullard

Email: [deepbluedesign1@mac.com](mailto:deepbluedesign1@mac.com)

Deadline for the three times a year issues are:

March 1 (April issue)

July 1 (August issue)

November 1 (December issue)

All material must be sent electronically.

Advertisements and images to be sent as high resolution PDF, TIF, EPS, JPEG files.

You are invited to comment in relation to the ISRRT Newsletter editorial content and make suggestions for future issues.

All comments will be considered by the Editor and her Committee.

## Advertisements/Secretariat

A section is reserved for the advertising of educational programs, courses or new radiological texts.

For further details or to advertise your program or new publications please contact the ISRRT CEO:

Dr Alexander Yule

143 Bryn Pinwydden

Pentwyn, Cardiff Wales CF23 7DG

United Kingdom

Tel: +44 0 2920 735038

Fax: +44 0 2920 540551;

Email: [isrrt.yule@btinternet.com](mailto:isrrt.yule@btinternet.com)

## World Radiography Educational Trust Fund (WRETF)

Secretary: Ms Sue Marchant  
143 Corfield Street,  
Bethnal Green,  
London  
E2 [ODS.UK](http://ods.uk)  
[susan.marchant2@btinternet.com](mailto:susan.marchant2@btinternet.com)

## ADVERTISING INFORMATION

The ISRRT Newsletter would like to invite readers and others to take advantage of the extent of our circulation and advertising service.

The ISRRT Newsletter reaches 72 countries, 4500 associate members, libraries and schools of radiography, government bodies and professional societies.

The following are costs for mono advertising as at January 2014. For colour advertising rates please contact the ISRRT CEO.

	per issue	per two issues
<b>full page</b>	£300 (US\$550, EUR430)	£550 (US\$1010, EUR790)
<b>half page</b>	£225 (US\$415, EUR325)	£400 (US\$735, EUR575)
<b>quarter page</b>	£100 (US\$185, EUR145)	£150 (US\$275, EUR215)
<b>one eighth page</b>	£60 (US\$110, EUR86)	£100 (US\$185, EUR145)

Print ready file, PDF, EPS  
210mm x 290mm (add 5mm all round for bleed)  
Digital format acceptable.

Colour advertising costs:  
On application to the CEO  
Email: [isrrt.yule@btinternet.com](mailto:isrrt.yule@btinternet.com)

Production Editor: [deepbluedesign1@mac.com](mailto:deepbluedesign1@mac.com)



**Dr Fozy Peer**  
President,  
International Society of Radiographers  
and Radiological Technologists

## President's message

**W**arm greetings from sunny South Africa after just over four months of my first year in office as the President of the ISRRT.

The ISRRT newsletter, *News & Views* is now available as three editions per year, hence the messages/reports from the CEO, Directors of Education, Professional Practice and Public Relations and myself as President will be more frequent to enlighten you on what is currently happening in the 'radiographic world'.

It seems as if it was just a few days ago where we enjoyed the hospitality of the Finnish Society in Helsinki. For those of us that were lucky to be there, we thoroughly enjoyed the stimulating discussions and presentations at the academic sessions. The social events were to say the least, outstanding.

It was great meeting colleagues from all over the world and realising just how similar the radiographic world is. Radiographers/Radiological Technologists share the same passion for their work irrespective of where they hail from.

World Radiography Day (WRD) was celebrated globally on 8 November 2014 as a tribute to the 1895 Nobel Peace Prize winner, Professor Wilhelm Roentgen, whose discovery of X-rays revolutionised medical diagnosis. The theme adopted by the ISRRT for 2014 is; Radiography...Advancing Imaging and Healing Globally. Radiographers all over the world hold this day very close to their hearts and this commemoration has become a global rallying call for us to ensure that radiographic imaging and radiation treatment continues to strive to achieve uncompromising service excellence. Here's wishing you a super WRD and please read about this year's WRD activities further on in this issue.

The ISRRT as the voice of radiation medicine technology throughout the world is asked to provide comment from various international organisations. Whenever an opinion related to radiography is needed at the international level from any organisation across the globe, it is the ISRRT that is the voice of our profession.

Some of the initiatives that the ISRRT is involved in:

- As pertains to Dose Optimisation and Justification the ISRRT is committed to the Bonn-call-for-action in the area of radiographer involvement in the justification of imaging procedures using ionizing radiation.
- The ISRRT submitted comments and feedback from stakeholders on the Heads of European Radiological Competent Authorities (HERCA) position Paper on Justification of Individual Medical Exposures for Diagnosis. The ISRRT was represented at a multi-stakeholders meeting on the justification of individual exposures by a Board member in Sept 2014. The comments were ably put together after wide consultation by Board members with their relevant regional coordinators.
- The ISRRT proposed commitments to contribute according to our role to improve justification in medical imaging related to the HERCA - SMART approach. A Web based decision tool for radiographers for justification of imaging procedures using ionizing radiation was proposed.



Fozy Peer with mammography delegates in Finland.

## President's message

- The ISRRT, with input from the relevant Board members have committed to collaborate on the SMART approach related to the position of occupational exposure reduction with the use of medical devices.
- The technologist's perspective on immobilisation devices in the practice of radiology with relation to dose reduction to both the patient and the occupational dose to the technologist was submitted to the ICRQS working group on Occupational Radiation Protection.

Our immediate Past President, Dr Michael Ward, continued in his role as the on-site representative for the ISRRT and kindly attended the annual planning meeting of the Associated Sciences group of the RSNA.

Cynthia Cowling, the ex Director of Education, has continued to work with Dr Maria Law (Director of Education) on the survey questionnaire related to the the movement of Radiographers to a higher skill level in the International Labour Organisation (ILO) Classification of workers. The document was sent to the European Federation of Radiographer Societies (EFRS) for comment.

The document on the International Standards as a reference for benchmarking of qualifications is now available on the ISRRT website.

Also available on the website is the history of the ISRRT as compiled by Mr David Collier, CEO of the Australian Society of Radiographers (AIR).

We await applications for the Research Award for 2014, the theme for 2014 is, "The Role of the Radiographer in the Justification of Medical Exposure".

CEO succession plan is no doubt going to prove to be a challenge. We sincerely hope that the transition will be a smooth one.

We as radiographers and radiological technologists should take pride in what our jobs entail as we form an integral part of the healthcare team. Despite the fact that the leaders of ISRRT are from various countries; when any one of us speaking or act on behalf of the ISRRT, we are representing every one of us Radiographers/ Technologists across the globe.

**Dr Fozy Peer**  
**President, ISRRT**

## ISRRT WEBSITE

The ISRRT website carries up-to-date addresses of all member societies.

Please contact:

[isrrt.yule@btinternet.com](mailto:isrrt.yule@btinternet.com)

Here you can find information on the ISRRT and details of future meetings.

## COMMENTS ON THE NEWSLETTER

You are invited to comment on the presentation and contents of the newsletter and make suggestions for future issues.

Your comments will be considered by the Editor and her Committee.

email: [deepbluedesign1@mac.com](mailto:deepbluedesign1@mac.com)





MAY 28 – 30, 2015 | PALAIS DES CONGRÈS DE MONTRÉAL, QUÉBEC | DU 28 AU 30 MAI 2015

## COLLABORATIVE CARE IMAGING AND TREATMENT

## UNE APPROCHE COLLABORATIVE IMAGERIE MÉDICALE ET TRAITEMENT



### KEYNOTE SPEAKERS CONFÉRENCIERS D'HONNEUR

Gerard Farrell, MD, Memorial University  
André Néron, Université de Montréal  
George Wells, MSc, PhD, University of Ottawa

An unprecedented opportunity for collaborative education and networking for radiologists and other physicians along with technologists from six disciplines. Plan to attend this bilingual, multi-track program delivered by the thought leaders in the field of medical imaging and radiation sciences.

Voici une occasion sans précédent d'apprentissage et de réseautage pour des radiologistes, d'autres médecins et des technologistes provenant de six disciplines. Joignez-vous à nous lors de cet événement à la programmation bilingue et diversifiée présentée par des experts reconnus dans les domaines de l'imagerie médicale et des sciences de la radiation.

REGISTRATION OPENING DECEMBER 1  
[www.jointcongress.ca](http://www.jointcongress.ca)

INSCRIPTION OUVERTE LE 1<sup>er</sup> DÉCEMBRE  
[www.congrèsconjoint.ca](http://www.congrèsconjoint.ca)



Dr Alexander Yule  
CEO

## Chief Executive Officer report

Since the ISRRRT World Congress in Helsinki I have been in regular contact with Dr Fozy Peer who is the new ISRRRT President. There is much to discuss during the next few months prior to the ISRRRT Board meeting which will be held in London, UK, in January 2015. It will be busy leading up to the Board meeting preparing the agenda, sending out documents and arranging final travel and accommodation. One of the most important items on the agenda will be the replacement of myself as the CEO. I will be retiring at the end of the ISRRRT World Congress in Seoul, South Korea, in October 2016 and discussions are underway as to the requirements and cost of my replacement.

Preparations for the World Congress in Seoul in 2016 are now well under way. This will be an excellent Congress and information can be obtained on [www.isrrt.org](http://www.isrrt.org).

I am in constant communication with Mr Stewart Whitley, ISRRRT Treasurer. Stewart continues to be diligent in ensuring that the funds of the ISRRRT are spent effectively and participates in the management of the ISRRRT Portfolio of shares and investments. As part of this management Stewart and I meet twice per year with the person who manages the portfolio on behalf of the ISRRRT.

During August this year my wife Alison and I visited Canada on holiday. During our stay in Canada I took the opportunity to visit the headquarters of both the Canadian Association of Medical Radiation Technologists (CAMRT) and the Ordre des technologues en imagerie medicale en radio-oncologie et en électrophysiologie medicale de Quebec (OTIMROEPMQ). During the visits I met many of the staff and renewed old acquaintances. I would like to thank both Mr Francois Couillard, CEO of CAMRT and Mr Alain Crompt for their hospitality. Alain is of course also the ISRRRT Director of Public Relations.

The World Radiography Education Trust Fund (WRETF) continues to flourish. The Trustees of WRETF are working towards producing a new Strategic Plan which will cover the next five years and it is hoped to implement the plan early in year 2015. The WRETF launched a new bursary scheme on November 1, 2013 to enable radiographers, radiological technologists, assistants and teachers in developing countries to attend a relevant conference, or visit a training centre, hospital or other institution to enhance their knowledge of radiography and bring home better patient care to their hospitals and institutions. The first bursaries were awarded in 2014 and information can be found at [www.wretf.org](http://www.wretf.org).

I was honoured to be invited by JART President Yasuo Nakazawa to deliver a talk at the Japanese Association of Radiological Technologists (JART) 30th JCRT and the 21st EACRT Congress, B-con Plaza, Beppu, Japan, September 18-20, 2014. My entire visit was sponsored by JART for which I thank them.



Mr Phang, Prof Seiji Nishio, Mr Loc Thai Van, Bangladesh representative.



The opening ceremony was held on the afternoon of Thursday September 18 and this was followed by an excellent Gala Dinner.

The subject of my presentation was the history and the organisation of the International Society of Radiographers and Radiological Technologists (ISRRT).

I emphasised that it is my contention that the ISRRT Board must define its own future and if it does not then someone else will attempt to define it for them. In order for the ISRRT to continue to be the leader in the Radiologic and Imaging Sciences community the familiarity and comfort of the past years, or even the present time, must not be allowed to keep it from taking on the challenges needed to survive and to take charge of its future. The various communities and professional organisations of the ISRRT also have an important role in the future. Those organisations that are willing to be innovative and to work together, and to work in conjunction with the ISRRT, will enjoy both short and long term rewards. Each of us took on a great responsibility when we chose health care as our vocation and career path and if we continue to aim for success the future is ours to claim.

Following the conference I visited Shimadzu X-ray and met with Mr Koki Aoyama, General Manager, Global Marketing Department. Mr Aoyama kindly showed me round the Shimadzu Showroom and demonstrated the new products.

Shimadzu also has a Foundation Memorial Hall in which the history of Shimadzu is displayed. Of particular interest is the collection of x-ray equipment and radiographs from the early beginnings of our profession.

I was later given a sightseeing tour of Kyoto and was taken to the The Golden Pavilion, a Buddhist Temple and a Shinto Shrine. I would thank Mr Fumio Nishida and Ms Yumi Kimura, both of JART for accompanying me on the tour.

**Dr Alexander Yule**  
CEO, ISRRT



Outside the Shimadzu Foundation Memorial Hall. Sandy Yule, CEO, ISRRT; Mr Fumio Nishida, International Committee, JART; Mr Koki Aoyama, Shimadzu.



Dr Nakazawa introducing the guests who were present at the opening ceremony.



The Golden Pavilion.



**Stewart Whitley**  
Treasurer

## Treasurer's report

In April I reported that the Board had started the process of budget setting for 2015 which included determination of projects and workshops which will be held across the world in 2015.

This process has now been completed and I am pleased to report that workshops have been approved to take place in:

- Poland at the Poznan University Hospital. This will be a joint venture with the European Federation of Radiography Societies and will have as its topic "Radiation Protection and Dose Reduction in Daily Practice of Radiographers"
- Yangon, Myanmar. This will focus on "Digital Radiography for professional development"
- Kigali, Rwanda. The topic will be "Pattern Recognition of the Chest, Skeletal System & Abdomen and Routine Plain film Image interpretation"
- Managua, Nicaragua in partnership with PAHO. The workshop will focus on aspects of Radiography Digital Imaging

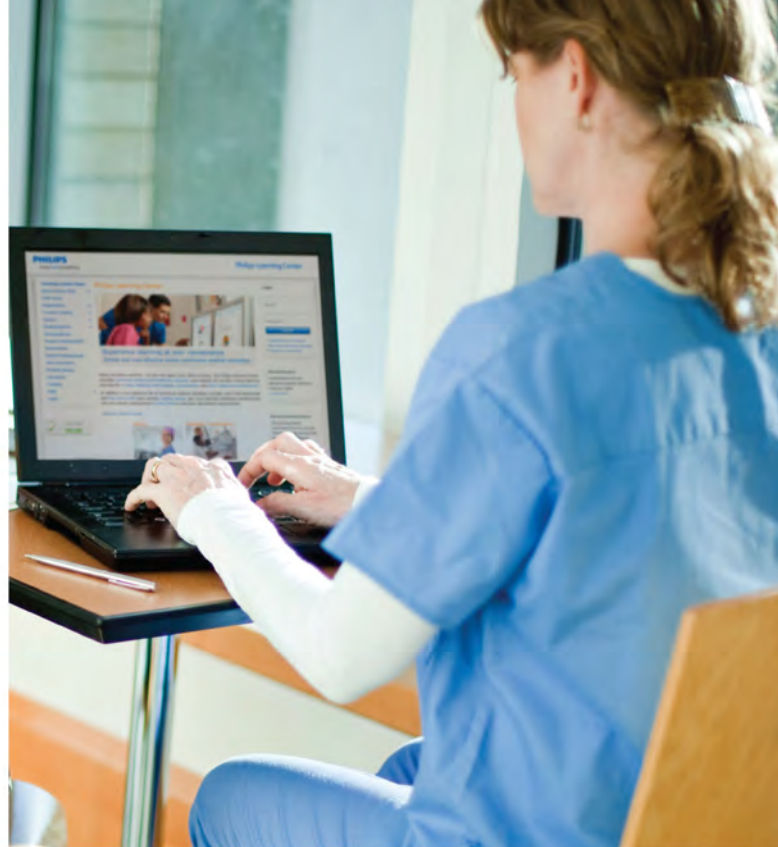
Shortly workshop sponsors will be sorting dates and details with local institutions and member organisations as well as those supporting member organisations who will be contributing resources and finances to these projects. So watch this space!

All of our activities are funded by member societies, associate members, corporate sponsors and surplus income from World Congresses. The Board members are grateful for your on-going financial support.

We look forward to the future and assure you of our ongoing commitment to be prudent and good stewards of our limited resources.

**Stewart Whitley**  
Treasurer





## The learning never stops

Are you looking for a fast, convenient way to earn continuing education credits? Then discover what over 400,000 healthcare professionals already know. That the Philips Learning Center offers a fast, convenient way to earn contact hours and CEUs. Our 1,200 online learning activities cover a broad range of clinical, departmental, and other healthcare topics. Most are accredited by recognized Continuing Education evaluation mechanisms. And all are designed around you – nurses, radiologic technologists, sonographers, and other healthcare professionals. With the Philips Learning Center, quality continuing education is as close as your personal computer. It's quick. It's easy. It's all about you. Register today at [www.theonlinelearningcenter.com](http://www.theonlinelearningcenter.com).

**PHILIPS**  
sense and simplicity



Christopher Whennan

## Christopher John Whennan

Council Member, ISRR

Christopher Whennan was born in South Australia and is married with two children.

### 1/7/2013 – Present

Service 2 Director Fiona Stanley Hospital, Murdoch, Western Australia

#### Service 2

Imaging, Pharmacy, Pathology, Immunology, Infectious Diseases, Sexual Health, Perioperative services including Operating Theatres, Day Medical Procedures, Day Surgical Procedures, Waitlist Management, Anaesthesia, Central Sterilisation

### 1996 – 2013

Chief Medical Imaging Technologist

Department of Diagnostic and Interventional Radiology

Royal Perth Hospital, Perth, Western Australia

#### Professional

Past President of the Australian Institute of Radiography



Reverend James William Ampofo

## Reverend James William Ampofo

Council Member, ISRR

Reverend James William Ampofo was born in Accra, Ghana, in 1969. He first trained as a Radiologic Technician from 1989 to 1992. He later pursued Medical Imaging Sciences in Instituto Superior de Ciencias Medicas in Havana City, Cuba from 1992-1997. He graduated with BSc Health Technology, specialty in Medical Imaging. He has undertaken a number of post-graduate courses in medical imaging and radiation protection, prominent among them were in the year 2001 at the Vrije Universitat Brussels, Belgium and in 2011 at the University of Ghana Graduate School of Nuclear and Allied Sciences. The later was a Post-Graduate Education Certificate in Radiation Protection under the International Atomic Energy Agency. He also holds MSc in Medical Ultrasonography (2014) from the University of Ghana School of Graduate Studies.

Rev. Ampofo taught care of the patient, medical imaging, anatomy and physiology at the School of Radiologic Technology, Korle Bu, Accra between 1998 and 2005. He is currently a Clinical Instructor in Computed Tomography and Magnetic Resonance Imaging.

He has also risen through the ranks at the Korle Bu Teaching Hospital, Accra, Ghana, to the position of Deputy Chief Radiographer.

In 2009 Rev. Ampofo was a CT Clinical Application consultant to the Connaught Teaching Hospital, Freetown, Sierra Leone.

He has been an active member of the Ghana Society of Radiographers, serving initially in several non-executive capacities. He was the Vice-President (2012-2014) and is the current President.

He is an ordained minister of God and is married with three children.





Marcia Smoke

## Marcia Smoke

Council Member, ISRRT

**M**arcia Smoke is currently the Head and Manager of Radiation Therapy, the Undergraduate Education Director and the Chief of Radiation Therapy Practice at the Juravinski Cancer Centre, Ontario, Canada. She is the chair of Cancer Care Ontario's Radiation Therapy Advanced Practice Group.

Marcia is a radiation therapist and has been a clinical instructor, Undergraduate Program Manager, Quality of Work Life Research Coordinator, and a Patient Education Director. Marcia holds a diploma in Adult Education, has Canadian Advanced Certification in Radiation Therapy and a Master of Science Degree in Radiation Therapy from Cambridge, England.

Marcia is also a Faculty Trainer for the Institute for Health Care Communication, Canada; a Qualified Auditor in Quality Assurance for Radiation Oncology with International Atomic Energy Agency (IAEA); and an Adjunct Professor of Radiation Therapy, University of Technology, Jamaica

Marcia's current research interests are in advancing practice for radiation therapists, quality assurance, creating innovative work environments and promoting a research environment for frontline radiation therapists



Khin Maung Tin

## Khin Maung Tin

Council Member, ISRRT

**K**hin Maung Tin began his career as a radiographer at the Central Women's Hospital, Yangon and today is the Chief Radiographer, Department of Radiology, Asia Royal Hospital, Myanmar.

He Successfully completed the Medical Radiography Course at Yangon General Hospital, in the first batch of radiography Course in Myanmar conducted by Mr G.H. Simcoe, Co-plan Adviser. As well as gaining qualifications in Myanmar Khin has also gained qualifications in the following; B.Sc [Physics] (University of Yangon), Cert.R.P.S & C.P (New Zealand), Cert.A.R.P (England), Cert.R.W.M (Indonesia), Cert. Med. Rad (Yangon).

Khin has had papers published in Burma (Myanmar) and in international journals and presented internationally. He has a keen interest in badminton

# Mo-99/Tc-99 supply shutdown of Chalk River and French OSIRIS reactor may contribute to a shortage in Nuclear Medicine in the future

**Terry Ell**, Vice President of America's  
**Donna Newman**, Director of Professional Practice

A request from Fozy Peer, President of the ISRRRT, was given to Terry Ell and myself to provide an update to the Board on the latest news regarding the  $^{99}\text{Mo}$  shortage in Nuclear Medicine that might threaten the supply in the very near future. With that request here is an update for our member societies regarding this issue.

TECHNETIUM-99m ( $^{99\text{m}}\text{Tc}$ ) is used in over 80% of nuclear medicine procedures. More than 30-40 million examinations are conducted worldwide annually. This is the “bread and butter” of nuclear medicine. Ongoing reliable supply of this critical isotope is under threat. According to a recent report by the Organization for Economic Co-operation and Development (OECD)<sup>1</sup>, *“Current global irradiation and processing capacity is predicted to be insufficient over the period analysed for reliable  $^{99}\text{Mo}/^{99\text{m}}\text{Tc}$  supply, even with all producers operating under normal conditions...”*

There are several issues that threaten the supply of this critical isotope:

- Demand is expected to continue to grow at a rate of about 2% per year worldwide until at least 2020 (ref. NEA-OECD report).
- Of the 9 reactors used in this supply chain are scheduled to stop production in 2016 (the Canadian NRU and French OSIRIS reactors). Together, they account for over 25% of the potential annual production capacity.<sup>1</sup> In August 2013, the Council on Radionuclides and Radiopharmaceuticals (CORAR), which is an association of companies in the United States and Canada that manufacture and distribute radiopharmaceuticals and radionuclides used in nuclear medicine, sent a letter to the Prime Minister of France to express deep concerns regarding the gap in  $^{99}\text{Mo}$  supply that could occur if production at the Osiris reactor ceases in 2015. CORAR requested the CEA and French regulatory agencies to extend the Osiris  $^{99}\text{Mo}$  production through the start of the production by the Jules Horowitz Reactor (projected for 2018). This request has not been authorized. The Canadian government has also indicated that it will not extend NRU production beyond 2016.
- All other major existing producing reactors, except for OPAL in Australia, are aging and scheduled to shut down by 2030.
- OECD countries have agreed to substitute the use of High Enriched Uranium (HEU) in reactors with Low Enriched Uranium (LEU) as HEU can be used to make nuclear bombs. The FDA reported that currently 30-40% of the global  $^{99}\text{Mo}$  is produced using Low Enriched Uranium (LEU) but this is slowly increasing. The transformation is proving technically challenging and expensive in light of the short expected life of existing reactors.
- The  $^{99}\text{Mo}$  processing capacity in the world is predicted to be insufficient to meet demand. One of the largest processor, Nordion, will cease  $^{99}\text{Mo}$  processing after NRU stops production, creating a gap until new projects like Australia's ANSTO new facility are fully operational.

The future price of  $^{99\text{m}}\text{Tc}$  is likely to rise due to the above challenges and the exit of Nordion. The ideal situation would be to have new

irradiation and processing capacity in place by 2016 to ensure a seamless transition away from the NRU and OSIRIS reactors and associated processing facilities. There are over 11 new irradiator projects underway (mainly reactors) and almost as many new processing facility projects. There is great debate as to whether these facilities will be available prior to the anticipated shut-downs. Apparently, CORAR is of the opinion that the long-term supply outlook is solid and that while some reactors are aging and will retire, there may be significant new capacity coming online to compensate. This optimism is not shared by all stakeholders and evince for this view is not well established. At this point there has been no assurance from industry that a sufficient number of these projects will be fully operational on time to ensure a steady and reliable supply of  $^{99\text{m}}\text{Tc}$ . Getting a clear picture of the situation post-NRU is proving to be very challenging. The best information available may be from the April 2014 OECD report which concludes that “clearly, insufficient processing capacity will be a major risk for secure supply in the next 5 years”. Capacity should stabilise after 2020, provided additional capacity is added to replace the 6 reactors scheduled for shutdown between 2024 and 2030.

Canada is also experimenting with direct  $^{99\text{m}}\text{Tc}$  production through the use of 3 particle accelerators (cyclotrons and linear accelerators). These projects are promising but there is still a number of logistical barriers and years away from full approval by government regulatory agencies such as Health Canada. Pricing and distribution scenarios remain uncertain.

CORAR claims that, while the industry experienced supply issues in 2009-2010, the supply chain has grown more resilient since then. The overall supply chain has gotten more efficient through better logistics, more efficient dosage, etc. The supply chain has become significantly more integrated globally.

The IAEA is also well aware of these issues. The IAEA has been involved in two major projects. The first is the conversion of  $^{99}\text{Mo}$  production using LEU which is supported by US DOE-NNSA and the Government of Norway. The IAEA also talked about a coordinated research project on accelerator-based alternatives to non-HEU production of  $^{99}\text{Mo}$ . The following countries are participating in this project: Armenia, Brazil, Canada, Hungary, India, Italy, Japan, Kingdom of Saudi Arabia, Poland, Syria and the United States.

The American FDA also stated they are committed to ensure a stable drug supply of  $^{99}\text{Mo}$ . In 2009 the Nuclear Energy Agency of Organization of Economic Cooperation and Development /OECD-NEA established the HILG-MR to ensure secure and adequate supply of  $^{99}\text{Mo}$  by working with the 34 member governments. It was noted that the capacity has increased in Poland's MARIA and Czech Republic's LVR-15 Reactors. Also noted was the Australian



OPAL reactor is increasing their  $^{99}\text{Mo}$  production capacity by 2016. The FDA concluded that the potential for  $^{99}\text{Mo}$  shortage will continue especially if there are multiple unplanned shutdowns. They believe  $^{99}\text{Mo}$  supply in 2015-2020 may be tight but the new sources additional reactors and active coordination of reactor production schedules should make  $^{99}\text{Mo}$  production manageable.

The CAMRT, through its CEO, Francois Couillard, has organised meetings in Canada with various Medical Imaging Team partners and internationally with the ISRRT. They will continue to probe industry until a clearer scenario emerges. A teleconference with all major stakeholders including Dr Sandy Yule and Terry Ell from the ISRRT,

had been scheduled for further discussions. This teleconference has been postponed and to be re-scheduled in the near future.

The ISRRT will continue to monitor the situation through close communications with professional societies, governmental agencies, industry/ suppliers, and other experts. We will also communicate to our members & other stakeholders and new information we receive that is relevant to this issue. At any opportunity available the ISRRT will become engage in discussion with the members, producers, governments and other stakeholders that are involved in this and report there finding back to their member societies.



# IIRRT CPD

Sinead O'Sullivan, IIRRT CPD Officer

THE IIRRT endorsed and provided HSE CPD funding for 15 CPD events from January to July 2014. These study days covered a range of topics including mammography, neuro imaging, red dot, overview of a departmental CPD program [Cork, Galway, Cavan], oncology imaging, transvaginal ultrasound, radiation safety, MRI, DXA scanning, national radiation therapy study covering general radiation therapy topics of interest, Varian study day and finally the radiation therapy incidents study day.

## List of study days to date

- Breast Check Study Evening January 30, Dublin
- Stroke Study Day UCD February 1, UCD Dublin
- Red Dot with Comments Study Day February 8, St James Hospital, Dublin
- National Radiation Therapy Study Day March 1, Trinity Dublin
- Galway CPD Study Day March 8, Galway
- Interdisciplinary CPD Conference March 19, Harold's Dublin
- DXA Study Day St James March 29, St James Dublin
- Beaumont Oncology March 29, Beaumont Hospital
- MRI Study Day March 29, Belfast
- CPD study day April 5, Cork
- Transvaginal study day April 26, UCD Dublin
- Radiation Safety Study Day May 10, Mater Dublin
- CPD study Evening Cavan May 22
- Varian Study day June 19/20
- Radiation Therapy Incidents study day July 5



## CPD events September-November 2014

- Psycho-social oncology and palliative UPMC Whitfield Waterford September 28
- The digital journey – how is it for you? UCD September
- Anatomy Refresher/ Basic Red Dot Course Brookfield Cork September/October
- More for less? Best practice in a modern imaging environment
- MRI study day Mater October 4
- CT Study Day AMNCH Tallaght October 4
- IIRRT National Conference October 11
- Post mortems and Imaging UCD October 18
- CT Study Day Shelbourne Hotel October 18
- Tullamore CPD study Evening October
- Mid-western Radiation Therapy Mater Private Limerick November 8
- Reporting and Ultrasound UCD November
- Breast check study evening November 15

## CPD FUNDING PROPOSAL

The IIRRT submitted a CPD Funding proposal to the HSE based on local learning needs, derived from feedback from CPD events nationally in 2013 and early 2014. This proposal was submitted on March 31, 2014 and the IIRRT was successfully granted CPD funding on May 12, 2014. The IIRRT will continue to support study day organisers in funding local CPD events subject to the IIRRT

endorsement and funding guidelines. The IIRRT have included many different CPD plans in this proposal and will deliver this CPD program on a national and regional basis over the course of 2014.

## CPD HUB

CORU introduced the framework for registration 'Continuing Professional Development Standard and Requirements' in July 2013. With the opening of the Radiographers Registration Board there is now a duty on practicing Radiographers and Radiation Therapists to engage in CPD, and once the two year grand parenting period of the boards opening has finished, on October 31, 2015, CPD will be a mandatory statutory requirement to maintain registration. This CPD framework clearly outlines that Radiographers and Radiation Therapists should participate in a combination of formal and informal CPD activities.

The IIRRT recognise the challenges of attending study days and conferences, in terms of securing time off, accessibility and associated costs. The IIRRT believe that the development of the CPD hub is a definite service need, providing an opportunity for those who may not be able to attend numerous study days and conferences to update their existing skills and knowledge and to continually strive to provide an optimum service to the service users. E-learning has therefore become an innovative approach to complement face to face learning.

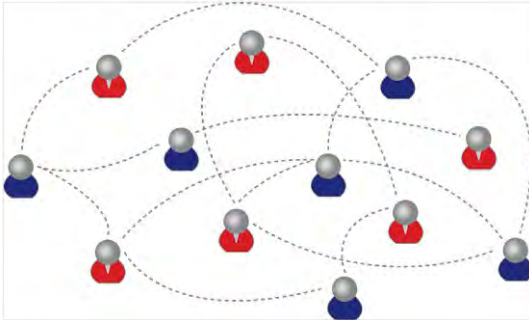
The IIRRT utilised a portion of HSE CPD funding 2013 to commence development of the CPD hub within the IIRRT website. The CPD hub is an online e-learning environment to facilitate the continual professional development of Radiographers and Radiation Therapists working in the Irish health sector and students who wish to gain particular knowledge in a specific subject matter.

The IIRRT CPD Committee has coined this environment the 'CPD Hub'.

The principle aim of the hub will be to facilitate CPD by both providing a collection of learning materials for each professions perusal and also by promoting a community of enquiry through forums and blogs whereby individuals can interact and enhance their learning through discussion with colleagues and peers. To ensure that the learning materials on offer are both up to date and of sufficient professional quality, the IIRRT will approach individuals who are considered experts in their field to create short PowerPoint presentations and incorporate suggested topics for further research and learning at the completion of each presentation. The CPD hub will incorporate self-assessment tools to assess additional skills and knowledge acquired at the completion of each block of learning. Survey monkey will also be incorporated within the 'CPD hub' to







gain constructive feedback from users of the system to assist in the future development of this site.

### CPD OFFICERS NETWORK INTERDISCIPLINARY CPD

This network is comprised of physiotherapy, speech and language therapy, podiatry, dieticians, biomedical science social workers and social care. This is an excellent interprofessional group who work collaboratively to share common themes regarding CPD and developing the overall concept of CPD.

### CPD OFFICERS NETWORK EVENTS

#### CPD Conference March 19, 2014

In October 2013, the CPD Officers Network identified the need for an interdisciplinary event introducing the concept of CPD to health and social care professionals. A common theme throughout the professions was difficulty for practitioners to find time to incorporate CPD into current practice

All workshops and sessions were focused on skills development and application of knowledge into current practice. The conference placed a strong emphasis on providing participants with new skills, rather than just information.



Above: Galway CPD Study day March 8 Speakers (L to R) Theresa O'Donovan, IIRRT Council Representative South, Sinead O'Sullivan IIRRT CPD Officer, Michele Monahan, IIRRT President, Lee O'Hara, IIRRT Council Representative Dublin North.

Below: Red Dot with Comments Study Day St James Hospital Dublin February 8, 2014.



### MEDRAY/IIRRT DEPARTMENT OF THE YEAR/ RADIOGRAPHER/RADIATION THERAPIST OF THE YEAR

Congratulations to Cavan General Diagnostic Imaging Department and St James Radiation Oncology SLRON Department for winning the Radiography and Radiation Therapy Department of the year awards.

Also Congratulations to Dean Harper, Radiation Therapist of the Year and Adrian O'Rourke, Radiographer of the Year.



CPD Officers Network at the CPD Conference March 19, 2014 (LtoR). Sinead O'Sullivan IIRRT, Laura O'Brien IASLT, Karen Fahy, Podiatry, Catherine Byrne, Social Care, Cliona Murphy, IASW, Maria McNeill, ICMS, Orla Barry MISCP, Sarah Lee, AOTI.

# Association of Educators in Imaging and Radiologic Sciences

[www.aeirs.org](http://www.aeirs.org)

Rebecca Ludwig, Ph.D., FAEIRS, FASRT



The 2014-2015 Board of Directors for the Association of Educators in Imaging and Radiologic Sciences (AEIRS) are Chairman Kenya Haugen, DM, MS RT(R), President Tracy Herrmann, Med, RT(R), President-Elect John Eichinger, MSRS, RT(R)(CT), Secretary/Treasurer Jennifer Chiu, EdD, MBA, RT(R), and Directors Joan Becker, MBA, BSRT, RT(R)(MR), Kelli Haynes, MSRS, RT(R), and Kim Metcalf, EdD, RT(R)(T)(MR). They may be contacted at [office@aeirs.org](mailto:office@aeirs.org)

If you haven't visited the AEIRS website at [www.aeirs.org](http://www.aeirs.org), please feel welcome to do so. A wealth of resources available to all educators include a job board, curriculum documents, and many helpful links. And mark your calendars now for the 2015 AEIRS Annual Meeting being held at The St. Anthony in San Antonio, Texas, on July 16-17. We invite you to join us and registration information will be available on the AEIRS website.

AEIRS is a long-time supporter of the RSNA, and invites 2nd-year students, and any students in specialty training programs (e.g. MR, CT, Ultrasound, etc.), to attend the Student Radiographer Theater presented at RSNA's 100 year anniversary celebration being held on November 30-December 5, 2014 in Chicago, Illinois. Dr Denise Collins, Chair of the Associated Sciences Committee has developed an exciting program, giving students the latest information on technological advances and career opportunities. Qualifying students may attend at no charge. Each school is permitted to register up to (5) faculty to attend with your students at no charge. Technologists wishing to attend the Associated Sciences Workshop may do so with a paid registration. Don't forget to stop by the AEIRS booth in the technical exhibit area. Detailed information is available at [http://rsna.org/Annual\\_Meeting.aspx](http://rsna.org/Annual_Meeting.aspx)

**Pan African Congress of Radiology and Imaging  
Biennial Scientific Congress**  
Website: [www.pacori.org](http://www.pacori.org)

**VENUE: SAFARI PARK HOTEL DATE: 17<sup>th</sup>-20<sup>th</sup> FEBRUARY 2015**  
**THEME: "BEYOND MDGS: RADIOLOGY TOWARDS SUSTAINABLE QUALITY HEALTHCARE"**

**Sub-Themes:**

- Radiation protection and safety
- Community and rural based radiology
- Health systems (service) and informatics
- Public health education (radiation awareness) emergency radiology
- Radiology education and training
- Economics in radiation medicine
- Clinical practice
- Medical Ethics and law

**Call for Abstracts**  
The committee will accept only a limited number of papers that meet the criteria of originality, presentation quality and topic relevance. The structured abstracts should be between 250-300 words. The deadline for abstract submission is 30<sup>th</sup> November 2014 and Abstracts should be submitted by email only to [abstracts@pacori.org](mailto:abstracts@pacori.org)

**Registration Fees:**

	Early Bird (Before 1 <sup>st</sup> Dec 2014)	After 1 <sup>st</sup> Dec and Onsite
PACORI Members	200 USD (Kshs.17, 500)	250USD (Kshs.22, 000)
International Delegates	250 USD (Kshs.22, 000)	300USD (Kshs.26, 500)
Student	100 USD (Kshs.9, 000)	150 USD (Kshs.13, 000)

**Medics Management Services (MMS), P.O.Box 29727 – 00202, Nairobi, Kenya**  
Tel: 0726830732 E-mail: [info@mmskenya.co.ke](mailto:info@mmskenya.co.ke)/[mmskenya@yahoo.com](mailto:mmskenya@yahoo.com)  
Website: [www.mmskenya.co.ke](http://www.mmskenya.co.ke)

■ 22 chapters, each one a stand-alone lecture with soundtrack and printable text

■ Over 1800 high quality annotated radiographs and illustrations

■ Index and dictionary included for use as an atlas.

■ Developed by **Dr. Ian Cowan MB.ChB. FRANZCR Radiologist New Zealand** for radiographers in remote locations

**Cost 25 pounds plus shipping**  
Obtainable from Head Office of ISRRT  
For more information email [isrrt.yule@btinternet.com](mailto:isrrt.yule@btinternet.com)

*My goal is that this resource will give you a strong base of understanding about some fundamental principles of X-ray interpretation, and knowledge about some of the abnormalities that x-rays can show to the trained eye*  
**Dr. Ian Cowan MB.ChB. FRANZCR Radiologist New Zealand**

**Radiographer Quotes from feedback following Uganda workshop on Image Interpretation.**

*All the information on the CD was superb and to me it acted as a reference source for those who do not have other reference books on imaging*

*Guided me in clinical discussion with General Practitioner for patient better outcomes with good diagnosis and decision making on case management*

*A comprehensive atlas of X-ray image interpretation.*

*It will be very useful since it gives the radiographer confidence in providing a documentary opinion on their product*

**X-ray interpretation**  
- a teaching atlas for radiographers -  
Dr Ian Cowan MB ChB, FRANZCR

© Ian Allan Cowan 2009-13  
1st Edition 2009, 2nd Edition 2013

Instructions for Windows™ 95-XP: insert disc and start  
Instructions for Windows™ 7: insert disc then open 'autorun'





Sandy Yule was the invited lecturer.

## Japan hosts 2,000+ participants

### Oita Prefecture, Japan September 19-21, 2014

Report by the [Japan Association of Radiological Technologists](#)

The **30th Japanese Conference of Radiological Technologists (JCRT)** and the **21st East Asia Conference Radiological Technologists (EACRT)** was held September 19-21, 2014 at the B-con Plaza of the Beppu International Convention Center in Oita Prefecture, Japan.

We had 494 abstracts including 54 abstracts for international sessions. There were about 2,000 Japanese participants and 61 non-Japanese participants.

Dr Alexander Yule, CEO, ISRRT delivered the invited lecture on “Past Activities of the International Society of Radiographers and Radiological Technologists and its Future Aims and Objectives”.

He talked about the history of ISRRT, the future direction of ISRRT, and especially the importance of education.

We invited the following Presidents and a Vice President from Asian countries.

Mr Lee Yong Moon from Korea, Mr Lin, Cheng-hsun from Taiwan, Mr Sala Ubolchai from Thailand, Ms Tan Chek Wee from Singapore, Mr Thai Van Loc from Vietnam, Ms Chan Lai kuan from Malaysia, Mr Jahangir Alam Salim from Bangladesh, Mr Edward Chan from Hong Kong and Mr Kok Leong Kei Fernando from Macau.

We hope that you will actively participate in the 31st Japanese Conference of Radiological Technologists (JCRT) on 20th -22nd November, 2015 at the Kyoto International Convention Center in Kyoto City.

## Diary Dates

### November 30 - December 5

#### RSNA 2014

100th Scientific Assembly and Annual Meeting

[www.isrrt.org/isrrt/Associated\\_Sciences\\_2014\\_at\\_RSNA.asp](http://www.isrrt.org/isrrt/Associated_Sciences_2014_at_RSNA.asp)

## 2015

### May 27

#### Workshop

#### Montreal

The CAMRT's Journal of Medical Imaging and Radiation Sciences (JMIRS) is offering a workshop in two breakout sessions, covering the basics of research on a practical level, and intermediate level methodologies in conjunction with the joint congress in Montreal.

Register soon at [www.camrt.ca](http://www.camrt.ca)

Questions? Please contact [editor@camrt.ca](mailto:editor@camrt.ca)

Webinars from the 2014 ELIIT Research Institute will soon be available on the CAMRT website at a modest cost.

### May 28-30

#### A Joint Congress on Medical Imaging and Radiation Sciences

#### Palais de Congrès, Montreal, Quebec

[jointcongress.ca](http://jointcongress.ca)

### June 19-20

#### Vietnam Conference Radiological Technologists combined with 2nd Vietnam-Philippine-Myanmar conference

Ho Chi Minh City

### August 20-23

#### 20th Asia Australasia Conference of Radiological Technologists (AACRT)

Suntec Convention and Exhibition Centre, Singapore

### November 20-22

#### 31st Japanese Conference of Radiological Technologists (JCRT)

Kyoto International Convention Center, Kyoto City



Qatar students

## MRT Week in Canada

ENTHUSIASTIC celebrations were held at the 500+ sites across Canada and at the College of the North Atlantic campus in Qatar throughout MRT Week.

Social media engagement was greater than ever, with more sharing of photos, tweets and eloquent posts reflecting professional pride than we have seen previously. We ran a multi-channelled social media ad campaign, adding Twitter ads to the mix of Facebook ads and Google Adwords. This began in late October, and ended the week of November 10. Our CAMRT Facebook Page reached over 350,000 during MRT Week – that is a 90% increase over a typical week.

The Facebook Group was the hub of exchange between members, with numerous posts sharing details of the celebratory activities and photographs.

Among the many memorable events were:

- Students raised over \$1100 for new Diagnostic Imaging equipment at the Chatham-Kent Hospital with a bake sale.
- Creative displays attracted the attention of patients and colleagues at St. Michael's Hospital in Toronto.
- Imaginative t-shirts and scrubs were on display in the Yukon Territory.
- Students in Qatar again joined the celebrations.



Cake cutting

## Fiji celebrate WRD

2014 World Radiography Day celebration at the Colonial War Memorial Hospital, at Suva the capital city of the Fiji islands.

Pictured above in the cake cutting ceremony from the left is the President of the Fiji Society of Medical Imaging Technologist, Mr Jone Salabuco, Radiology Superintendent, CWMH. At the centre is the general manager, CWM Hospital, Mr Soro Toutou. To the right is the consultant radiologist, CWM Hospital, Dr Paula Nakabea.

Members of the FSMIT were invited to this celebration were from CWM Hospital, Fiji National University and management of CWM Hospital.

## INTERPRETING CHEST X-RAYS STEPHEN ELLIS

25% DISCOUNT FOR ALL ISRRT MEMBERS



RRP: £24.99/\$40.00

PAPERBACK

250PP

ISBN: 9781904842774

Use discount code: **ISRRT** when ordering online at:  
[www.scionpublishing.com/ISRRT](http://www.scionpublishing.com/ISRRT), where high resolution images can also be found.



Ballarat Austin  
Radiation  
Oncology Centre

## NRRTW and World Radiography Day celebrations in Australia

Members of the Australian Institute of Radiography (AIR) from across the country celebrated National Radiographers and Radiation Therapists' Week (NRRTW) from 3-8 November, culminating with World Radiography Day celebrations.

**Alice Hall**, AIR Communications Coordinator

WORLD Radiography Day has been proudly embraced internationally for over 100 years by those involved in radiographic imaging and therapy. Here in Australia, our NRRTW has been held annually since 2007 to raise awareness among the wider community, and celebrate the achievements of our professions.

Every year the AIR sends out celebratory NRRTW packs to a high number of departments containing posters, stickers, balloons and lollipops to help with their festivities. Once again the creative juices were flowing with departments holding Oktoberfest parties (with ginger beer!), BBQs, bake-offs, morning teas, and of course, fancy dress – with many a Roentgen making an appearance!

The AIR also holds a photo/video competition of the best celebrations, and departments send in their best snaps and videos of how they have celebrated. With submissions still flowing in, and the excitement still high, we have yet to decide on this year's prize winners!

We are sharing the photos and videos submitted on our facebook ([www.facebook.com/AIRradiography](http://www.facebook.com/AIRradiography)) and twitter sites (@



**AIRradiography**), using #NRRTW and we encourage everyone to take a look! It has been a pleasure for us as an organisation, and for our members, to follow all the activity happening in other countries through social media. Congratulations everyone!

State branch events were also held across the country to mark World Radiography Day, such as the Queensland Branch Roentgen Dinner, the South Australian Branch Multimodality Seminar, and the BreastScreen Western Australia conference.

We are proud to join with our colleagues around the world on this day to celebrate the achievements of our professions.



Westmead Hospital



Central Coast Cancer Centre





## Myanmar celebrations

### 3rd Myanmar Medical Radiation Technologists Conference & Commemorative of 2014 World Radiography Day

**Khin Maung Tin**

3RD Myanmar Medical Radiation Technologists Conference was held at the Chatrium Hotel Royal Lake, Yangon Myanmar. About 200 participants from various modalities were attended including Ms Tan Check Wee, Regional Director for Asia Australia, ISRRT. Dr Maria Law, the Director of Education, ISRRT, could not come in time due to visa problem. However, with her generous permission, her presentation on “Global Overview of Radiography Education” was able to read by Ms Mya Mya Chaw Su, Lecturer, University of Medical Technology (Mandalay). The other foreign participants were Prof. Dr Yoshie Kodera, from Nagoya University, Prof. Dr Katsumi Tsujikawa from Fujita University, Dr Aye Min from Mary Washington Hospital, USA., Prof. Dr Anchali Krishnachinda and Prof. Dr Sivalee Suriyapee from Chulalongkorn University and Mr. Hong Wei Liang from SGH, Singapore.

In the Opening Session, the Honorable President of Myanmar Medical Association and Honorable President of Myanmar Radiology Society delivered the opening speeches. Then the message from the President of the ISRRT Dr Fozy

Peer was read by a Vice President of the MSMRT. The President of the Myanmar Society of Medical Radiation Technologists also delivered a welcome speech.

The Scientific Session was started after the morning coffee break. 17 papers were read.

The Gala Dinner was held at the same date at Royal Garden Restaurant, Royal Lake, Yangon.







Participants at the World Radiography Day in Lagos State.



Evelyn Ogunleye, a Radiographer at the Chevron Hospital, Lekki-Lagos with a colleague.

## Nigeria celebrates WRD

The World Radiography Day was celebrated in various cities in Nigeria including, Lagos, Abuja, Enugu, Ibadan, Warri and Lekki among others. There were lectures, road walks, talk shows and seminars.

**Ayo Okhiria**, Regional Coordinator Africa, Public Relations

OFFICIALS of the Radiographers' Board also appeared on National Television to inform and educate the citizens on various aspects of the profession and practice of radiography.

Yours sincerely attended the event organised by the Lagos State Chapter of the Association of Radiographers of Nigeria which took place at the Auditorium of the Lagos State University Teaching Hospital (LASUTH).

At the event, lectures were delivered by Prof. Dr Ahidjo (Interventional Radiologist and Dean of the College of Medical Sciences, University of Maiduguri); Prof. KK Agwu (University of Nigeria, Enugu Campus) and Prince Ayo Okhiria. The lectures were

on the Historical Perspective of World Radiography Day; Mentoring in the Profession; and Code of Practice, Professionalism and Ethics.

Also present at the event were principal personalities in the Radiology Community of Nigeria including The Chairman of the Radiographers' Registration Board, Alhaji Sanni; Professor GOG Awosanya (Provost of the College of Medicine, Lagos State University); Rad Musa Dambele, National Secretary of the Association of Radiographers of Nigeria; The Chairman of Lagos State Branch, Hon. AFK Bakre.

Radiographers at the different venues appeared in branded T-shirts and caps made for the occasion.



Prince Ayo Okhiria, delivering a Guest Lecture at the World Radiography Day Program at the Lagos State University Teaching Hospital



Prince Ayo Okhiria, Prof. Awosanya, Hon. AFK Bakre and Rad Musa Dambele and other attendees at the Lagos event





A section of Radiographers and Students radiographers at the Ceremony.



President UGSSR; Vice President GSR; HOD Radiography, University of Ghana; President GSR.

## Ghana celebrations

World Radiography Day commemoration, as it happens world over, is marked in Ghana by events that underscore the role played by the noble profession of radiography. In Ghana, there is much more to it than just an act of remembering the past.

THE commemoration and its attendant festivities bring together members of the profession and unite us under one roof as people of same Community. The occasion is also used to promote the profession and spread the word about choosing radiography as a viable and specialised career alternative.

The World Radiography Day is celebrated annually in Ghana. It is celebrated by both radiographers and student radiographers.

This year's celebration was a joint effort by the mother society, Ghana Society of Radiographers and University of Ghana Society of Students Radiographers.

Among the main activities undertaken were Health outreach, Media Outreach, Hoisting of WRD Banners and D-Day Celebration.

**Health Outreach** was carried out by members of the University of Ghana Society of Students Radiographers in some selected institutions. They offered health education on prevention and treatment of Cholera and Ebola Infections, which are both hot health topics locally. This outreach was done in the days preceding the WRD.

**Media Outreach** was carried out by both radiographers and student radiographers and was done before, during and after the WRD.

Both the electronic and print media were involved. Staff radiographers were on air in the regions and students were on air in Accra. Among the radio (FM) Stations which collaborated with us locally were Radio Universe of University of Ghana, Savannah FM and Fila FM both of the Northern Regional Capital, Tamale.

The purpose was to educate the Ghanaian public on the significance of the WRD and more importantly throw light on Radiography as an enviable health profession.

**Hoisting of WRD Banner.** The Ghana Society of Radiographers designed a special banner to mark this year's WRD celebration. The design depicted the international theme, Radiography... Advancing Imaging and Healing Globally. It also displayed images of Radiographers at work in both Medical Imaging and Radiotherapy and finally the logos of the Ghana Society

Radiographers (GSR) and that of ISRRT.

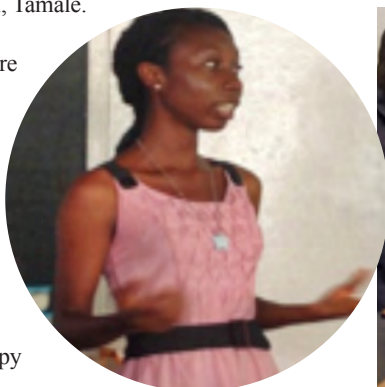
Similar banners were hoisted in all the teaching hospitals in the country. This was done to create awareness among the public on the significance of the day and the role radiography profession plays in the healthcare delivery in the country.

**The D-Day Celebration.** There was a special ceremony on the afternoon of November 8 to mark WRD properly. The event was chaired by the Head of Radiography, School of Allied Health Sciences of the University of Ghana. In attendance was the President of the Ghana Society of Radiographers, who delivered the keynote address. Other national executive officers and members of the Society were present so were large number of both executive officers and members of the Society of Student Radiographers.

**Speech and Talk.** The address of the President of GSR highlighted on the current state of radiography in Ghana – the advancement and drawbacks. He also emphasized on the need for the local health authorities to acknowledge the role extension capabilities of the radiographer in Ghana. His watch phrase for radiographers was integrity and excellence.

The Vice President of GSR dazzled the audience with his insightful talk on Job Opportunities after school.

WRD 2014 was memorable and we look forward to the 120th WRD with great anticipation.







## Beach celebrations

November 8, 1895 – November 8, 2014 ... One hundred and nineteen (119) years ago, Professor Wilhelm Conrad Röntgen discovered x-rays, the unknown radiations which revolutionised medical diagnosis. Most radiographers all around the world and particularly in Africa hold this important day close to their hearts and are aware that WRD is to be celebrated globally as a tribute to the Nobel Peace Prize-winning founder of x-rays.

**Boniface Yao**, Regional Director for Africa

THIS year, on the occasion of the 8th International Congress of Francophone Radiographers held in Abidjan, Côte d'Ivoire, delegates from nine French speaking countries gathered to celebrate the event at the wonderful beach of Grand Bassam, a UNESCO patrimony.

As a reminder, the Regional Director Africa announced the theme of the current WRD "Radiography ... Advancing Imaging and Healing Globally". He then read the World Health Organization's message to radiographers for the occasion and encouraged delegates and member societies to adopt this theme during the range of different activities that they provide to the public. He advised the delegates to include the ISRRT's value in their everyday life and professional practice, that is professionalism, excellence, dedication, compassion and integrity.

After this message, the delegates executed a standing ovation as

a sign of gratitude to Professor Roentgen and sang together happy birthday to the discovery of X-rays in a festive mood as they saw the wonderful cake especially dedicated to the event.

The exciting program of commemoration of the WRD continued through a friendly soccer party in the fresh air of the beach and ended with the sharing of a lunch and refreshment offered by the organising committee.

The organisation of the World Radiography Day 2014 has been an exceptional opportunity for French speaking radiographers to celebrate together the ISRRT, the voice of radiation medicine technology throughout the world. Once more, solidarity has been highlighted in the purpose to bring Africa to the world.







## Sri Lanka celebrates on a grand scale

Radiography Day posters and banners were displayed in the hospitals island wide. The main item was an academic session held at the Hotel Ramada Colombo on November 9, 2014.

### **V.G. Wimalasena,**

President and ISRRT Council Member, Sri Lanka

The day began at 9am with the national anthem and lighting of the oil lamp followed by a minutes silence for those who have passed away. The President made the Welcome Speech.

Folloing on from this Mr K.P. Nishantha, Senior lecturer, Department of Management Studies, Open University of Sri Lanka made a prsentation entitled, "Development of Management skills and improvement of leadership qualities" Part 1.

After a short break for morning tea there was the launching of "Radiographer" Magazine, pictured at right and a message from sponsors, Bayer Health Care Pharmaceuticals.

Mr V.G.Wimalasena, Principal School of Radiography spoke on MRI & Contrast media followed by Mr K.P. Nishantha delivering Part 2 "Development of Management skills and improvement of leadership qualities".

There was a hours break for lunch after which Dr Sunil Kulatunga, Lecturer, Faculty of Allied Health Sciences, University of Peradeniya, spoke on CT dose.

Early afternoon the day came to a close with a vote of thanks.





# UK World Radiography Day wrap

Further photos can be found at: [www.flickr.com/photos/119574687@N03/](http://www.flickr.com/photos/119574687@N03/)







# Workshop aids Haitian radiographers

**La Paix, Haiti**  
**April 22-25, 2014**

Report by **Rita Eyer**, former ISRRT Vice President of the Americas

As a brief reminder to begin this report, in January of 2010 Haiti experienced a catastrophic earthquake of 7.0 magnitude that resulted in the complete destruction of medical facilities and radiology training centres. Immediately following the massive destruction of this devastating earthquake a cholera epidemic occurred. Haiti is the poorest country in the Western Hemisphere and is ranked 149th of 182 on the Human Development Index. Only some of the 1970's equipment that had existed in Haiti at the time of the earthquake has now been replaced and the remainder of the equipment in this country is very outdated. It also became abundantly clear that medical radiation technologists in Haiti were in desperate need of proper radiology education especially in regards to radiation protection for patients, fellow staff, and themselves. Hands on demonstration in the clinical setting as well as didactic information packages through educational workshops were desperately required.

In April of 2013, the International Society of Radiographers and Radiological Technologists (ISRRT) Director of Education spearheaded an educational workshop in Haiti that included a CT component. Upon close inspection it was very evident to Ms. Cowling that more was required in Haiti including coverage of the basic of radiography imaging.

A second Radiography Workshop was held from April 22nd to the 25th, 2014. This workshop was able to be initiated because of the incredible support once again of the ISRRT Board of Management and the Pan American Health Organization/World Health Organization (PAHO/WHO) through Ms Kayiba Medlen and Dr Pablo Jimenez. This educational venture also included major assistance from the American Society of Radiologic Technologists (ASRT) whose close partnership and significant collaboration with the ISRRT we are once again so thankful. The major objective of the workshop was to provide Haitian radiographers with the necessary radiology education in order to improve upon the quality of images being produced and assist them to develop the

critical thinking skills to ultimately improve the delivery of patient care. Without the dedication and incredible hard work provided by Mr Philippe Gerson, ISRRT Vice President of Europe and Africa, Kayiba Medlen from PAHO, Dr Kevin Powers the Director of Education from the ASRT, and Barbara Tomasini an ISRRT practicing technologist from the USA, this Haiti Radiography Workshop would not have achieved the level of success that it did. All the instructors listed above were involved in both the very comprehensive didactic and clinical portions of the workshop with the majority of the lectures provided in French. It is imperative that lectures be provided in French and/or Creole in Haiti as these are the languages spoken and understood by the Haitian Radiographers. The lectures were as follows: Positioning, Physics, Patient Care, Quality Control and Assurance, Darkroom, Radiation Protection, Infectious Control, Pediatric Radiography, Film Critique, and Urgent Care in Radiography. In addition, an Ultrasound technologist joined the group to follow-up on the PAHO Obstetric Sonography workshop that had been offered last year through the ASRT and RAD-AID International.

The 21 participants of this radiography Educational Workshop were radiographers from not only Port au Prince, but also from provinces such as Cap Haïtien, Jacmel, Cité Soleil, Gonaïves, Hingès, Miragoane and Choccal. A visit to Bernard Mevs was requested by Dr Eunice Derivois, Directrice de la Direction de formation des Ressources Humaines en Santé au Ministère de la Santé to inquire on the Radiography Program being offered at Bernard Mevs. Also, a debriefing with the Director of PAHO in Haiti, Dr Jean-Luc Poncelet was held at the end of the workshop. It is sincerely hoped that as a result of this discussion that took place with Dr Poncelet as well as the information emphasised during the Haitian Radiography Workshop, individual personal dosimeters and a Radiation Protection Dosimetry Program for all Haitian radiographers will be initiated very soon. ►

## THE WORKSHOP

Both the lectures and practical sessions were held in La Paix. The radiographers displayed a keen interest in all the topics and were very engaged by the second day of the workshop. The radiographers did seem to comprehend basic radiography concepts although the majority of the group had not received formal training in radiography. During the hands-on component, the radiographers worked very well together and positioned patients accordingly. The attendees were curious about additional modalities and digital radiography. Many videos were shown as a result and some lectures were provided to them on digital imaging.

It was determined that based on time constraints that Infection Control practices and concepts need to be covered in more detail in future educational sessions. The radiographers did wear gloves while positioning and understood the importance of doing so. If further educational workshops are approved for Haiti in the future, more time should be dedicated to the subject areas of Infection Control and Critical Thinking. It was certainly noted in regards to critical thinking that when the radiographers were asked to identify any fault or inadequacy on a given radiograph, they were quite capable of doing so. For instance, some of the radiographers were most willing to share different positions they had learned specific to the film critiques being covered with the entire class, thus displaying a knowledge based on their clinical experience. However, most of the technologists seldom volunteered solutions to improve upon or fix problems that were evident in the production of the images. It became abundantly clear to the workshop instructors that training that has taken place in Haiti has focused mainly on positioning only and not the additional subjects required for the longevity and accuracy of the radiology services for the country.

## HOSPITAL LA PAIX

The facility sees between 60-100 patients a day. It houses an outdated Bennet WHIS-RAD and has a Darkroom for manually developing films. Both rooms have air conditioners, but were not kept clean and the radiography suite was crammed with non-functioning units. The room had no masks, gloves, or cleaning agents for infectious control. The control panel is situated outside the suite and since the KVP button was missing, the adjustments were made utilising pliers. The instructors were concerned that utilizing pliers could result in electrocution.

The darkroom was not well ventilated. The fixer and developer are often changed every two weeks while the water is replaced every three days. The films are hung to dry by the window near the control panel. Films are often dipped hastily in the chemicals most likely due to the Radiographers' workload. Within a few short months this will cause the films to change colors to brown reducing the quality of the images.

## RADIOGRAPHY PROGRAM AT BERNARD MEVS

The Radiography Program at Bernard Mevs is an eight month curriculum funded by the Clinton Foundation and operated by Linn-Benton Community College in Albany, Oregon. The program commences in October and ends May of the following year. The instructors from the Linn-Benton offer live lectures to Haitian students who have an interpreter on site. Second-year students from the same community college travel to offer hands on training and lectures at Bernard Mevs.

The curriculum currently taught in Haiti only covers general positioning examinations such as chest, abdomen and extremities, but not Fluoroscopy or any of the Interventional procedures. As Kayiba Medlen pointed out, topics such as radiation physics or other topics not directly related to "just knowing how to do exams" are not offered. This approach does not create a foundation of understanding of fundamental principles that help the radiographers adapt to newer

technologies when they become available. Things such as transitioning from film/screen imaging to digital systems where there is a great chance for excessive patient exposure without operators seeing an appreciable difference in displayed images. As for the possibility of having the second-year students offering training in the train-the-trainer approach, there would likely be a limitation as far as their ability to transfer knowledge. It was also not clear at all with the training offered if there is an assessment of the students to determine any progress. The program at Bernard Mevs seems to be a short term solution by training radiographers to take proper x-rays, but may not be of significant beneficial to the programme in the long run. Ideally, the obsolete equipments in the radiography suites should be discarded. The transition to digital equipments will hopefully take place in the not-too-distant future ensuring that the analogue equipments will soon be unavailable. Additional continuing radiography education in Haiti is essential and should be offered to the Haitian radiographers on a regular basis using webinars and in country workshops. However, it will be vital to have French speaking instructors for both the webinars and in country workshops. Topics must include Radiation Protection, Film Development which could also include Digital Imaging, Infection Control, Critical Thinking Skills, and Physics, as well as Positioning and Anatomy. It is sincerely hoped that the ISRRT in collaboration with PAHO are called upon in order to identify instructors who are able to offer lectures through webinars. Additional resources can hopefully once again be provided through the ASRT, the Canadian Association of Medical Radiation Technologists (CAMRT), and the Association Française du Personnel Paramédical d'Electroradiologie (AFPPE). The ISRRT, ASRT, CAMRT, and the AFPPE are definitely required in order to provide support to the Haitian Association of Radiographers- the Association des Technologues en Radiologie d'Haiti (ASTERAH) to allow growth as an association.

Once again I would like to sincerely thank Philippe Gerson, Kayiba Medlen, Dr Kevin Powers and Barbara Tomasini in the development and presentations of this excellent Haitian Radiography Workshop. Their dedication in the provision of radiography education to all radiographers throughout the world is truly commendable.

The pictures here depict the incredible hardships faced on a daily basis by the Haitian radiographers striving to produce diagnostic images on the very antiquated Radiology equipment located in Haiti.



Equipment not able to be used – either not working or unable to be installed.



SEARC cup handing over to Singapore, the next host country.



## 1st South East Asia Radiographers Conference (SEARC) in conjunction with 2nd Asia Radiotherapy Symposium

**Equatorial Hotel  
Malacca, Malaysia  
August 21-23, 2014**

Report by **Tan Chek Wee**, ISRRRT Regional Director Asia Australasia

THE 1st South East Asia Radiographers was held in Malacca, Malaysia at the Equatorial Hotel from August 21-23 2014.

The idea of having a South East Asia Conference was first initiated in 2012 at the 27th Malaysia Singapore Radiographers Conference where both the Malaysian Society of Radiographers (MSR) and Singapore Society of Radiographers agreed to the move to change the joint conference to a South East Asia Radiographers Conference to provide a platform for Asian countries to come together every year to share knowledge and promote networking among the countries. The joint meeting between Singapore and Malaysia has come a long way since the inception of the first meeting in Kuala Lumpur in 1978 with the aim of fostering closer ties between radiographers from both countries. Over the years, the conference has attracted delegates not only from both countries but also expanded to include an international mix of delegates from the South East Asia region. It is thus timely that our joint meeting be expanded to include other countries in the region. Countries that participated in this event include Australia, Hong Kong, Indonesia, Japan, Korea, Macau, Malaysia, Myanmar, New Zealand, Philippines, Singapore, Taiwan and Thailand. This is indeed a new milestone as we move into a new chapter in the history of both societies.

The theme of the conference “Beyond Innovation and Optimization.” featured a good mix of topics from both local and international delegates. The conference began with a simple opening ceremony when all the representatives from the ASEAN country placed their country flag on





the SEARC memento cup.

Dr Maria Law, the Director of Education of ISRR was the invited keynote speaker for the conference. The two and a half day conference consisted of lectures and proffered papers not only from the South East Asia region but also included invited speakers from Australia, Japan, Hong Kong, Taiwan and the United Kingdom.

The student presentations were remarkable when all students presented in English which is not their mother tongue. In addition to the scientific session, there was also a gala dinner on the last day of the conference. The highlight of the gala dinner was the spontaneous performance by delegates from different countries. All the delegates had a wonderful time enjoying the sumptuous dinner and song and dance performance by the different countries.

The 1st SEARC was a great success with over 200 participants from 12 different countries attending the conference. The conference was held in conjunction with the 2nd Asia Radiation Therapy Symposium (ARTS). Next year, the conference will be held in Singapore in conjunction with the 20th Asia Australasia Conference of Radiological Technologists (AACRT) from 20th-23rd August 2015 at the Suntec Convention and Exhibition Centre. I look forward to welcoming all of you to the conference in Singapore.



Dance performance by Japanese delegates and students.



President of MSR, Madam Chan Lai Kuan delivering the opening address for the 1st South East Asia Radiographers Conference.



Dr Maria Law presenting token of appreciation to speaker.







## Vietnam RTs moving forward

### Vung Tau City, Vietnam August 22-23, 2014

Report by **Thai Van Loc**, Vietnam ISRRT Council Member

Ho Chi Minh City Association of Radiological Technologists (HART) is the first association of Vietnam to be an ISRRT's member.

On August 23rd 2013, Vietnam Association of Radiological Technologists (VART) was established. We are a very young association and need to have support from ISRRT and the countries all over the world. We will study and learn a lot from all of you.

In August of this year we organised a successful, enjoyable and interesting 2nd Annual Conference of Vietnam Association of Radiological Technologists (2nd VCRT) in Vung Tau City, Vietnam from August 22-23 2014.

The theme of conference was: "Vietnam RTs: moving toward the ASEAN Economic Community, Asia and Australia Conference of Radiological Technologists 2015 in Singapore, World Radiography day November 8, 2014"

This year, there were approximately 250 technologists from cities and provinces of Vietnam who attended our conference. Furthermore, there were two Vietnam professors who also participated in the conference and delivered interesting presentations. Especially, we had the honour to have the participation of Dr Napapong Pongnapang – The ISRRT's Vice President of Asia and Australia region and the participation of representatives from Thailand, Taiwan, Korea, Shiga prefecture of Japan, Australia, France and Cambodia. The conference was successful with eight lectures from support countries and 18 oral presentations. This is a great opportunity for Vietnam RTs to update and enhance their knowledge that is improving their professional practice.

The goals of this conference we were:

- To open a new perspective for Vietnam RTs after so many years to close the door (nearly 35 years). Now, it's time to wake up.
- To help and introduce the Cambodia Association of Radiological Technologists to representative of ISRRT Dr. Napapong Pongnapang. Thank you was sent to following societies due to their support:
- The Vietnam society of Radiology and Nuclear medicine



- Shiga prefecture Association of Radiological Technologists (Japan)
- Taiwan Association of Radiological Technologists
- Korea Association of Radiological Technologists.

From this successful conference, we will organise the next VCRT combined with 2nd Vietnam-Philippine-Myanmar conference at Ho Chi Minh City on June 19-20, 2015.





## Image Gently® campaign expands to Dentistry: Urges dental professionals to child-size radiation dose

### Dental Associations Join Alliance for Radiation Safety in Pediatric Imaging

The Image Gently® campaign has developed online educational and scientific materials to help dental professionals optimize radiation dose used in imaging exams performed on children. Image Gently has also produced downloadable materials to help parents ask more informed questions of their dental providers whenever scans are recommended for their children.

“Dentists use x-rays to diagnose disease or damage that isn’t visible during an exam. Children may require x-rays as an adjunct aid to diagnose dental decay or to assess growth and development for orthodontic treatment,” said Charles H. Norman III, DDS, President of the American Dental Association. “It’s important for dentists and parents to have meaningful conversations about children’s x-rays. I’m pleased that the ADA is part of the Image Gently Alliance, whose goals align with the ALARA or ‘as low as reasonably achievable’ principle, which the ADA has long advocated.”

Imaging can serve an important role in improved dental health. However, children are in general more sensitive to radiation than adults. As such, health care providers should reduce radiation dose used in children’s imaging and avoid unwarranted imaging. When dental imaging procedures are considered, dental providers are urged to:

- **Select X-rays for individual needs, not as a routine.** Use X-rays only when essential for diagnosis and treatment – based on a review of the patient and their dental history.
- **Use the fastest image receptor available.** When film X-ray is used, select “E” or “F”-speed. Set exposure parameters as low as possible for diagnostic digital imaging.
- **Use cone-beam CT (CBCT) only when necessary.** CBCT should be restricted in children to cases in which it is essential for diagnosis and treatment planning.
- **Collimate beam to area of interest.** For intraoral X-rays, collimation should be rectangular to match recording area of detector. For extraoral X-rays, including cone-beam CT, restrict beam to the area needed for diagnosis.
- **Always use thyroid shield.** The thyroid gland in children is particularly sensitive to radiation. Use of a properly positioned shield significantly reduces the dose to the thyroid.

- **Child-size the exposure time.** Less exposure time needed for children as oral structures are smaller than in adults.

Dental professionals are also urged to visit [ImageGently.org](http://ImageGently.org) and pledge to Image Gently.

“The materials made available through the Image Gently campaign will help general and specialty dentists ‘child size’ their imaging techniques and provide even better and safer treatment to all patients, especially children,” said Alan G. Lurie, DDS, Ph.D., immediate past president of the American Academy of Oral and Maxillofacial Radiology. “To have North American and European dental societies involved in Image Gently sends a clear, strong message about the importance of this effort.”

The Image Gently campaign is conducted by the Alliance for Radiation Safety in Pediatric Imaging, founded by the Society for Pediatric Radiology, the American College of Radiology, the American Society of Radiologic Technologists and the American Association of Physicists in Medicine. The campaign now encompasses more than 80 medical, surgical, dental and other professional health care organizations serving more than a million providers worldwide.

“We are incredibly pleased that the major dental societies have opted to take part in Image Gently and take steps to ensure that the care they provide is as safe as possible. We encourage all dental professionals to take advantage of the materials on the Image Gently website and factor them into their clinical decision making,” Marilyn Goske, MD, co-chair of the Alliance for Radiation Safety in Pediatric Imaging.

Image Gently alliance members in dentistry include the American Dental Association; American Academy of Oral and Maxillofacial Radiology; American Association of Oral and Maxillofacial Surgeons; American Association of Endodontists; American Academy of Oral and Maxillofacial Pathology; American Academy of Pediatric Dentistry; American Academy of Periodontology; American Dental Education Association; Canadian Association of Oral and Maxillofacial Radiology; and the European Academy of DentoMaxilloFacial Radiology

Health care providers are urged to visit the Image Gently website and pledge to do their part to “child-size” the radiation dose used in children’s imaging.





Representatives during Stakeholders Meeting on justification, organized by HERCA in Brussels, September 2014.

## HERCA stakeholders meeting on “Justification of medical exposures for diagnosis”

Brussels, Belgium  
September 26, 2014

Report by **Dimitris Katsifarakis**, ISRR Regional Director Europe

ON September 26, 2014 HERCA (Heads of the European Radiological Protection Competent Authorities) organised a multi stakeholder meeting kindly hosted by the Federal Agency for Nuclear Control in its premises in Brussels. The objective of the meeting was to exchange views with a variety of key stakeholders on issues with regard to the justification process and the application of the principle of justification in medical imaging procedures. The principle of justification requires that for each medical imaging procedure, the positive contribution to patient care is sufficient to outweigh any possible detriment caused by the radiation exposure.

Stakeholders invited to this meeting were WHO, IAEA, ISR, EC-DG Ener, ESR, EANM, EFRS, EFOMP, WONCA, PFPA, and COCIR. For the first time ISRR was invited as a stakeholder after the initiative of HERCA's WP justification chair, Dr Van Der Bladel, following a fruitful and friendly discussion with myself during our meeting on Justification, organised by IAEA in Vienna earlier this year.

A working paper was produced by Dr Van der Bladel earlier of this meeting to stimulate the discussion. The ISRR's officers, particularly Director of Prof. Practice Mrs Donna Newman, and Director of Education Dr Maria Law and the colleagues of their working groups commented on that paper.

WHO was represented in the meeting by Dr. Myriam Michall, a consultant radiologist who during her contribution, amongst others, made reference to the importance of the cooperation with the ISRR and the ISR in improving the justification process of medical exposures. She underlined the fact the ISRR is an important stakeholder and supporter of the “Bonn call for Action”.

The representative of the IAEA Dr. Ola Holmberg during his presentation focused on the International BSS and the outcomes of the technical meetings organised by IAEA, on justification in which we as ISRR have participated.

The representative of the European Commission Dr Simeonov presented the provisions that the new BSS European Directive has on justification and focused to the term “the undertaking” (of the examination) which is included in the BSS Directive, stating that this term needs a clear definition possibly at a local (hospital) level, as it has certain legal responsibilities.

The HERCA's Chair, Dr Magnusson amongst others, made a clear reference on the role of the radiographer as a link in the justification chain. Dr Steve-Ebdon Jackson, HERCA's co-chair, spoke on the position paper of HERCA on justification and commented that although the tasks can be delegated, the responsibilities cannot, and for doing so, special and specific education and training for the justification process must be provided to those who have to undertake it.

Dr Van der Bladel commented on the term “request” versus the term “order” or “prescription” physicians using in their communication with the patient and proposed that those terms must be changed.

Also he made a clear reference on the role of the radiographer in the justification process, arguing that “the radiographer has physical contact with the patient and it is probably the only who really meets the patient during the examination”. He also said that the radiographer has a corresponding commitment in patient tailored communication.

Specific time for their contribution had been allocated to the European professional societies (ESR, EANM, EFRS),

Pr. Frija, ESR Past President, mentioned the initiatives of the ESR on Euro safe imaging (call for action), the ESR iGuide, a CDS system for Europe as a clinical decision support tool, and underlined that the unjustified procedures will have a negative impact on health care delivery as a whole. The refer physician should not have any personal financial interest in the imaging facility in order to avoid self-referral, concluded.



Dimitris Katsifarakis, Dr. Van Der Bladel, and Pr. Graciano Paulo during HERCA meeting on Justification, Brussels, September 2014.

The president of the EFRS Pr. Graciano Paulo during his presentation mentioned the gap characterising it as “chaos” existing between the English quotation of the European Directive on medical exposures and the translation of the crucial terms into various national languages. To avoid that confusion in translation he asked the representatives of the European commission to be as specific as they could to the used terms, particularly to the term of the Radiographer as all the European societies have agreed and accepted it to name the profession. He mentioned the close relationships EFRS has with the ISRRT as an umbrella organisation for the radiography profession globally, and argued that the role of the radiographer on the justification process is to be the gatekeeper of the system.

In the afternoon session I had the opportunity during my talk to inform the participants on the attention paid by the ISRRT on the role of the radiographers on justification in medical exposures, globally. I alleged ISRRT’s announcement for a research award of 5000pounds for 2 years under the theme: “the role of the radiographer in the Justification of medical exposures” underlines it. I invited them to disseminate this information on the research award to their departments or countries by informing the radiographers that they are working with to visit our website for further information. My personal belief is that the Board of the ISRRT should be very proud as they have made that research award announcement on time.

I made a reference on the response paper that our Board has already prepared, positively commenting to Dr Bladel’s working paper, and promised that the following days we will forward it to him. I alleged that radiographers are the professionals who are implementing the practical aspects of the justification at the point of the delivery of the

services to patient, and this makes them important gatekeepers of the radiation protection of the radiology services. I also underlined on how important for the ISRRT is to promote the Justification not only in Europe but also internationally, by cooperating closely for that purpose with WHO, making use of the smooth long term cooperation experience that we have with WHO.

Also I said that we are looking forward for further cooperation with HERCA.

I also expressed my personal concerns whether in health systems outside the National Security coverage, (like out-of-pocket-money paying system) radiology service providers (business enterprises) can support the idea of the justification. Participants shared my concerns on that. I proposed a possible solution, to invite next time in the HERCA meeting big private health insurance companies to hear how they approach the situation of the excessive referrals for radiology examinations of their customers by the clinicians. There was no objection on my proposal.

Finally I concluded by saying that we will involve in our board discussion topics our influence to the radiography curricula programs, in order to further the communication skills and justification process at the point of the delivery of services to the patient during the basic radiography studies, globally.

Since the meeting had to come to an end all agreed that there was a unanimous consensus that the justification is a multi-stakeholders task and further discussion is needed. Proceedings of the meeting will be available within the next few days and participating organizations have to make comments on them. A new meeting for taking decisions will be programmed for the year 2015.



# Professional Practice Committee

## News from regional coordinators from around the globe

**Donna Newman**, Director of Professional Practice  
**Chris Steelman**, Regional Coordinator of America's  
**Piret Vahtramae**, Regional Coordinator of Europe  
**Elizabeth Balogun**, Regional Director of Africa  
**James Ho Namkoong**, Regional Coordinator Asia/Australasia

### Donna Newman B.A. RT ( R ) CNMT FAST Director of Professional Practice

MUCH work has been happening over these last several months since our last article in *News & Views*. The Professional Practice committee, the Education Committee and the ISRRT board members have been collaborating on several projects where the ISRRT was asked to comment (for feedback) on (specific) position papers including commitment to future projects on Justification and position of occupational exposure reduction with the use of medical devices.

The Professional Practice committee wanted to share our work on these collaborations with our member societies to keep you all up to date on the news affecting professional practice with the ISRRT. Our regional coordinators have also contributed news from around the globe.

In June 2014, the 13th meeting of the association HERCA was held where the Heads of European Radiological Protection Competent Authorities (HERCA) approved the document "Justification of Individual Medical Exposures for Diagnosis: A HERCA Position Paper". The document is intended to provide the regulator's view on the roles and responsibilities in the justification process of medical exposures. Improving the application of the justification principle in medical imaging is the responsibility of many stakeholders. The paper covered the Justification process being completed prior to the exposure taking place and consideration for the following:

1. Adequate information regarding the clinical condition(s) of the patient, relevant to the imaging request – that must be available including known possible contraindications (eg pregnancy, breastfeeding)
2. The diagnostic question(s) which should be addressed.
3. Where practicable, information, with regard to possible previous/concurrent examinations needs to be considered.
4. The decision on the appropriate imaging procedure including the option of one that does not involve ionizing radiation.
5. Traceability of the items above needs to be brought back to the referrer and practitioner when indication or duplication occurs.

Dimitris Katsifarakis represented the ISRRT at the HERCA meeting titled Justification of Individual Medical Exposures, in Brussels in September this year, where stakeholders were brought together to discuss the position paper. The approved position paper that was developed by Mr Lodewijk Van Bladel titled "Improving the application of the principle of justification in medical imaging" was presented at the meeting. As a Stakeholder the ISRRT was asked to provide feedback on the position paper.

The document was sent out to the regional coordinators of the Professional Practice committee and the regional coordinators of the Education Committee and several ISRRT Board members that had been involved in the Bonn Call to Action. I compiled the comments and grouped the similar comments together or summarised the similar ideas into our final document. I want to thank Stewart Whitley as he

did some final revisions on the wording and grammar on this document for me. I really appreciated his writing skills.

An overview of the comments included that the ISRRT welcomed the content and thrust of the document and supported in principle the general concept, the elements of the justification process and associated responsibilities together with the aids. The ISRRT was pleased that the document acknowledges the role of the radiographer is acknowledged as in playing an integral role in the justification process.

HERCA also asked the ISRRT to consider a commitment to a project relating to improving justification in the medical imaging field using the SMART (Specific/Measureable/Assignable/Realistic/Time-related. Refers as to how an organisation proposes to undertake and follow the SMART approach and its specific role and ability to improving justification in medical imaging) approach and report their finding back to HERCA at its next meeting. The request was sent by the ISRRT to the Education and Professional Practice Committees and ISRRT Board members Stewart Whitley and Dimitris Katsifarakis for consideration. The ISRRT working group on this topic has drafted recommendations which will be further developed by the ISRRT. Among the recommendations are the following:

1. To develop a web based decision tool for radiographers for the Justification of Imaging Procedures using ionizing radiation;
2. This will be placed on the ISRRT website and can be used by radiographers in their daily practice and by educationalists for use in their teaching. It will help in furthering and expanding the capabilities of the radiographer to communicate the radiation risks to patients, referring clinicians by using evidence based data.

Thanks to everyone who contributed their expertise to these important documents. The success of the ISRRT only comes because there are so many dedicated professionals who are willing to review content for accuracy, gaps and expert information relating to their part of the profession. The ISRRT will continue to be asked for feedback as long as we contribute.

The process as to how the ISRRT reaches out to get this expertise on different subject matter is as follows. The ISRRT is asked as a stakeholder to review different document and provide feedback. If this document is related to professional practice or radiation protection it is sent out by the Director of Professional Practice to the relevant Regional Coordinators who in turn reach out to experts in their region asking for review and feedback. On behalf of the ISRRT the information received back is compiled into one report by the Director of Professional Practice and send it to the group who asked for the review. If you are asked for input please consider sharing your expertise with the ISRRT. It is only through the continued input of member organisations and individuals that the ISRRT has such great success.

In my role as Director of Professional Practice I serve as the ISRRT liaison person representing the technologist's voice to an ICRQS (International Commission on Radiological Quality and Safety) working group on Occupational Radiation Protection. The ISRRT

was asked to give its view and position on this topic in order for the ICRQS to speak with one voice on the subject. There was a very short turnaround time on this project and requests for comments was sent out to the ISRRT Professional Practice Committee along with the ISRRT Board members for feedback. The feedback was provided within the deadline given. A complete report on this will be provided after the meeting in December 2014.

Once again I want to encourage our member societies to participate in the survey that is coming very soon regarding ISCO (International Standard Classification of Occupations). Cynthia Cowling and her university helped facilitate the development of the questionnaire that is being sent out. The ISRRT will be surveying all member countries to help get supporting data of the work and education of our profession. As most of you already know we have been working with the EFRS jointly to affect reclassification of the skill level of radiographers. This survey is very important and we need a complete picture of the global world to aid in the progress of this reclassification.

The final version of the Basic Safety Standards (BSS) is available for purchase on the WHO Website. As professionals the BSS can be a great asset in our workplace and health care setting.

### Professional Practice news from America's region

#### Chris Steelman M.S., R.T. (R) (CI), RCIS

The American Society of Radiologic Technologists' (ASRT) government relations department has been extremely busy providing legislative counsel to states pursuing radiologic technology licensure and working in Washington, DC to push for reimbursement for radiologist assistant (RA) services. It also continues to seek basic minimum education standards for radiologic technologists who perform services for patients within the Medicare framework.

At the state level ASRT affiliates are taking steps to promote the pieces of legislation. The Michigan, North Carolina and Missouri affiliates have hosted advocacy days in their respective state capitols this year. Hundreds of technologists have visited with lawmakers to educate them about the need for strong licensure standards. During the second half of this year, the ASRT's government relations team has been working with several non-licensure states to initiate legislative efforts in 2015. Currently Alabama, Idaho, Missouri, South Dakota, North Carolina and Washington, D.C., have no licensure requirements for personnel who perform medical imaging and radiation therapy procedures. Many other states have bare-bones standards in place, allowing personnel to administer ionizing radiation after completing minimal training.

On the Federal level, the ASRT has focused on gathering support for the Medicare Access to Radiology Care Act (MARCA) legislation.

MARCA would allow facilities to bill Medicare for medical imaging services performed by qualified radiologist assistants under the direction of a supervising radiologist. In addition to MARCA, the ASRT continues its efforts on the Consistency, Accuracy, Responsibility and Excellence (CARE) in Medical Imaging and Radiation Therapy bill. CARE would set federal education and certification standards in the Medicare program for the technical personnel providing, planning and delivering all medical imaging examinations and radiation therapy treatments.

On September 24 the Alliance for Radiation Safety in Pediatric Image Imaging (the Image Gently Alliance) welcomed the dental community to its growing movement of medical professionals committed to safety in pediatric imaging. The mission of the Image Gently Alliance is to improve the safety and effectiveness of the imaging care of children worldwide. The Alliance hopes this will be achieved through increased awareness, education and advocacy on the need for the appropriate examination and amount of radiation dose when imaging children. The Image Gently in Dentistry Campaign is designed to improve safety and effectiveness of pediatric imaging of the maxillofacial complex by informing dental professionals and parents about radiation safety best practices. The campaign, supported by the American Dental Association, the American Academy of Oral and Maxillofacial Radiology and other dental specialty groups, in concert with the Alliance, aims to raise awareness of the special considerations required in pediatric dental radiology.

The Radiological Society of North America (RSNA) hosts the world's largest annual medical meeting, a week-long event which starts the last Sunday of November in Chicago. This year will be the Societies 100th Scientific Assembly & Annual meeting. More than 50,000 attendees from around the world will enjoy approximately 3,000 scientific presentations and posters covering the latest trends and topics in radiologic research. Attendees will also have access to approximately 2,000 education exhibits and informatics demonstrations. RSNA, established in 1915, is an international society of radiologists, medical physicists and other medical professionals with more than 51,000 members across the globe.

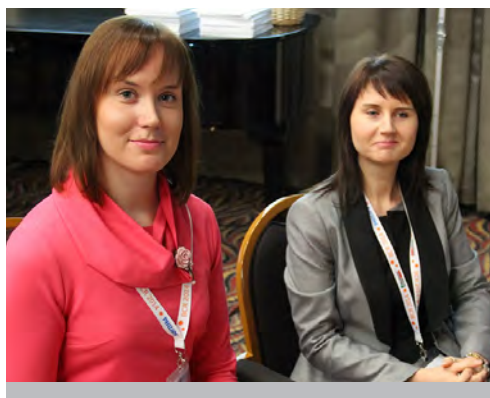
### Professional Practice news from Europe region

#### Piret Vahtramäe

Baltic Congress of Radiology 2014, Estonia, October 9-11, 2014  
Estonian summer capital Pärnu had the chance to be the host of this first time event, the Baltic Congress of Radiology, that was held jointly by the two specialties working side-by-side in the field of radiology – radiologists and radiographers. This was the 7th Congress for Radiographers and the 5th Congress for Radiologists.



Dean Pekarovic, Slovenian radiographer and Elena Karazijaite, Lithuanian Radiographer Societies Board member.



BCR Vice President and President.



Piret Vahtramäe,





Professor Sergei Nazarenko, PhD Jaanika Kumm Congress President, Professor Pilvi Ilves, Maare-Liis Kriisa Congress Vice President, ESR Board member, Piret Vahtramäe, ESR Vice President, Dr Aadu Simisker, President of Estonian Society of Radiology.



Dr Urmas Sule, Chairman of the Estonian Hospitals Association; Mr Toomas Kivimägi, Mayor of Pärnu.

Baltic Congress of Radiographers were given life 12 years ago also in Pärnu, in Estonia. Now our Baltic Congresses are organised every two years by the joint initiative of Estonian, Latvian and Lithuanian Radiographers Societies.

This year we had altogether 443 participants in our Congress. Almost half of them were radiographers and radiography students.

We had 23 different sessions and poster session with exhibition of medical equipment. Six of them were special sessions for radiographers and one session “Safety Culture in Radiology” was held for everyone. Safety in Radiology was one of the most popular topics during the Congress. All together we had 30 oral presentations, which were done by Radiographers.

On the first day we had a School of Radiology – an event that was given life by the Lithuanians in Vilnius 2 years ago. This year, the special topic for the School of Radiology was oncology/radiology and the same topic prevailed throughout our Congress.

We had great speakers from USA, United Kingdom, Netherlands, Denmark, Sweden, Finland, Slovenia, Russia, Czech Republic and of course the Baltic’s.

It cannot be overlooked that our organisers were exceptionally efficient regardless of extreme circumstances. The power was out for about 14 hours. Some of the lectures were held in another part of town, in Pärnu Hospital. Congress Center, Strand Hotel, made an exceptional effort with food, because there was a need for additional catering – a hot meal was not an option because of the power failure. A welcome reception was held in candlelight, because it was the only light option.



Lithuanian radiographers.

Conference Hotel and Reception hall were only filled with candlelight and happiness of amazing people.

After the Congress on October 13-14 radiographers had “Doppler School” were all the ultrasound specialised Radiographers or Radiographers who are working in Ultrasound examination rooms were able to participate. Speakers were from UK and Pärnu Hospital. Training consisted of hands-on practical part and lectures.

Newt Baltic Congress of Radiology will be held in 2016 in Latvia also as teamwork between Radiographers and Radiologists.

#### Professional Practice news from African region Elizabeth Balogun

This third quarter of the year has been so challenging for Africa especially the West Africa sub-region. This was due to the Ebola Virus Disease (EVD). It had majorly affected five countries of which Nigeria who is a member society (ISRRT) was affected. The present figure of the confirmed and suspected victims was put at 8,399, total deaths was put at 4,447 while the total survivor was put at 926.

The spread of the disease has grown exponentially in West Africa and has since been a thing of concern for both the region and the world at large. EVD has brought about restraint on public gathering and other activities.

However, EVD has not stopped us from practicing our profession as Radiographers. Prior to its containment in Nigeria, Radiographers shared thoughts on the preventive measure in case an EVD patient ends up on the x-ray table. It was agreed that two Radiographers will work together with their personal protective equipment and put in place ‘barrier nursing technique’. The first will position the patient while the other will handle equipment and other accessories. No known Radiographer has been reported to have been infected with EVD (at the time of writing).

Despite the above, the society in Ghana had their congress in August 2014 where well researched papers were presented and discussed. This was crowned with the election of new officers.

There was accreditation of Radiography training in Bayero University, Kano, Nigeria. This made it the sixth university in Nigeria offering radiography as a course since the minimum qualification required to practice became Bsc Radiography. A set of new graduating radiography students were also inducted by the Radiographers Registration Board of Nigeria on passing their final exams in the University of Calabar. A female graduating radiography student bagged a first class and was well celebrated being the first in the university





and the second in the country. The university based training for radiographers has translated to better research and improved evidence based practice in our region.

MEDIC WEST AFRICA is the largest Healthcare event in West Africa. It was held from October 15-17, 2014 at Eko Hotel & Exhibition Centre, Lagos, Nigeria. The meeting was put together by Afrocet (A private initiative). There were 350 international and local exhibitors from over 45 countries with three accredited conferences and twelve master classes. It was open to all healthcare workers. There



Above L-R:

Immaculeta, radiographer, National Orthopaedic Hospital, Lagos, Nigeria. Comfort, radiographer, Teddington Hospital, Lagos. Sekinat, radiographer, Africglobal Medicare, Lagos. Rohimat, radiographer, National Orthopaedic Hospital, Lagos, Nigeria. Elizabeth Balogan, Regional Coordinator for Professional Practice for Africa, ISRR. Sabith, radiographer Africglobal Medicare, Lagos. Micheal, intern radiographer.

Left: Ayo Okhiria and Elizabeth Balogan.

were over 30 radiographers in attendance for the three days of the conference with the largest number on the second day where there were two master classes on CT and MRI. The CT master class was on CT-Colonography.

CT-colonography (CTC) is relatively new in clinical applications. It has the same sensitivity with optic colonoscopy which has been the 'Gold standard' for diagnosis of colon pathologies. CTC is less invasive, has no need for patient sedation, cost effective and could lead to extra colonic findings.

## EBOLA VIRUS

**Ebola hemorrhagic fever (Ebola HF)** is one of numerous Viral Hemorrhagic Fevers. It is a severe, often fatal disease in humans and nonhuman primates (such as monkeys, gorillas, and chimpanzees).

Ebola HF is caused by infection with a virus of the family Filoviridae, genus Ebolavirus.

### PREVENTION

Wearing of protective clothing (such as masks, gloves, gowns, and goggles)

The use of infection-control measures (such as complete equipment sterilization and routine use of disinfectant)

Isolation of Ebola HF patients from contact with unprotected persons.

### SIGNS AND SYMPTOMS

- A Rash
- Red Eyes
- Hiccups
- Cough
- Sore throat
- Chest pain
- Difficulty breathing
- Difficulty swallowing
- Bleeding inside and outside of the body
- Fever
- Headache
- Joint and muscle aches
- Weakness
- Diarrhea
- Vomiting
- Stomach pain
- Lack of appetite

### TRANSMISSION

Direct contact with the blood or secretions of an infected person

Exposure to objects (such as needles) that have been contaminated with infected secretions

Source: cdc.gov/

**INQUIRER.net** Infographics by Bernard Esguerra



Its application in West Africa is uncommon due to low occurrence of colon cancer in the region, despite the prevalence of colon cancer among the black population in America and South Africa.

CTC can be supplementary to optic colonoscopy and should be available to all that needs it since it has been found to be the patient preference for Cancer screening and other colonic pathologies. A standard CT machine can be used (16-256 slice CT). The radiation dose from CTC is 2-7.8 mSv which is considered to be relatively low. The advantage of the Virtual CT-colonography over the conventional colonography was discussed extensively.

I will like to close by saying: The world is a global village, what affects one affects the other. 'EBOLA is REAL'.....help contain it.

### Professional Practice news from Asia/Australasia

#### James Ho Namkoong

The 1st South East Asia Radiographers Conference (SEARC) in conjunction with 2nd Asia Radiotherapy Symposium was held in Malacca, Malaysia August 21-23, 2014. The idea of having a South East Asia Conference was first initiated in 2012 at the 27th Malaysia Singapore Radiographers Conference. The Guest of Honour was Datuk Seri Dr S. Subramaniam, Minister of Health Malaysia, pictured top right.

A full report on this conference can be found on page 32 in this issue of *News & Views*.

In September this year ISRRT CEO Dr Alexander Yule was invited by JART President Yasuo Nakazawa to deliver a talk at the Japanese Association of Radiological Technologists (JART) 30th JCRT and the 21st EACRT Congress, B-con Plaza, Beppu, Japan.

Dr Nakazawa is pictured right bottom introducing the guests who were present at the opening ceremony.

Sandy Yule made a presentation on the ISRRT history and the organisation. Following the conference he visited Shimadzu X-ray and met with Mr Koki Aoyama, General Manager, Global Marketing Department.



## free e-book for ISRRT members

The British Institute of Radiology has just published  
*The Safe Use of Ultrasound in Medical Diagnosis* edited by Gail ter Haar.

Sonographers and other practitioners increasingly need to be knowledgeable about the safety of a diagnostic ultrasound scan as the onus has now shifted from the manufacturers to the person performing the scan.

This book, now in its third edition, is written for the practitioner and covers basic concepts important to the safe use of ultrasound and directs readers to extensive literature on the topic.

As part of the BIR's open access initiative, BIR Open, the eBook version is

**FREELY AVAILABLE ONLINE at:**

[www.birjournals.org/site/books/ultrasound.xhtml](http://www.birjournals.org/site/books/ultrasound.xhtml) as well as in print

# The America's Report

**Terry Ell**, ISRRT Vice President, Americas Region

**Jonathan Mazal**, ISRRT Regional Director, Americas Region

IT has been a busy 3 months since our last report of activities to the ISRRT membership! Jonathan and I are continuing our efforts to compile a comprehensive list of radiological contacts in Central and South America, as well as the Caribbean. It is our hope to strengthen partnerships with our professional peers in these sub-regions of the Americas to ensure they have representation at future World Congress meetings and equal access to educational offerings available to member societies of the ISRRT. As always, any assistance in identifying potential technologist/radiographer contacts would be greatly appreciated, and can be sent directly us via email (below).

In the ISRRT's ongoing efforts of collaboration with international government agencies, Jonathan and I attended the 53rd Pan American Health Organization (PAHO) Directing Council meeting in September in Washington DC. This meeting provided us with special access to the Ministers of Health for a host of countries within our region, and we are grateful to PAHO for this invitation. During this meeting we had the opportunity to meet with Dr Pablo Jimenez and Kayiba Medlin (Dept. of radiological Health, PAHO) to outline a possible workshop in Nicaragua for March 2015. We look forward to a continued partnership with PAHO in providing needed medical imaging resources to the developing regions of the Americas.

In addition to the PAHO meeting, Jonathan attended the RAD-AID International meeting in October of which radiology outreach in developing countries around the world was the primary focus. Sessions

on economics, public health, project planning, project implementation, education, and technology were very informative and key contacts were made with a variety of non-profits, academic institutions, and international government agencies.

Also, recognizing a need to enhance communication streams within our region, we are coordinating an Americas regional conference call, with special thanks to the ASRT for logistical support that will bring together ISRRT regional directors, coordinators, and council members. It is our hope to that this action will aid in identifying our team goals for the region and encourage a collaborative approach to project planning and implementation.

Finally, I am looking forward to attending the annual Society of Radiographers of Trinidad and Tobago (SORTT) meeting in early November and meeting with key leaders within the Caribbean radiography community.

Emails in Spanish are welcome.

**Terry Ell**

Terry.Ell@albertahealthservices.ca

**Jonathan Mazal**

jrmazal@gmail.com

Emails in Spanish are welcome!



Dr Pablo Jimenez (PAHO), Terry Ell (ISRRT) and Kayiba Medlin (PAHO).



Kayiba Medlin (PAHO), Terry Ell (ISRRT) and Dr Pablo Jimenez (PAHO).



PAHO Directing Council Meetings.



# UK SoR Awards

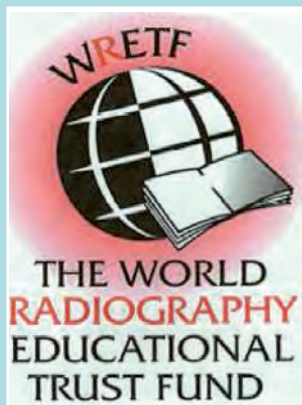
Further photos can be found at: [www.flickr.com/photos/119574687@N03/](http://www.flickr.com/photos/119574687@N03/)



SCoR Team of the Year 2014: Cardiac CT Radiographers from Norfolk & Norwich University Hospital





**Honorary Secretary:**

**Ms Sue Marchant**  
**Sue Marchant**  
**Honorary Secretary WRETF**  
 143, Corfield Street,  
 Bethnal Green,  
 London E2 0DS UK  
 email: [susan.marchant2@btinternet.com](mailto:susan.marchant2@btinternet.com)

**Honorary Treasurer:**

**Alan Budge**

**Website Manager:**

**Sue Marchant**

**THE TRUST IS  
 ADMINISTERED BY  
 THE FOLLOWING  
 TRUSTEES**

**Alan Budge (UK)**

**Sue Marchant (UK)**

**Mary Lovegrove (UK)**

**Michael Ong (Singapore)**

**Marie-Dominique Galy  
 (France)**

**Chris Steelman (USA)**

[www.wretf.com](http://www.wretf.com)

## The World Radiography Educational Trust Fund

**News**

In April we welcomed new Trustee Marie-Dominique Galy of France. She replaced Philippe Gerson and with her wide contacts is a most welcome replacement. We welcomed in the summer, Chris Steelman from USA who had been one of our ambassadors. Chris has experience of outreach programs. Sadly, we had to say goodbye to Delia Dephoff from New Zealand, who stepped down as Trustee at our autumn meeting. Delia has agreed to become an ambassador for the Trust.

**Support**

Disappointingly there have only been three applications for textbook support since the last report. We have sent book parcels to Argentina, Nepal and most recently Tonga, pictured top right. The latter is a first foray into the Pacific Islands for the Trust and we hope will be the start of a close co-operative relationship. Our thanks go to former Trustee Delia Dephoff for co-ordinating the application for support and for arranging for the parcels to be hand-delivered. A photo of the student radiographers with the first donation of books is included in this report.

**Twinning**

There has been little activity and Trustees are currently reviewing how effective this program is.

**Ambassadors**

Delia Dephoff is trying to get an ambassador who could cover the Pacific Islands so that the Trust has almost global coverage.

Ambassador Ruben Barqui, provided Trustees with a fascinating report on the state of radiology and radiography in his home country of Argentina. It certainly was humbling reading. Most recently the Trust has appointed Edward Chan of Hong Kong who will cover China for the Trust.

**Bursary Scheme**

The scheme was launched on November 1, 2013. There were a number of enquiries and eight applications were received in time for the first closing date of March 20. All applications were to attend conferences. Up to four bursaries can be awarded each year.

The first bursaries were awarded in the Spring.



One recipient – Thakur Lamsal of Nepal – attended the ISRRT Congress in Helsinki in June. Without our help he would have struggled to find the deficit, having received some support from the ISRRT Travel Fund. Thakur is pictured below left with the then ISRRT President Dr Michael Ward and Michael Ong WRETF Trustee, who was also attending the congress. The second closing date of September 20 has now passed and Trustees are reviewing applications. Please let the radiographic community know that there are bursaries available and to visit our website. The next closing date is March 20, 2015.

**New Trustees**

The Trust can have up to eight Trustees at any one time, so if there is any radiographer, radiological technologist or radiotherapy radiographer who may be interested, please get in touch with the Honorary Secretary or visit our website for details. We are particularly interested in having another Trustee from outside of the UK and Europe.

**Strategic Plan**

Trustees formed a working group of four Trustees to draft the new Plan to start in April 2015 and to run for five years. This was signed off at the autumn meeting of Trustees with an action plan against each strategic goal. The new Strategic Plan will be available to be viewed and downloaded from our website, in the Spring.

**Donations**

The Trust is always pleased to receive either monetary donations – this is the main form of income for our work – and textbooks and radiographic journals.

Two monetary donations were received in the year-to-date – from the Macau Society and the Korean Society via the ISRRT. These are most welcome and enable the Trust to continue its work. Monetary donations can be made to the Honorary Treasurer – Alan Budge. Contact him at: [abudge@btinternet.com](mailto:abudge@btinternet.com) or visit the website to see how donations can be made direct to the Trust's bank.

For textbook and journal donations, contact Honorary Secretary Sue Marchant at: [susanmarchant@wretf.org](mailto:susanmarchant@wretf.org)



## News from member countries

### AUSTRALASIA

#### TAIWAN



Taiwan Society of Radiological Technologists (TWSRT) held the 2nd International Competition Day for Radiographer

Students (ICD 2014) on October 25 at Central Taiwan University of Science and Technology (CTUST). It attracted 17 universities from eight countries and 82 students joined together for skull phantom positioning competition. It is designed for two big groups, one is individual and the other is three students at most group campaign.

Stenver Lin, President of TWSRT, indicated that the competition benefits the students, both local and international, in expanding their horizon in academic advancement as well as making friends in the same profession from around the world. This acquaintance among the students will surely not only build friendship, but also help in developing their professional networking and he believes sure they will have more professional and experience sharing in the future by Facebook or other



social networking means. It is important for a healthcare professional to have a global foresight and for sure the ICD 2014 has successfully promoted and facilitates this

The 3rd ICD will be held in November 2015 (date to be confirmed) and hope more teams from more universities will take part this very meaningful and interesting event.

Attending universities list of ICD 2014. Monash U, Charles Sturt U. from Australia, Tokyo Metropolitan U, Fujita U. Nihon Institute of Health U. from Japan, Chiang Mai U, Mahidol U. and Naresuan U. from Thailand, U. of Malaya from Malaysia, The Hong Kong Polytechnic U. from HK, Ho Chi Minh City University of Medicine and Pharmacy, Vietnam, National YangMing U, ChangGung U, YuanPei U, ChungShan Medical U, China Medical U, CTUST, ShuJen College, IShou U, TziChi Institute from Taiwan.

**Stenver Lin**

#### AUSTRALIA

Hello everyone this is my first report for the ISRRT as the Australian representative. A special mention for the contribution to the ISRRT from my predecessor Professor Pamela Rowntree who served for many years and continues to contribute to the



world of Imaging.

I still have fond memories from the excellent scientific meeting in Helsinki, and I wish to share some of

what Australia showcased at its Combined Scientific Meeting held in Melbourne in October 2014.

This year the meeting combined The Australian Institute of Radiography (AIR), The Royal Australian and New Zealand College of Radiologists (RANZCR) and The Australasian College of Physical Scientists and Engineers in Medicine (ACPSEM). With a total of 2,100 attendees this was one of the most successful meetings of all time held in Australia. Titled "Imaging and Radiation in Personalised Medicine" the conference program centred around combined plenary sessions featuring some inspirational invited international speakers including William Bailey from Manchester Royal Infirmary – UK, Charlotte Beardmore from Society and College of Radiographers – UK, Professor Jens Overgaard from Aarhus University Hospital – Denmark, Dr Bruce J. Hillman from University of Virginia – USA, Vincenzo Valentini from University of Cattolica S. Cuore – Italy, Sal Martino from American Society of Radiologic Technologists – USA and more.

With hundreds of presentations and nearly 300 e-posters on display there was something for everyone at CSM2014.

Each year the AIR runs a concurrent conference for the Imaging students who travel vast distances to attend. 160 students attended demonstrating the wealth of talent of the next generation of diagnostic and therapy health professionals.

Our President Ms Jo Page was excited by the use of social media throughout the conference, a phenomena which has transformed the world of communication creating incredible opportunities to reach out and touch everyone in our profession.

Annual conferences are opportunities to recognise the achievements of our peers. This year Advanced Practitioners were recognised for the first time with Ms Alison Brown and Mr Nick Woznitza leading our profession into a new era. Other than Fellowship, the highest award for service and contribution to the AIR is The Nicholas Outterside Medallion which was bestowed upon Mr Greg Way from Queensland who many reading this article will know and count as a true friend.

The meetings in Australia are well

## 2014 Combined Scientific Meeting

supported by the vendors of equipment, software and consumables and academic institutions. The Exhibition component at CSM is the largest of its kind for MRS meetings in Australia, and was held over an area of 6000 square meters with 63 companies exhibiting. This was a great chance for the AIR membership to see and learn about the technology that would not normally be exhibited at our annual ASMMIRT meetings.

Not forgetting the social functions which were a great success, (those who have visited Australia know how much we like to party. These events would not be as successful as they are without the efforts of our volunteer conference organising committee, conference convenors and our events team led by Mr David Leach and all of the staff at the Secretariat in Melbourne led by Mr David Collier.

The AIR in creating 'Medical Radiation Learning Online' (MRLO) has enabled access of learning material for the profession unequalled in Australia. And example of this is the creation of the MRLO Resources Library, Danny Ang, Manager of MRLO wrote 'MRLO's Resources Library - designed to provide a 'one stop shop' to the most useful and timely research articles published in journals around the world. Danny goes on to say that AIR members and MRLO members can select from thousands of articles to cover six major modalities: Diagnostic Imaging; Radiation Therapy; Nuclear Medicine; Ultrasound; Mammography; and new Technologies.

To find out more make sure you visit, [www.mrlo.org](http://www.mrlo.org) to see how you can simplify your research.

Hope to see as many ISRTT members as possible in Singapore in August 2015.

**Christopher Whennan**  
ISRTT Council Member

### NEW ZEALAND



The NZIMRT held its annual conference in Invercargill in August, titled "Southern Exposure

– Basics & Beyond". Invercargill is at the bottom of the South Island of New Zealand and the convening committee arranged for a bus trip to Bluff – the very bottom tip of New Zealand. We all had the obligatory photo at the signpost and it reminded me of



how far we all travelled to come together and share in Helsinki.

The presentations were interesting and informative ranging from review of the basic technique – looking at extremity images from a Radiologist's perspective, to those that inspire. Mark Middleton from Australia spoke about the fact that 'the basics don't change, it is the horizon that changes' and how important it is for us to embrace change. He included the following quote in his presentation: "Far and away the best prize that life has to offer is to work hard at work that is worth doing", Theodore Roosevelt.

In August two staff members from Tarawa Hospital in Kiribati spent three weeks at Middlemore Hospital, New Zealand. They were supervised performing basic radiography techniques and ultrasound during their time in New Zealand, taking away many valuable skills to share with their colleagues. The NZIMRT will again focus the World Radiography Day celebration activities on fundraising to support the Kiribati Island X-ray Department.

On behalf of the NZIMRT I wish all radiographers a happy World Radiography Day, a day when we all have a chance to recognise the importance of our profession.

As this year quickly draws to a close I wish all member countries a happy and

peaceful new year. Please visit the NZIMRT website for further information

[www.nzimrt.co.nz](http://www.nzimrt.co.nz)

**Kathy Colgan**

### THE AMERICAS

#### AMERICA



#### ASRT Issues Human Rights Statement

The ASRT Board of

Directors has issued a statement expressing the American Society of Radiologic Technologists' commitment to human rights.

The statement reads:

As an organization dedicated to the health and well-being of individuals, the American Society of Radiologic Technologists is committed to the protection and preservation of human rights worldwide. Therefore, the ASRT Board of Directors endorses the principles outlined in the Universal Declaration of Human Rights and supports the promotion of human rights for all people, everywhere. The ASRT believes that governments bear primary responsibility for upholding and safeguarding these rights.

Principles covered by the Universal Declaration of Human Rights include freedom of thought, conscience and religion; freedom from torture and from cruel, inhumane or degrading treatment; the right to education; and the right to a standard of living adequate for health and well-being.

#### ASRT Membership Update

As of September 2014, ASRT's total membership stood at 152,996. The association's net annual retention rate is about 85.53 percent and its annual net growth rate is 0.23 percent.

#### 2014 ASRT Radiation Therapy Conference

##### THE DISCOVERY







Nearly 1,000 radiation therapists and medical dosimetrists were in San Francisco in September to attend the 2014 ASRT Radiation Therapy Conference. The three-day event hosted 47 in-person continuing education courses taught by some of the premier experts in radiation therapy.

The event was held in conjunction with the annual meetings of the American Society for Radiation Oncology and the Society for Radiation Oncology Administrators.

Visit [www.asrt.org/rtc](http://www.asrt.org/rtc) for information about the 2015 conference, which will be held in October in San Antonio.

#### ASRT@RSNA 2014

Come to Chicago for RSNA's 100th Scientific Assembly and Annual Meeting exhibition and attend ASRT@RSNA 2014, Dec. 3-4. The one-and-a-half day educational program is specifically targeted to radiologic technologists and radiation therapists. See the latest technology, network with peers and earn continuing education credit while learning from leaders in the radiologic sciences.

Register for the conference at [www.asrt.org/asrtatrsna](http://www.asrt.org/asrtatrsna). The registration fee includes all ASRT@RSNA 2014 courses, Associated Sciences Program, other educational offerings from RSNA and access to the RSNA technical exhibition.

#### ASRT Museum and Archives

The ASRT Museum and Archives is scheduled to open in June 2015 at the ASRT office in Albuquerque, New Mexico. Through interactive displays and educational exhibits, the museum will trace the progress of medical imaging and radiation therapy professionals from the discovery of the x-ray to today. The mission of the museum is to deepen the appreciation and understanding of the radiologic technology profession and to

inspire further learning.

Please visit [www.asrt.org/museum](http://www.asrt.org/museum) regularly for updates.

#### ASRT ACE Campaign Update

It's been nearly a year since the ASRT officially launched the ACE campaign, an educational initiative designed to improve the public perception and awareness of radiologic technologists. ACE is a simple acronym that reminds medical imaging and radiation therapy professionals to: Announce their name, Communicate their credentials and Explain what they're going to do. ASRT developed the easy-to-remember acronym to help radiologic technologists educate their patients about their role as educated and registered radiologic technologists.

Last fall, as part of the campaign, every ASRT member received a poster that educates patients about their role in providing top-notch patient care. In addition, all members received patient cards that patients can use to record their medical imaging and radiation therapy exams. The campaign also features the Click To Commit initiative, which asks radiologic technologists to incorporate the ACE principles in their daily interactions with patients. To date, more than 1,600 medical imaging and radiation therapy professionals have pledged to do so.

Visit [www.asrt.org/ace](http://www.asrt.org/ace) to Click To Commit, learn more about the campaign, show support and purchase and download materials.

#### New ASRT Continuing Education Products

As part of ASRT's ongoing efforts to provide radiologic technologists with continuing education solutions focusing on disciplines, specialties and leadership development, the association introduced three new educational series in 2014.

Leadership Essentials is a 10-module program that introduces key strategies to help medical professionals succeed in health care leadership positions. Topics focus on the fundamentals of supervision, improving communication, leading efficient teams, performance coaching, employment law, accreditation and regulations, quality standards, budgeting and project management.

Sectional Anatomy Essentials takes participants inside the human body and illustrates the location and function of its major anatomical structures. Featuring nine modules, the series includes interactive animation sequences that allow users to access high-quality computed tomography and magnetic resonance images that highlight the complexities of the human body and show how anatomical structures work together.

ASRT's newest product, Medical Relief Readiness, is an educational series that provides radiologic technologists with the tools and information they need to successfully transition to positions in the medical disaster relief field and developing countries. The six-module series provides in-depth information about volunteering for service, adjusting to new working conditions and understanding differences in the workplace. In addition, it provides an overview of local health concerns and common tropical diseases, as well as background information about how to assemble a volunteer team.

#### Fiscal Year 2015 National Radiologic Technology Week®

National Radiologic Technology Week® is celebrated annually in the United States to recognise the important role medical imaging and radiation therapy professionals play in patient care and health care safety. The celebration takes place each November to commemorate the discovery of the x-ray by Wilhelm Conrad Roentgen on Nov. 8, 1895. This year, NRTW will take place Nov. 2-8.

To help promote this year's NRTW event, the ASRT launched its Strike a Pose Contest on July 1. Participants were asked to decorate a paper skeleton and incorporate it into a scene to represent the vital work of RTs. To enter the contest, participants posted a photo or video of their creation to Instagram using #MyNRTW. Contest results are highlighted in the October/November 2014 issue of ASRT Scanner.

For more information about NRTW and tips to celebrate, visit [www.asrt.org/nrtw](http://www.asrt.org/nrtw)

#### ASRT Foundation Update

In June, the Foundation launched a comprehensive campaign to help position

## A Joint Congress on Medical Imaging and Radiation Sciences Palais de Congrès Montreal, Quebec May 28-30, 2015

The CAMRT is co-hosting this conference with the Canadian Association of Radiologists, l'Ordre des technologues en imagerie médicale et en radio-oncologie et en électrophysiologie médicale du Québec and la Société canadienne-française de radiologie. The program spans a wide variety of disciplines and specialties with both English and French sessions offered.

### KEYNOTE SPEAKERS

Compelling keynote presentations provided by recognised experts in their fields will be presented with simultaneous interpretation. They include:

#### Opening plenary, Thursday May 28, 2015

Le partenariat de soins avec le patient: ce que ça change au quotidien (Partnership treatment with the patient: what it changes on a daily basis)

André Néron, Directeur associé

Direction collaboration et partenariat patient

Président du Comité de patients experts

Faculté de médecine, Université de Montréal

#### Closing plenary, Friday, May 29, 2015

Use of social media by healthcare professionals

Gerard Farrell, MD

Associate Professor and Director eHealth Research Unit

Memorial University, St. John's

#### Closing plenary, Saturday, May 30, 2015

The importance of comparative and cost effectiveness in investigation selection.

George Wells, MD

University of Ottawa Heart Institute, Ottawa

Online registration will open soon, at <http://jointcongress.ca/>

medical imaging and radiation therapy professionals for success. The Positioning for a Brighter Tomorrow Celebration Campaign will safeguard the Foundation's ability to help empower radiologic technologists, strengthen the radiologic technology profession and collaborate with industry partners to increase the quality and safety of patient care around the world for years to come. The campaign reached its first milestone by the end of the 2014 fiscal year, with more than \$750,000 in individual commitments from members.

Individuals and corporations can contribute to building the first-ever operating endowment for the Foundation and have their names included on the ASRT Foundation Donor Wall. Campaign supporters may also choose to create new scholarship endowments and named grant awards for research and outreach programs.

In addition, individuals and corporations can take advantage of room naming and sponsorship opportunities at the ASRT office in Albuquerque, New Mexico.

Those wishing to participate in the campaign can donate cash, leave a deferred gift through a will or trust, or make a contribution with stock, mutual funds or marketable securities. Donors may also provide a combined gift.

Earlier in the year, the Foundation awarded more than \$250,000 in scholarships for the 2014-2015 academic year to 75 medical imaging and radiation therapy professionals and students. In addition, the Foundation launched three new individual scholarship endowment awards: Philip W. Ballinger Endowed Scholarship, Richard S. Kay Endowed Scholarship, and Marie L.A. Racine Scholarship.

Also in 2014, the Foundation's R.T. Fellowship for Developing Countries Program sent several participants to Jamaica, India, Ghana, China and Haiti to assess current radiography programs, offer educational workshops and more. Find out how to get involved by visiting [www.asrtfoundation.org](http://www.asrtfoundation.org)

**Donna Long**

## CANADA



### Advocacy

As reported in the last issue, CAMRT CEO Francois Couillard is leading several initiatives to create awareness of, and prepare for, the eventuality of a global shortage of medical isotopes in 2016.

The CAMRT has been leading efforts in Canada to create a multi-stakeholder medical isotopes working group. We first invited the Canadian Association of Radiologists and the Canadian Association of Nuclear Medicine to coordinate their efforts with us, and then suggested that Health Canada and the provincial governments create a Pan-Canadian Multi-Stakeholder Working Group on Medical Isotopes that would include our national associations and industry representatives. Our proposal was accepted and we expect a first meeting of the group before the end of the year.

### Education and Practice Resources

#### CPD at CAMRT

The CAMRT welcomes registrations for its online continuing professional development courses from the global professional community. Our catalogue of Full Courses and Quick Self Studies offer flexible learning opportunities that you can undertake at your convenience. CAMRT also offers Specialty Certificate Programming to the international community. Coming in winter 2015: *PET Theory and Clinical Applications for PET/CT. Collaborative Care – Imaging & Treatment A Joint Congress on Medical Imaging and Radiation Sciences*

The CAMRT is co-hosting this conference with the Canadian Association of Radiologists, l'Ordre des technologues en imagerie médicale et en radio-oncologie et en électrophysiologie médicale du Québec and la Société canadienne-française de radiologie. The theme, Collaborative Care – Imaging and Treatment, will be infused throughout the event. The Scientific Committee for the 2015 Joint Congress has developed a diverse and rigorous scientific program to meet the educational needs of radiologists, medical radiation technologists, residents and students. Programing spans a wide variety of disciplines and specialties with both English and French sessions offered.

### KEYNOTE SPEAKERS

Compelling keynote presentations provided by recognised experts in their fields will be presented with simultaneous interpretation.

The congress will take place at the Palais ►



de Congrès, Montreal, Quebec, May 28-30, 2015. Online registration will open soon, at <http://jointcongress.ca/>

#### ELIIT Research Institute 2015

The CAMRT's Journal of Medical Imaging and Radiation Sciences (JMIRS) is offering a workshop in two breakout sessions, covering the basics of research on a practical level, and intermediate level methodologies in conjunction with the joint congress in Montreal, May 27, 2015. Register soon at [www.camrt.ca](http://www.camrt.ca). Questions? Please contact [editor@camrt.ca](mailto:editor@camrt.ca).

Webinars from the 2014 ELIIT Research Institute will soon be available on the CAMRT website at a modest cost.

#### Best Practice Guidelines

Do you have questions about how to communicate with patients on the risks and benefits of procedures involving radiation? Would you like guidance on your role as a patient advocate? Need a conflict resolution process for your organisation? The CAMRT's evidence-based Best Practice Guidelines provide direction on these and other complex questions.

#### Advanced Practice Framework

This document includes examples of advanced practice experiences in other countries and other healthcare professions that provide a vision for advanced MRT practice and help MRTs to begin building the advanced practice roles of the future. Find the framework here.

#### Medical Imaging Team

CAMRT is a member of the Medical Imaging Team, a group of national associations that work together to create awareness of the issues related to appropriate medical imaging with colleagues in other healthcare profession, and with patients and their families. The team has created an online library of information on many aspects of medical imaging for professionals and for patients, including downloadable posters and a brochure to assist patients better understand the issue of appropriate imaging. <http://imagingteam.ca/>

#### Entry to practice competency profiles

CAMRT has revised their entry to practice competency profiles for each of the discipline of radiological technology, nuclear medicine, radiation therapy and magnetic resonance. With technology and practice changing so rapidly every attempt was made to produce profiles that will meet current practice needs and provide a good foundation for future practice. Education programs are in the process of

revising curriculum to meet the May 2018 deadline when the profiles will be used for certification exam development.

Find revised competency profiles at [www.camrt.ca/certification/canadian/competencyprofiles/](http://www.camrt.ca/certification/canadian/competencyprofiles/)

In addition the CAMRT has begun an initiative to look at what education should look like for future entry to practice technologists given the dynamic changes with hybrid technologies.

#### Preparing to certify in Canada?

CAMRT offers a broad range of services to those interested in working and certifying in Canada. Funding support from the Government of Canada has enabled the development of useful online tools, some that are most relevant to those who have already moved to Canada, and others tools are available for those still in the process of immigration.

A new online module on "How to Write a Competency-based Exam" has just been released.

The CAMRT entry-to-practice certification exam is a competency-based exam. Emphasis is placed on the application of knowledge in the practice environment and exam questions are asked from this perspective. To assist those preparing to write the exam, an interactive online module has been introduced to explain competency-based testing. The module includes the following information.

- Becoming certified to practice in Canada
  - Competency-based education and testing
  - The value of competency-based learning as a model that meets the needs of the workplace
  - Sample exam questions that compare knowledge-based and competency-based questions
  - The development and scoring of national certification exams
  - Tips and strategies for writing the exam
- The online module is available free of charge in English and French at:
- English*  
[www.camrt.ca/writing-a-competency-based-exam/story.html](http://www.camrt.ca/writing-a-competency-based-exam/story.html)
- French*  
[www.camrt.ca/examen\\_base\\_sur\\_les\\_competences/story.html](http://www.camrt.ca/examen_base_sur_les_competences/story.html)

#### International engagement

Stay connected with Canadian colleagues – through our Essentials E-Publications Package, offering electronic subscriptions to the CAMRT quarterly newsletter, CAMRT e-news bulletins and the prestigious *Journal of Medical Imaging and Radiation Sciences* (JMIRS), at a cost of \$40 annually, or the Essentials Plus Package, which includes

the Essentials package AND access to the CAMRT on-line Job Bank and 20% off CAMRT non-member rates for continuing professional development courses, at an annual fee of \$70.(13% Harmonized Sales Tax is applicable to both packages).

CAMRT is active in social media, and encourages international members to connect through LinkedIn, Facebook and Twitter.

#### TRINIDAD & TOBAGO



The Society of Radiographers of Trinidad and Tobago hosted their Annual Conference 2014 on November 1-2, 2014 at the Radisson

Hotel, Port of Spain. This event was attended by many radiographers (diagnostic and therapeutic) from local, regional and international abodes.

At this event participants were given the official announcement of Trinidad and Tobago's success at hosting the International Society of Radiographers and Radiological Technologists (ISRRT) World Congress in 2018, as well as the Society's future plans.

Our featured guests at the annual conference were Dr Terry Ell, Vice President of the Americas, ISRRT and Mrs Donna Bowman, Principal of Radiography, Guyana. Both conference days were packed with educational and mentally stimulating lectures.

The event also marked the start of World Radiography Week 2014. This



Dr Terry Ell, right, Vice President ISRRT, Americas, with Mr Aleth Bruce, ISRRT Council Member, Trinidad & Tobago, at Society of Radiographers Annual Conference 2014.



Dr Terry Ell, Vice President ISRTT, Americas, with Mr Aleth Bruce, ISRTT Council Member, Trinidad & Tobago, with members of the Executive of the Society of Radiographers Trinidad & Tobago, as well as the contingent of radiographers from Guyana at SRTT Annual Conference 2014.

year's conference theme was "Leadership – Opportunities and Challenges"; which lead to presentations highlighting the role and functions of radiographers as leaders, as well as best practices which are trend setters in the field of imaging.

Tobago had a special celebration with a church service and a visit by secondary school students to the Medical Imaging Department of Scarborough Regional Hospital.

A number of continuing education initiatives are being planned with the PAHO office in Trinidad. A workshop is planned for December in both CT and Ultrasound for radiographers, sonographers and radiologists.

We look forward to a bright and exciting 2015.

**Mr Aleth Bruce**  
ISRTT Council Member

## GUYANA

History was created in Guyana with the first two radiographers to graduate with the BSc Medical Imaging at the University of Guyana.

The graduation ceremony was held on World Radiographers Day, November 8, 2014.

Congratulations to Fauzia Khan and Devi Jankie pictured right.

## EUROPE

### FINLAND



On behalf of the Society of Radiographers in Finland I

would like to thank all the World Congress participants for making the congress unforgettable and heart warming. It was an



absolute privilege to be hosting this large scale international event. It was great to see so many colleagues from around the world sharing and developing their knowledge and creating new friendships. We are also very grateful for the numerous abstracts we received, so special thanks to you all who sent an abstract.

In 2015 our society's focus will be in three major ongoing legislation renewals, which have been keeping us occupied starting from this autumn: the renewal of our national radiation legislation, renewal of the third level education and EMF (electromagnetic field) legislation. The Society of Radiographers of Finland has managed to become part of the working committees which is a great honour to us.

## GREECE



Despite the problematic socioeconomic conditions in Greece there is a ray of sunshine to report and it involves radiographers.

The Panhellenic Society of Radiological Technologists finally achieved a prolonged goal on the eve of the World Radiography Day 2014. The Presidential Decree outlining the requirements to obtain a license to practice radiography in Greece, was published in the government gazette, on November 7, 2014. Therefore radiographers in Greece have an additional reason to celebrate other than the discovery of X-rays. November 7 & 8 from here on will be linked with the official recognition of our profession in Greece.

The determined and systematic efforts of the previous and current board of the society were worth the wait. The aspiration of all radiographers was realised although there had been several delays due to discrepancies and unresponsiveness from the responsible authorities. The society's proposals and actions toward this aim are documented and traceable over the past decades. However it was in 2012 when the issue surfaced for the umpteenth time during a discussion among the President of the Society and the rapporteur of the Central Board of Health. It was not long after when the proposal was concluded and forwarded to the Minister of Health by the Central Board of Health.

Nevertheless the political situation in Greece postponed the decree until the Greek ombudsman independent authority intervened on behalf of the Panhellenic



Society. This accelerated the administrative procedures and radiography is now a regulated profession.

As of November 7, 2014, radiographers employed in Greece are required to obtain their licence before they practice according to state laws and professional rights and privileges.

The Panhellenic Society of Radiological Technologists would like to thank all persons and competent bodies involved and all those individuals who believed and supported our efforts toward this goal over the previous years.

Furthermore unemployed radiographers, doctors and allied health professionals have been receiving vocational training funded partly by the European Social Treasury. The 7-9 month duration courses are conducted in private training institutions, hospitals and private medical centers since the beginning of spring 2014. These courses have been designed to enhance the competencies of participants in order to return to the workforce.

Dear colleagues, keep in mind that our objectives can only be reached with team effort and your continuous assistance. Become involved!

**Euthimios Agadakos**  
President

## AFRICA

### GHANA



The Ghana Society of Radiographers is the umbrella association for all practicing medical imaging and radiotherapy professionals in Ghana. It was founded

in 1986.

The Society has been relatively active this year. The year began with a National Executive Council, (NEC) meeting in January in Accra to strategise the rolling out of plans envisioned by the Council at its meeting in the last quarter of 2013. The program for the year included:

- National Scientific Workshop in the first quarter of the year
- Zonal Scientific Workshops in the second quarter
- Work on the Society's Database
- Operationalising the Society's website
- Strengthening the Regional and Zonal Chapters of the Society
- National Scientific Conference and Congress in August

The theme for the year has been "Advances



Conference participants.

in Medical Imaging: Impact on Patient Care". This theme is to guide all activities of the Society and to engage the thinking of our Members throughout the year.

#### Some highlights from 2014

##### 1. The National Scientific Workshop 2014

This was held at the Miklin Hotel in Kumasi, the nation's second largest city, on March 28. The anticipated attendance was put at about

100 participants, however, the event turned out to be a record meeting of radiographers in Ghana – 150 participants. The organisers were, however up to the task. The theme for the Workshop was the same as the theme for the year.

The presentations were on point and very



The Ghana Organising Secretary and a fellow female participant.



Future radiographers of Ghana.





A group of Ghana therapy radiographers.



Mrs Grace Nkum, of Ghana, a retired radiographer receiving her award.

educative. Among the topics treated were:

- Managing Radiation Dose in Advanced imaging Systems
- Computed Tomography Intravenous Urography: Techniques, patients' and staff safety
- Workplace stress and its management
- Psychological distress in cancer management
- Radiographers and patients interactions

There was a brief open forum during which issues affecting the Society were raised and addressed. There was also a brief National Executive Council Meeting to assess the just-concluded workshop, review plans towards the Zonal Workshops in June and the National Scientific Conference and Congress in August.

## 2. The Zonal Scientific Workshops

For the purpose of these workshops all

radiographers in the country were put into two geographical zones: Southern and Northern Zones. There were therefore two zonal workshops. The theme was the same for both: 'Advances in medical imaging: the role of the radiographer'.

72 Radiographers from the southern zone which comprised Central, Eastern, Greater-Accra, Volta and Western Regions participated in this workshop. This was on June 21 at the Samrit Hotel in Cape Coast, the capital city of Central Region, renowned for its numerous tourist attractions – castles, forts, rainforests, canopy walkways etc.

Radiographers from the Ashanti, Brong-Ahafo, Northern, Upper-East and Upper-West Regions constituting the Northern zone held their zonal workshop on the 28th June at the Ecom Hotel in Techiman in the Brong-Ahafo Region. 50 Radiographers participated. The consultant radiologist at the Sunyani Regional Hospital was in attendance as one of the resource persons.

## 3. The 4th Biennial National Conference and Congress

This was the second national activity of the Society in the year 2014. It was held at the serene Chances Hotel in the Volta Regional capital city, Ho, from August 8-10, 2014. It had two major parts:

- National Scientific Conference during which scientific papers were presented by members of the Society; and
- National Congress, in which important issues affecting the Society were discussed and new national officers were elected.

Participation was generally very good. There were 147 Radiographers in attendance.

New officers were elected at the Congress to steer the affairs of the Society for the next two years. The outgoing Vice-President, Reverend James William Ampofo, a diagnostic radiographer and a clinical instructor in CT and MRI, practicing at the nation's premier hospital, the Korle Bu Teaching Hospital, was elected as the new President.

The officers for Ghana are:

- **President:**  
Rev James William Ampofo
- **Vice President:** Mr Kofi Adesi Kyei
- **General Secretary:** Ms Sophia Hemans
- **Financial Secretary:**  
Ms Althea Amerley Amartey
- **Organising Secretary:**  
Mr George Fitzberg Nunoo
- **Treasurer:**  
Mrs Vivian Della Atuwu-Ampoh

The 4th Biennial National Conference and Conference received sponsorship from the following corporate bodies:

- Cyndex Pharmacy, an agent for Bracco SpA
- BAYER SA
- GE Healthcare
- GECAD, an agent for GE Medical Systems
- Agvad Group of Companies, an agent for TOSHIBA, Fujifilm and SHUMADZU.

## SOUTH AFRICA



## National Council meeting 12 September 2014

The Society of Radiographers of South Africa (SORSA) held

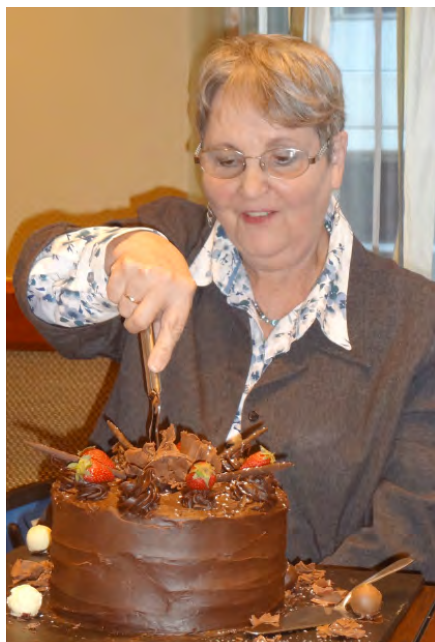
their National Council meeting on Friday September 12, 2014. At the meeting there were a number of reasons for celebrations. The first was to congratulate Dr Fozy Peer as the newly elected ISRR President.

The second celebration was to congratulate Mrs Leonie Munro, the national treasurer on her 70th birthday with a delicious birthday cake, pictured on the next page.

## Kwa-Zulu Natal branch

On Saturday September 27, 2014, KZN branch hosted yet another successful seminar at the prestigious Elangeni Tsogo Sun Hotel. Almost 200 delegates from in and around KZN attended. The seminar was bursting with stimulating presentations on a diverse range of topics. Prior to the start of the seminar, KZN radiographers saluted Dr Fozy Peer on her election as 14th ISRR





Leonie Munro.



Mrs Y. Govender presented flowers to Dr Fozy Peer.

President. We are proud of her success and congratulated her on her achievements.

#### Bloemfontein branch

At the seminar on August 15-16, 2014 the Bloemfontein branch of SORSA refunded each delegate at the seminar who belongs to SORSA with a R50.00 to say thank you for being a loyal member. Delegates were

Right top and middle:  
Teams competed in a chicken dress relay.

Right:  
The team with the best team spirit from  
Pelonomi Hospital.



The best dressed team from Drs Spies and partners at Rosepark Hospital.



delighted and appreciated the generosity of the society.

The Bloemfontein Branch Committee celebrated World Radiography Day by arranging a successful Chicken trophy challenge 2014. Four teams participated in a number of events such as how to reconstruct a skeleton and answer questions about that as well as a scrabble game to design radiography related terminology to align with the theme 'Radiography: Advancing imaging and healing globally'.

**Hesta Friedrich-Nel**  
**South Africa**

#### Pretoria branch

The Pretoria branch treated the students of the three training institutes to a small goodie bag which included some snacks as well as a SORSA branded lanyard. Although we had to replace the lanyards with branded SORSA pens the students enjoyed receiving the gift. Colleen Vlok and the branch Education representative Bonita Johnson addressed the students on the benefits of joining SORSA and the meaning behind World Radiography Day celebrated around the world on November 8 every year.

**Prevania Pillay**  
**Pretoria Branch**

#### Port Elizabeth

We decided this year that we wanted to do something for the community in honour of World Radiography Day.

Our chosen project was the Paediatric Department at Dora Nginza Hospital in Port Elizabeth, and so we contacted Dr Lungile Pepeta and told him that we had R10,000.00 that we would like to donate to his wish list for his department. He immediately said that they desperately needed a new cable





for their ultrasound machine as theirs had broken and it meant they had to transfer the critically ill babies from ICU whenever they needed cardiac echoes.

Once we had given him his cable, he then told us that another item that he really wanted was a room for the out-of-town mothers to stay in while their babies were in hospital as the room they had was far from ideal.

We then decided we could not do much for him with only R5,000.00 remaining and this is when we thought to ask our suppliers if they could assist in any way.

We had an amazing response from the following very generous people. Without their assistance we would never have managed to complete this project.

- Paragmed donated R10,000.00.
- Vascumed purchased a bar-fridge and kettle.
- Lotus Laundry donated R1,000.00.
- Various radiographers donated toiletries for the mothers and soft toys for the patients.



- A group of people called Concerned Citizens are having 30 lockers made for the mothers to store their belongings in.
  - Dr Pepeta for his passion and his own personal donation of R1,000.00 for toys.
- We were joined by another charity called LOVE STORY who wanted to help, and a big thank you goes to them for obtaining the paint and painting the room for us on Friday November 7. They were also able to buy 10 double bunk beds, and 30 mattresses and mattress covers with the money we supplied. These items were very kindly given to us at cost by Factory Beds Direct.

We all arrived at Dora early on Saturday to clean the room and hang curtains which were supplied by Love Story, and while we were waiting for the beds to arrive we went around the wards and handed out soft toys and sweets to the children.

As can be seen in the before and after pictures the transformation of the room was incredible, and it was a wonderful feeling to see how an idea can become a reality with the help of some very generous people.

#### Cape Town Branch

A group of radiographers celebrated World Radiography Day, with the Saturday morning together enjoying each other's



company at The Spier, in Stellenbosch, where a variety of picnic baskets full of meats, chesnes, breads and pickles was enjoyed by all.

At hospitals around the Cape area, radiographers dressed to different themes and decorated their departments in celebration of this special day. The most vibrant and colourful department was at the Beaufort West Hospital.

**Suzan Tovey**





<b>Australia</b>	Australian Institute of Radiography 25 King Street Melbourne, Vic. Australia 3000 PO Box 16234 Collins St. West Melbourne, Vic., Australia 8007 Tel. +61 3 9419 3336 Fax +61 3 9416 0783 Email: <a href="mailto:info@air.asn.au">info@air.asn.au</a> Website: <a href="http://www.air.asn.au">www.air.asn.au</a>		
<i>Council Member</i>	Chris Whennan Email: <a href="mailto:Chris.Whennan@health.wa.gov.au">Chris.Whennan@health.wa.gov.au</a>	<i>Council Member</i>	Email: <a href="mailto:ymbv@mail.be">ymbv@mail.be</a> Mr Patrick Suvée Gerststraat 4, 8400 Roksem Email: <a href="mailto:Patrick.Suvee@hologic.be">Patrick.Suvee@hologic.be</a>
<b>Austria</b>	Verband DRTA Österreich, Corvinusring 20 2700, Wiener Neustadt, Austria Tel: + 43 699 1749 8367 Fax: +43 2622 321 2685 Email: <a href="mailto:office.rtaustria@gmx.at">office.rtaustria@gmx.at</a> Website: <a href="http://www.rtaustria.at">www.rtaustria.at</a>		
<i>Council Member</i>	Ms Karin Haller Email: <a href="mailto:isrrt.rtaustria@gmx.at">isrrt.rtaustria@gmx.at</a>	<b>Benin</b>	Organisation Des professionnels En Imagerie Medicale Du Benin 02 BP 8125, Cotonou Tel: (229) 39 02 99 Mr Antoine Agbo 02 BP 8125, Cotonou Email: <a href="mailto:ag_antoine@yahoo.fr">ag_antoine@yahoo.fr</a>
<b>Argentina</b>	Argentine Society of Radiology Arenales 1985 PB Ciudad de Buenos Aires (C1124AAC) Argentina Dr Alfredo Buzzi	<b>Bosnia &amp; Herzegovina</b>	The Association of Engineers of Medical Radiology in Federation of Bosnia and Herzegovina Udruzenje Inzinjera Medicinske Radiologije Federacije Bosne i Hercegovine
<i>Council Member</i>		<b>Botswana</b>	Radiological Society of Botswana PO Box 80789, Gaborone, Botswana Tel: (267) 585475 Fax: (267) 585475 Email Soc: <a href="mailto:xina@mega.bw">xina@mega.bw</a> Mrs Avis N. <a href="mailto:C.Bareki">C.Bareki</a> , address as Society Email: <a href="mailto:avis@it.bw">avis@it.bw</a>
<b>Bangladesh</b>	Bangladesh Association of Radiology & Imaging Technologists (BARIT) President: Md. Jahangir Alam Salim Department of Radiology & Imaging National Institute of Mental Health & Hospital Shera Banglanagar, Dhaka Mobile: +8801716806062 Email: <a href="mailto:President@barit.org">President@barit.org</a>		
<i>Council Member</i>	Mr Mofazzal Hossain Department of Radiology, ICDDR, B, Dhaka-1212 Mobile: +880 01710960825 Email: <a href="mailto:baritbd2006@yahoo.com">baritbd2006@yahoo.com</a> Website: <a href="http://www.barit.org">www.barit.org</a>	<b>Burkina Faso</b>	Association Burkinabe du Personnel Paramedical d'Electro-Radiologie S/C CHNYO (Service de Radiologie) 03 BP 7022 Ouagadougou 03 Tel: 226 33 37 14 & 31 59 90/91 Poste 506 & 590 Email: <a href="mailto:abpper@bf.refer.org">abpper@bf.refer.org</a> Mr Landry Power Kabore address as Society Email: <a href="mailto:kaboreissaka@yahoo.fr">kaboreissaka@yahoo.fr</a>
<b>Barbados</b>	Barbados Association of Radiographers c/o X-ray Dept, Queen Elizabeth Hospital Martinsdale Road, St. Michael, Barbados Tel: 246 426-5378 Fax: 246 429-5374 Email: <a href="mailto:info@imagingandtherapy.bb">info@imagingandtherapy.bb</a> Web Site: <a href="http://www.imagingandtherapy.bb">www.imagingandtherapy.bb</a>		
<i>Council Member</i>	Derlwyn Wilkinson Email: <a href="mailto:bar@imagingandtherapy.bb">bar@imagingandtherapy.bb</a>	<b>Cameroon</b>	Association Camerounaise du Personnel Technique d'Electroradiologie Médicale Acptimr BP 4856, Douala, Cameroon Tel: 237 2236218 Fax: 237 2222086 Email: <a href="mailto:acptimr@yahoo.fr">acptimr@yahoo.fr</a> Website: <a href="http://www.acptimr.org">www.acptimr.org</a> Mrs Gale Tientcheu Email: <a href="mailto:galetien@yahoo.fr">galetien@yahoo.fr</a>
<b>Belgium</b>	Medical Radiological Technicians of Belgium, Avenue des Paquetteres, 23 B - 1410, Waterloo, Belgium Tel: 32 64 55 71 99 Fax: 32 64 55 71 99 Email: <a href="mailto:mrtb@skynet.be">mrtb@skynet.be</a>	<b>Canada</b>	Canadian Association of Medical Radiation Technologists, 10th Floor, 85, rue Albert Street Ottawa, ON K1P 6A4 Tel: 613 234-0012 Fax: 613 234-1097 Email: <a href="mailto:fcouillard@camrt.ca">fcouillard@camrt.ca</a> Website: <a href="http://www.camrt.ca">www.camrt.ca</a>
<i>Council Member</i>	Mr Eric Bertrand, Rue Provinciale 81, B-4042 Liers Email: <a href="mailto:Eric.bertrand@hologic.be">Eric.bertrand@hologic.be</a>	<i>Council Member</i>	position vacant
<b>Belgium</b>	Vereniging Medisch Beeldvormers VMBV/Philippw Van Laer, Beukendref 96, 9080 Lochristi, Belgium	<b>Croatia</b>	Croatian Association of Engineers of Medical Radiology, Mlinarska 38, 10000 Zagreb Tel: 00 385 1 4669771 Fax: 00385 1 4669772

<i>Council Member</i>	Email Soc: <a href="mailto:hdimr@zg.hinet.hr">hdimr@zg.hinet.hr</a> Website: <a href="http://www.hdimr.hr">www.hdimr.hr</a> Mr Nenad Vodopija Vlasicka 15, 10000 Zagreb Email: <a href="mailto:Nenad.vodopija@vmskola.hr">Nenad.vodopija@vmskola.hr</a> <a href="mailto:nenad@hdimr.hr">nenad@hdimr.hr</a>	<i>Council Member</i>	Email: <a href="mailto:errta2006@gmail.com">errta2006@gmail.com</a> Esayas Tiruneh
<b>Cyprus</b>	Cyprus Society of Registered Radiologic Technologists & Radiation Therapy Technologists 215 Old Road Nicosia-Limassol 2029, Strovolo, Nicosia, Cyprus Tel: 357 99 646410 / 357 22 604105 <a href="http://www.aktinografia.com.cy">www.aktinografia.com.cy</a> / <a href="http://www.psetaa.com">www.psetaa.com</a> Email: <a href="mailto:psetaa.cy@hotmail.com">psetaa.cy@hotmail.com</a> / <a href="mailto:psetaa.cy@gmail.com">psetaa.cy@gmail.com</a>	<i>Council Member</i>	Fiji Society of Radiographers P.O. Box 4307, Samabula, Suva, Fiji Islands Tel: 679 3215548 Email: <a href="mailto:jsalabuco@govnet.gov.fj">jsalabuco@govnet.gov.fj</a> Mr Jone Salabuco address as Society Email: <a href="mailto:jsalabuco@govnet.gov.fj">jsalabuco@govnet.gov.fj</a>
<i>Council Member</i>	Mr Thasos Athanasiou, address as Society Email: <a href="mailto:kalaidjis@logos.cy.net">kalaidjis@logos.cy.net</a>	<b>Finland</b>	The Society of Radiographers in Finland PO Box 140, 00060 Tehy, Finland Tel: 358 9 54227 521 Fax: 358 9 61500 267 Email: <a href="mailto:Toimisto@suomenrontgenhoitajaliitto.fi">Toimisto@suomenrontgenhoitajaliitto.fi</a> Website: <a href="http://www.suomenrontgenhoitajaliitto.fi">www.suomenrontgenhoitajaliitto.fi</a> Tiina Nousiainen, Email: <a href="mailto:tiina.nousiainen@suomenrontgenhoitajaliitto.fi">tiina.nousiainen@suomenrontgenhoitajaliitto.fi</a>
<b>Czech Republic</b>	Czech Radiographers Society Sekretariat SRLA CR, Na Zlate Stoce 14 370 05 Ceske Budejovice, Czech Republic Email: <a href="mailto:info@srla.cz">info@srla.cz</a> Website: <a href="http://www.srla.cz">www.srla.cz</a> <i>Council Member</i> Mr Cestmir David address as society Email: <a href="mailto:cestmir.david@medicon.cz">cestmir.david@medicon.cz</a>	<i>Council Member</i>	Association Francaise du Personnel Paramedic d'Electroradiologie 47 Avenue de Verdier, 92120 Montrouge Tel: 33-1-49-121320 Fax 33-1-49-121325 Email: <a href="mailto:webmaster@afppe.com">webmaster@afppe.com</a> Website: <a href="http://www.afppe.com">www.afppe.com</a> <i>Council Member</i> Agnès Antoine Cadre Supérieur du Pôle MTTC Hôpital de Lagny Lagny-Marne la Valee Paris France 01 64 30 74 85 Email: <a href="mailto:aantoine@ch-lagny77.fr">aantoine@ch-lagny77.fr</a>
<b>Denmark</b>	Foreningen af Radiografer i Danmark H. C. Orsteds Vej 70, 2. tv. DK 1879 Frederiksberg C Tel: 45 3537 4339 Fax: 45 3537 4342 Email: <a href="mailto:frd@radiograf.dk">frd@radiograf.dk</a> Website: <a href="http://www.radiograf.dk">www.radiograf.dk</a> <i>Council Member</i> Ms Charlotte Graungaard Bech, Dragebakken 289, 5250 Odense SV Email: <a href="mailto:charlotte@radiograf.dk">charlotte@radiograf.dk</a>	<b>Gabon</b>	Association du Personnel Paramedical d'Electroradiologie du Gabonais BP 13326 Libreville <i>Council Member:</i> Mr Apollinaire Mberagana, address as Society Email: <a href="mailto:samuelrokossa@yahoo.fr">samuelrokossa@yahoo.fr</a>
<b>El Salvador</b>	Asociación Salvadoreña de Técnicos en Radiología e Imágenes Diagnósticas 6a calle poniente y 6a ave. sur reparto 6a calle, 3-8 bis #4, Santa Tecla Email: <a href="mailto:oc.astrid_es_rad@yahoo.com.mx">oc.astrid_es_rad@yahoo.com.mx</a> <i>Council Member</i> Mrs Elizabeth Ventura, address as Society Email: <a href="mailto:oc.astrid_es_rad@yahoo.com.mx">oc.astrid_es_rad@yahoo.com.mx</a>	<b>The Gambia</b>	The Gambia Association of Radiographers and Radiographic Technicians c/o X-Ray Department, Royal Victoria Hospital Banjul, The Gambia <i>Council Member</i> Mr Abdou Colley, address as Society
<b>Estonia</b>	Estonian Society of Radiographers Sillutise 6, Parnu 80010 Tel: 372 44 7312 Fax: 372 44 73 102 Website: <a href="http://www.eroy.ee">www.eroy.ee</a> <i>Council Member</i> Ms Piret Vahtramäe Sillutise 6, Parnu 80010, Estonia Email: <a href="mailto:piretva@ph.ee">piretva@ph.ee</a>	<b>Germany</b>	Dachverband für Technologen/-innen und Analytiker/-innen in der Medizin Deutschland e.V. Spaldingstrasse 110 B, D-20097 Hamburg, Tel: 0049 40 2351170 Fax: 0049 40 233373 Email: <a href="mailto:info@dvta.de">info@dvta.de</a> Website: <a href="http://www.dvta.de">www.dvta.de</a> <i>Council Member</i> Susanne Huber Email: <a href="mailto:susanne.huber@dvta.de">susanne.huber@dvta.de</a>
<b>Ethiopia</b>	Ethiopian Radiographers and Radiologic Technologists Association Churchill Street, Addis Ababa, Ethiopia Inside ERPA, Office number 303 PO Box 20486 Code 1000, Addis Ababa Tel: +251913013983/+251925917753	<b>Ghana</b>	Ghana Society of Radiographers PO Box a602, Korle-Bu Teaching Hospital, Accra Tel: 685488 Email: <a href="mailto:gsradiographers@yahoo.co.uk">gsradiographers@yahoo.co.uk</a>



*Council Member* Mr Steven Boateng, address as society  
Email: [stboateng2000@yahoo.com](mailto:stboateng2000@yahoo.com)

**Greece** The Panhellenic Society of Radiotechnologists,  
85-87 Aristomenous Str,  
2nd Floor  
Athens 104 46  
Tel/Fax: 30 2 105 228081;  
Email: [egadakos@gmail.com](mailto:egadakos@gmail.com)  
Website: [www.aktinotechnologia.gr](http://www.aktinotechnologia.gr)  
*Council Member:* Euthimios Agadakos  
Miriofitoy 59  
Egaleo 12242, Athens, Greece  
Mob: 30 6 97657467  
Ph (BH): 30 2 107456482  
Ph (AH): 30 2 105989797  
Email: [egadakos@gmail.com](mailto:egadakos@gmail.com)

**Guyana** Guyana Association of Medical Imaging  
Practitioners  
The Senior Radiographer's Office  
Georgetown Public Hospital Corporation  
New Market Street, N/C Burge  
Georgetown, Guyana

**Hong Kong** Hong Kong Radiological Technicians  
Association, PO Box 73549  
Kowloon Central Post Office  
Kowloon, Hong Kong  
Tel: 852 3517 5451  
Fax: 852 3517 5199  
Email: [hkrt1965@yahoo.com](mailto:hkrt1965@yahoo.com)  
Website: [www.hkrt1965.com](http://www.hkrt1965.com)

Mr Apollo Wong,  
The Department of Radiology,  
Kwong Wah Hospital,  
25 Waterloo Road, Kowloon  
Email: [wongpl@ha.org.hk](mailto:wongpl@ha.org.hk)  
**Hong Kong** Hong Kong Radiographers Association  
Dept. of Radiology, Tuen Mun Hospital,  
Tuen Mun, NT  
Tel: 852 22911161  
Fax: 852 25747557  
Email: [info@hkra.org.hk](mailto:info@hkra.org.hk)  
Website: [hkra.org.hk](http://hkra.org.hk)

*Council Member* Mr Edward Chan  
Email: [chairman@hkra.org.hk](mailto:chairman@hkra.org.hk)

**Hungary** Society of Hungarian Radiographers  
National Health Institute  
Department of Radiology  
1135 Budapest, Szabolcs u. 33 - 35.  
Tel: 06 1 350 4764  
Fax: 06 1 350 4765  
Email: [hungarian\\_radiographers@yahoo.com](mailto:hungarian_radiographers@yahoo.com)  
Website: [www.mrae.hu](http://www.mrae.hu)

*Council Member* Ms Katalin Lukovich  
Email: [klukovich@ogyik.hu](mailto:klukovich@ogyik.hu)

**Iceland** Icelandic Society of Radiographers  
Felag Geislafræðinga, Borgartúni 6,  
105, Reykjavík, Iceland  
Tel: 354 588 9770; Fax: 354 558 9239  
Email: [geislar@sigl.is](mailto:geislar@sigl.is)

Website: [www.sigl.is](http://www.sigl.is)  
*Council Member* Mrs Katrin Sigurdardottir, address as Society  
Email: [katrinsig@hive.is](mailto:katrinsig@hive.is)

**India** Indian Association of Radiological Technologists,  
Department of Radiodiagnosis & Imaging  
PGIMER, Chandigarh 160012, India  
Tel: 91 172 27476389  
Fax: 91 172 2745768  
Email: [iartindia@yahoo.co.in](mailto:iartindia@yahoo.co.in)  
Website: [www.iart.org.in](http://www.iart.org.in)  
*Council Member* Dr S.C. Bansal  
No. 388, Sector 38A,  
Chandigarh 160014, India  
Email: [scbansal38@gmail.com](mailto:scbansal38@gmail.com)

**Indonesia** Radiografer Indonesia (PARI)  
Indonesian Society of Radiographers  
Daerah Jawa Tengah  
Akta Notaris No. 36 Tanggal 19 Maret 2008  
Tel: +62 24 7471258  
Email: [pari-jateng@hotmail.com](mailto:pari-jateng@hotmail.com)  
Website: <http://pari-jateng.com>

**Ireland** Irish Institute of Radiography and Radiation  
Therapy (IIRRT)  
28 Millbrook Court, Kilmainham, Dublin 8  
Tel (m): +353 87 1313795  
Fax: +353 1 6790433  
Email: [info@iirrt.ie](mailto:info@iirrt.ie)  
Website: [www.iirrt.ie](http://www.iirrt.ie)  
*Council Member* Shane Foley  
Email: [shane.foley@ucd.ie](mailto:shane.foley@ucd.ie)

**Italy** AITRI – Associazione Italiana Tecnici di  
Radiologia Interventistica  
via della Commenda 28,  
20122 Milano, Italia  
Tel: +39 340 2773464  
Email: [info@aitri.it](mailto:info@aitri.it)  
Certificated mail: [aitri@pec.it](mailto:aitri@pec.it)  
Website: [www.aitri.it](http://www.aitri.it)  
*Council Member* Diego Catania, Presidente AITRI  
Email: [cataniadiago@hotmail.com](mailto:cataniadiago@hotmail.com)

**Ivory Coast** Association Nationale des Techniciens  
d'Imagerie Médicale de Côte d'Ivoire  
21 BP 854 Abidjan 21  
Email: [antim\\_civ@yahoo.fr](mailto:antim_civ@yahoo.fr)  
*Council Member* Position vacant

**Jamaica** Society of Radiographers (Jamaica)  
PO Box 38, Kingston 6  
Tel: 809 977 2388  
Fax: 809 977 2388  
Email: [societyofradiographers@yahoo.com](mailto:societyofradiographers@yahoo.com)  
*Council Member* Ms Carlene Rankine

**Japan** Japan Association of Radiological Technologists  
31st Floor, World Trade Center Bldg.  
2-4-1 Hamamatsu-cho Minato-ku,  
Tokyo 105-6131  
Tel: 3-5405-3612 Fax: 3-5405-3613  
Email: [kimura@jart.or.jp](mailto:kimura@jart.or.jp)

<i>Council Member</i>	Website: <a href="http://www.jart.jp">www.jart.jp</a> Dr Yasuo Nakazawa, address as Society Email: <a href="mailto:y_nakazawa@jart.or.jp">y_nakazawa@jart.or.jp</a>	c/o Department of Diagnostic Imaging Hospital Kuala Lumpur, 50586 Kuala Lumpur Tel: 03-2906674 Fax: 03-2989845 Email: <a href="mailto:ms_radiographer@yahoo.com">ms_radiographer@yahoo.com</a> <a href="http://www.groups.yahoo.com/group/ms_radiographers">www.groups.yahoo.com/group/ms_radiographers</a> Ms Chan Lai Kuan address as society Email: <a href="mailto:clkmsr2011@yahoo.com">clkmsr2011@yahoo.com</a>
<b>Kenya</b>	Kenya Association of Radiographers Golf Course Commercial Centre Off Mbagath Way, Kenyatta Market Nairobi. 1st Floor Room 1.14 Tel: +254 272 0607, +254 272 0607 M: +254 724 319582 / +254 726 160562 Email: <a href="mailto:kenyaradiographers@yahoo.com">kenyaradiographers@yahoo.com</a>	<i>Council Member</i>
<i>Council Member</i>	Mr Charles Omondi PO Box 90231 Mombasa Kenya Tel: +254 725848273/254 314201 Ext. 3219 Email: <a href="mailto:comok2004@yahoo.com">comok2004@yahoo.com</a>	<b>Malta</b> Society of Medical Radiographers 127, The Professional Centre, Sliema Road, Gzira, GZR 1633, Malta M: 00356 79326219 Email: <a href="mailto:srm.malta@gmail.com">srm.malta@gmail.com</a> <a href="http://www.radiographersmalta.com">www.radiographersmalta.com</a>
<b>Korea</b>	Korean Radiological Technologist Association, 250 Yang Jae-Dong, Seocho-Ku, Seoul 137-130 Tel: 82 02 576 6524/5; Fax: 82 02 576 6526 Email: <a href="mailto:krta@krta.or.kr">krta@krta.or.kr</a> Website: <a href="http://www.krta.or.kr">www.krta.or.kr</a>	<i>Council Members</i> Ms Ivana Pace and Ms Daniella Zammit Email: <a href="mailto:srm.malta@gmail.com">srm.malta@gmail.com</a>
<i>Council Member</i>	Mr Ho NamKoong address as Society	<b>Mauritius</b> Mauritius Association of Radiographers 131c Murray Avenue, Quatre-Bornes Tel: 464-2790 Email: <a href="mailto:rboolkah@intnet.mu">rboolkah@intnet.mu</a>
<b>Latvia</b>	Latvian Society of Radiologists Institute of Radiology 13 Pilsonu Street, Riga, LV 1002 Latvia Tel: 371 714 4635 Fax: 371 714 4635 Email: <a href="mailto:nms@parks.lv">nms@parks.lv</a>	<i>Council Member</i> Mr Dooshiant Jhuboolall 41 Rue des Fauvelles, 92400 Courberoe, France
<i>Council Member</i>	Ms Elita Rutka, address as society Email: <a href="mailto:elitaru@hotmail.com">elitaru@hotmail.com</a>	<b>Mexico</b> Federacion Mexicana de profesionales Tecnicos en Radiologia e Imagen, Asociaion Civil, Juan Badiano No. 21, Colonia Seccion XVI, Delegacion Tlapan, C.P. 14080 Tel: 52 55 73 29 11, Ext.1236 Fax: 52 55 73 09 94 Email: <a href="mailto:fmptrimex@yahoo.com.mx">fmptrimex@yahoo.com.mx</a> Website: <a href="http://www.fmptri.org.mx">www.fmptri.org.mx</a>
<b>Lebanon</b>	Lebanon Society of Radiographers The American University of Beirut-Medical Centre, School of Radiography PO Box 11-0236, Beirut 1107-2020 Tel: 01961 1 35000 ext: 5070 Email: <a href="mailto:moufidaassi@hotmail.com">moufidaassi@hotmail.com</a>	<i>Council Member</i> Mr Bernardo Santin Meza address as society
<i>Council Member</i>	Mr Moufid Abou Assi Email: <a href="mailto:moufidaassi@hotmail.com">moufidaassi@hotmail.com</a>	<b>Myanmar</b> MSMRT Radiology Department Asia Royal Hospital No.14, Baho Street, Sanchaung Township Yangon , Myanmar Email: <a href="mailto:mra@macau.ctm.net">mra@macau.ctm.net</a> Website: to be built
<b>Macau</b>	Macau Radiology Association PO Box No. 9013, Macau Email: <a href="mailto:mra@macau.ctm.net">mra@macau.ctm.net</a> <a href="http://www.home.macau.ctm.net/~mra">www.home.macau.ctm.net/~mra</a>	<i>Council Member</i> Khin Maung Tin Email: <a href="mailto:xray@asiaroyal.com.mm">xray@asiaroyal.com.mm</a>
<i>Council Member</i>	Ms Cora Ng Email: <a href="mailto:coranks@gmail.com">coranks@gmail.com</a>	<b>Nepal</b> Nepal Radiological Society PO Box 5634, Maharajgunj Kathmandu, Nepal Email: Soc: <a href="mailto:radiologynepal@hotmail.com">radiologynepal@hotmail.com</a> General Secretary: Neyaj Ahmed Ganesh Bahadur Pokhare Email: <a href="mailto:g_pokharel@hotmail.com">g_pokharel@hotmail.com</a>
<b>Macedonia</b>	Macedonian Society of Radiological Technologists c/o Miroslav Kostadnikov, Institut za Radiolgija Klinichki Centar Vodnjanska 17, 1000 Skopje, Macedonia Tel: 389 2 115069; Fax: 389 2 1 66974 Email: <a href="mailto:rentgen@vnet.com.mk">rentgen@vnet.com.mk</a> Email: <a href="mailto:mariokostadinov@yahoo.co.uk">mariokostadinov@yahoo.co.uk</a>	<i>Council Member</i>
<i>Council Member</i>	Mr Zdravko Damjanovski, 32 Victor Villas, Great Cambridge Road London N9 9VP, United Kingdom Email: <a href="mailto:zak@zdravko.freemove.co.uk">zak@zdravko.freemove.co.uk</a>	<b>The Netherlands</b> Nederlandse Vereniging Medische Beeldvorming en Radiotherapie, Catharijnesingel 73, 3511 GM Utrecht Tel: 31-302318842 Fax: 31-302321362 Email: <a href="mailto:info@nvmb.nl">info@nvmb.nl</a> Website: <a href="http://www.nvmb.nl">www.nvmb.nl</a>
<b>Malaysia</b>	Malaysian Society of Radiographers	<i>Council Member</i> Ms Sija Geers, address as Society Email: <a href="mailto:s.geers@nvmb.nl">s.geers@nvmb.nl</a>



<b>New Zealand</b>	New Zealand Institute of Medical Radiation Technology PO Box 16, Oakura, New Plymouth 4345, New Zealand Tel: 0646 752 7040 Fax: 0646 752 7040 Email: <a href="mailto:nzimrt@nzimrt.co.nz">nzimrt@nzimrt.co.nz</a> Website: <a href="http://www.nzimrt.co.nz">www.nzimrt.co.nz</a>	Datong District, Taipei 103, Taiwan Tel: 886 2 2550 5181 - 2 Fax: 886 2 2550 8402 Email: <a href="mailto:artroc@mail2000.com.tw">artroc@mail2000.com.tw</a> <a href="mailto:service@twsrc.org.tw">service@twsrc.org.tw</a> Website: <a href="http://www.twsrc.org.tw">www.twsrc.org.tw</a>
<i>Council Member</i>	Ms Kathy Colgan Email: <a href="mailto:kathy.colgan@lakesdnh.govt.nz">kathy.colgan@lakesdnh.govt.nz</a> Website: <a href="http://www.nzimrt.vo.nz">www.nzimrt.vo.nz</a>	<i>Council Member:</i> Stenver Lin Email: <a href="mailto:jslin@ctust.edu.tw">jslin@ctust.edu.tw</a>
<b>Nigeria</b>	The Association of Radiographers of Nigeria, 2-4 Taylor Drive, Medical Compound, P.M.B. 1068, Yaba, Lagos Tel: Sec: Elizabeth Balogun 01 017430682, 08023226160 Email: <a href="mailto:info@the-arn.com">info@the-arn.com</a> Website: <a href="http://www.the-arn.com">www.the-arn.com</a>	<b>Republique Democratique Du Congo</b> Conseil national Des Techniciens Radiologues Republic Democratique Du Congo B.P. 12.956, Kinshasa 1
<i>Council Member</i>	Dr Mark Chukudi Okeji Tel: +2348039472126, +2348084923707 Email: <a href="mailto:markokeji@yahoo.com">markokeji@yahoo.com</a>	<i>Council Member</i> Mr Franck Bisumbula address as Society Email: <a href="mailto:franckbisumbula@yahoo.fr">franckbisumbula@yahoo.fr</a>
<b>Norway</b>	The Norwegian Society of Radiographers Raadhugst 4, oppg.A, 0151 Oslo, Norway Tel: 47 23 10 04 70 Email: <a href="mailto:nrf@radiograf.no">nrf@radiograf.no</a> Website: <a href="http://www.radiograf.no">www.radiograf.no</a>	<b>Republic of Singapore</b> Singapore Society of Radiographers Ang Mo Kio Central Post Office PO Box 765, Singapore 915609 Email: <a href="mailto:ssrexco@mail.com">ssrexco@mail.com</a> Website: <a href="http://www.ssr.org.sg">www.ssr.org.sg</a>
<i>Council Member</i>	Anna Pettersen, address as society Email: <a href="mailto:annapett@radiograf.no">annapett@radiograf.no</a>	<i>Council Member</i> position vacant
<b>Peru</b>	Asociación Peruana de Técnicos Radiólogos Av. Grau 383 Dpto., 603 Lima 1, Lima Tel: 427-0578	<b>Senegal</b> Association des Manipulateurs et Techniciens d'Imagerie du Senegal, BP 3270 Dakar
<i>Council Member</i>	Mr Magno F. Arias Jiménez Mz E-1 Lt.3 Ciudad del Pescador - Bellavista, Callao 2	<i>Council Member</i> Mr Amadou Tidjani Ball Email: <a href="mailto:amadoutidiane143@hotmail.com">amadoutidiane143@hotmail.com</a>
<b>The Philippines</b>	Rm 5&6 Medical Arts Bldg. Martinez Memorial Hospital, 198 A.Mabini St., Caloocan City Tel: (02) 285 13 93 Email: <a href="mailto:part_inc@yahoo.com">part_inc@yahoo.com</a> Website: <a href="http://www.part_inc.info/">www.part_inc.info/</a>	<b>Serbia</b> The Society of Radiological Technicians and Nuclear Medicine Technicians of Serbia Pasterova 14 Street, Institute of Radiology and Oncology of Serbia, 11000 Belgrade Serbia Tel: 38 135 472347 Email: <a href="mailto:caca2@snet.yu">caca2@snet.yu</a> Website: <a href="http://www.radteh.org.yu">www.radteh.org.yu</a>
<i>Council Member</i>	Mr Rolando Banares, Chief Radiologic Technologist Martinez Memorial Medical Centre 198A Mabini St, Caloocan City, The Philippines Email: <a href="mailto:part_inc@yahoo.com">part_inc@yahoo.com</a>	<i>Council Member:</i> Ms Slavica Pavlovic Email: <a href="mailto:cacapavlovic@yahoo.com">cacapavlovic@yahoo.com</a>
<b>Portugal</b>	Associação Portuguesa dos Tecnicos de Radiologia Radioterapia e Medicina Nuclear, Av Miguel Bombarda, n.º36 - 9ºH, 1050 - 165, Lisboa Tel: 351 217 959 539 Fax: 351 217 959 592 Email: <a href="mailto:geral@atarp.pt">geral@atarp.pt</a> Website: <a href="http://www.atarp.pt">www.atarp.pt</a>	<b>Seychelles</b> Seychelles Radiological Association c/o Radiology Section, Ministry of Health, P.O. Box 52, Victoria, Mahee
<i>Council Member:</i>	Dr Graciano Paulo Email: <a href="mailto:graciano@estescoimbra.pt">graciano@estescoimbra.pt</a>	<i>Council Member</i> Mrs Sabina Panovska Email: <a href="mailto:sabinapanovska@yahoo.com">sabinapanovska@yahoo.com</a>
<b>Republic of China</b>	Taiwan Society of Radiological Technologists (TWSRT) Department of Radiology, 6F-1, No 35, Sec 2, Chongcing N. Rd,	<b>Slovenia</b> Slovenian Society of Radiological Engineers Društvo Radiloskih Inzenirjev Slovenije Zaloska cesta 7, S1-1000 Ljubljana Tel: 386 1 5431536; Fax: 386 1 5431 321 Email: <a href="mailto:ohanuna@onko-i.si">ohanuna@onko-i.si</a> Website: <a href="http://www.dri-drustvo.si">www.dri-drustvo.si</a>
		<i>Council Member</i> Mr Dean Pekarovik Institute of Radiology, Clinical Center Zaloska cesta 7, S1-1000 Ljubljana Email: <a href="mailto:dean.pekarovik@kclj.si">dean.pekarovik@kclj.si</a>
		<b>South Africa</b> Society of Radiographers of South Africa Physical Address: Unit B44 Pinelands Business Park, New Mill Road Pinelands, South Africa 7405 PO Box 505 Howard Place, South Africa 7450

<i>Council Member</i>	Tel: +27 21 531 1231 Fax: +27 21 531 1233 Email: <a href="mailto:sorsa.admin@iafrica.com">sorsa.admin@iafrica.com</a> Website: <a href="http://www.sorsa.org.za">www.sorsa.org.za</a> Hesta Friedrich-Nel Email: <a href="mailto:hfried@cut.ac.za">hfried@cut.ac.za</a>	<b>Trinidad and Tobago</b>	Society of Radiographers-Trinidad & Tobago, General Hospital, Radiology Department, Port of Spain Tel: 868-672-5136 Fax: 868-658-0225 Email: <a href="mailto:soradtt@yahoo.com">soradtt@yahoo.com</a> Mr Aleth Bruce Email: <a href="mailto:abruce66@yahoo.ca">abruce66@yahoo.ca</a>
<b>Spain</b>	Asociacion Española de Tecnicos en Radiologia, C/ Reyes Magos 18, Bajos Dcha, 28009 Madrid Tel: 00 34 91-552 99 00 - 3105 Fax: 00 34 91-433 55 04 Email: <a href="mailto:aetr.nacional@infonegocio.com">aetr.nacional@infonegocio.com</a> Website: <a href="http://www.aetr.org">www.aetr.org</a> <i>Council Member:</i> Ms Marta Soto Garcia, address as Society Email: <a href="mailto:martasoto@inicia.es">martasoto@inicia.es</a>	<b>Turkey</b>	Turkish Society of Medical Radiological Technologists, Ege University Hospital Department of Radiology, Bornova-Izmir, Turkey Tel: 90 (232) 343 43 43/3275 or 3250-144 Fax: 90 (232) 445 23 94 Website: <a href="http://www.tmrtdr.org.tr">www.tmrtdr.org.tr</a> Email: <a href="mailto:tmrtdr@hotmail.com">tmrtdr@hotmail.com</a> <i>Council Member:</i> Mr Vural Diler Email: <a href="mailto:vuraldiler@tmst.com.tr">vuraldiler@tmst.com.tr</a>
<b>Sri Lanka</b>	The Society of Radiological Technologists – Sri Lanka 16A Kurunduwatte, Mahabage, Ragama, Sri Lanka Website: <a href="http://srtsl.weebly.com">srtsl.weebly.com</a> Tel: +94 112957126 <i>Council Member</i> Mr VG Wimalasena School of Radiography, National Hospital of Sri Lanka, Colombo 10, Sri Lanka Email: <a href="mailto:vgwimalasena@gmail.com">vgwimalasena@gmail.com</a>	<b>Uganda</b>	Uganda Radiographers Association School of Radiography, Mulago Hospital PO Box 7051, Kampala Tel: 256 041 530137 <i>Council Member</i> Kalende Rogers, address as Society
<b>Sweden</b>	Swedish Society of Radiographers, International Secretariat Email: <a href="mailto:international@swedrad.com">international@swedrad.com</a> Website: <a href="http://www.swedrad.se">www.swedrad.se</a> <i>Council Member</i> Bodil Andersson Email: <a href="mailto:Bodil.Andersson@swedrad.se">Bodil.Andersson@swedrad.se</a>	<b>Ukraine</b>	Ukrainian Society of Radiographers and Radiological Technologists, Lamouosov Str. 33/43, Kiev 03022 Tel: 38044 213 0763/483-61-26 Fax: 380 44 258 9726 Email: <a href="mailto:babiy@aruk.kiev.ua">babiy@aruk.kiev.ua</a> <i>Council Member</i> Dyemin Valentin Email: <a href="mailto:uarctmri@ukr.net">uarctmri@ukr.net</a>
<b>Tanzania</b>	Tanzania Association of Radiographers (TARA) School of Radiography, Muhimbili National Hospital, PO Box 65005, Dar es Salaam, Tanzania Tel: 255-714-273 111 <i>Council Member</i> Mr Stephen Samson Mkoloma Ocean Road Cancer Institute (ORCI) PO Box 3592 Dar es Salaam, Tanzania Email: <a href="mailto:stephenmkoloma@hotmail.com">stephenmkoloma@hotmail.com</a>	<b>United Kingdom</b>	Society and College of Radiographers 207 Providence Square Mill Street, London SE1 2EW Tel: 44-207 740 7200 Fax: 44-207 740 7204 Email: <a href="mailto:info@sor.org">info@sor.org</a> Website: <a href="http://www.sor.org">www.sor.org</a> <i>Council Member</i> Pam Black Email: <a href="mailto:PamB@sor.org">PamB@sor.org</a>
<b>Thailand</b>	Society of Radiological Technologists of Thailand, Dept. of Radiological Technology Faculty of Medical Technology Siriraj Hospital, Bangkok 10700 Tel: 622 419 7173 Website: <a href="http://www.tsrt.or.th">www.tsrt.or.th</a> <i>Council Member</i> Mr Sala Ubolchai Email: <a href="mailto:sala1950@hotmail.com">sala1950@hotmail.com</a>	<b>USA</b>	American Society of Radiologic Technologists 15000 Central Avenue SE, Albuquerque, New Mexico 87123-3917 Tel: 505-298-4500; Fax: 505-298-5063 Website: <a href="http://www.asrt.org">www.asrt.org</a> <i>Council Member</i> Donna Thaler Long Email: <a href="mailto:dlong2@iuhealth.org">dlong2@iuhealth.org</a>
<b>Togo</b>	Association Togolaise Des Techniciens De Radiologie et D'Imagerie Medicale S/CM AMIDOU Houdou, BP 30284, Lome Tel: (228) 25 25 91; Fax: (228) 25 25 91 Email: <a href="mailto:arrtim@yahoo.fr">arrtim@yahoo.fr</a> <i>Council Member</i> Amidou Houdou TSRIM, Chu-Campus Service de Radiologie (Pavillon Scanner), BP 30284, Lome Email: <a href="mailto:houdou.amidou@syfed.tg.refr.org">houdou.amidou@syfed.tg.refr.org</a>	<b>Vietnam</b>	Ho Chi Minh City Association of Radiological Technologists – HART 201 Nguyen Chi Thanh, Ward 12, District 5, HCMC, Vietnam Tel: +84 8 39551352; +84 983 371 798 Email: <a href="mailto:Vietnam.art.2014@gmail.com">Vietnam.art.2014@gmail.com</a> <i>Council Member</i> Mr Thai Van Loc Email: <a href="mailto:thaivanloc@hotmail.com">thaivanloc@hotmail.com</a> Website: in the building process





[www.isrirt.org](http://www.isrirt.org)