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 News & Views reaches 72 countries, 4,500 associate members, libraries and schools of radiography, government bodies and professional societies.

The following are costs for colour advertising as at January 2020.

<table>
<thead>
<tr>
<th></th>
<th>1 issue</th>
<th>2 issues</th>
<th>3 issues</th>
</tr>
</thead>
<tbody>
<tr>
<td>full page</td>
<td>£300</td>
<td>£550</td>
<td>£750</td>
</tr>
<tr>
<td>half page</td>
<td>£225</td>
<td>£400</td>
<td>£500</td>
</tr>
<tr>
<td>quarter page</td>
<td>£100</td>
<td>£150</td>
<td>£200</td>
</tr>
<tr>
<td>one eighth page</td>
<td>£60</td>
<td>£100</td>
<td>£150</td>
</tr>
</tbody>
</table>

SIZES:

FULL PAGE:

NO BLEED: 170mm x 228mm
BLEED: 210mm 273
HALF PAGE: 210mm x 140mm
QUARTER PAGE: 92mm x 140mm

Please send hi-res print ready file (PDF, JPG) to:
CEO Email: ceo@isrrt.org
Production Editor: deepbluedesign1@me.com

ISRRT subscription can be made via PayPal

Associate Membership subscription for ISRRT can be made via the ISRRT PayPal account for one and three years subscription via the website as well as accepting donations.

Now is the opportunity to join as an associate member!

website
www.isrrt.org

We are always looking for new Corporate sponsors and ideas to generate funds for all our activities.

Ideas are invited that would generate valuable funds – please contact ISRRT Treasurer Philippe Gerson at philgerson@neuf.fr
## CONTENTS

**REPORT**
- Strengthening medical imaging in the African region ........................................ 12
- 6th Annual Radiology Meeting, UAE ................................................................. 16
- ISRRT 21st World Congress .............................................................................. 18
- ISRRT first online World Congress Annual Meeting ..................................... 21
- ISRRT first online World Congress ................................................................. 24
- World Radiography Day celebrations ............................................................... 28
  - Thailand ........................................................................................................ 30
  - Madagascar .................................................................................................. 32
  - Indonesia ...................................................................................................... 34
  - Oman ............................................................................................................ 36
  - Lebanon ........................................................................................................ 38
  - Greece .......................................................................................................... 40
- 65th Anniversary of PARI .................................................................................. 42
- RSNA 2021 ....................................................................................................... 44

**ARTICLE**
- Vale – Khin Maung Tin ...................................................................................... 11
- Roentgen’s rapid rise .......................................................................................... 47

**NEWS**
- News from member societies:
  - The Americas: America .................................................................................... 55
  - Europe: Portugal, United Kingdom, Greece ................................................ 56
  - Australasia: Jordan, United Arab Emirates ................................................... 57
  - Africa: Madagascar, Mali, Tanzania ............................................................... 59

**REGULARS**
- ISRRT Officers of Board of Management ....................................................... 4
- ISRRT Committee Regional Representatives ................................................ 4
- President’s report ............................................................................................... 5
- CEO report ........................................................................................................ 8
- Professional Practice report ............................................................................. 48
- Director of Education report ............................................................................. 35
- WRETF .............................................................................................................. 54
- Contact details for ISRRT editorial and advertising ....................................... 2
ISRRRT OFFICERS: BOARD OF MANAGEMENT

PRESIDENT
Donna Newman
donnanewman@gmail.com

VICE PRESIDENTS
The Americas
Terrence (Terry) Ell
terryell@shaw.ca

Asia and Australasia
Dr Napapong Pongnapang
napapong@hotmail.com

Europe and Africa
Håkon Hjemly
hakon@radiograf.no

REGIONAL DIRECTORS
Europe
Euthimios (Tim) Agadakos
eagadakos@gmail.com

Africa
Boniface Yao
kwame_boniface@yahoo.fr

Asia and Australasia
Tan Chek Wee
sunrisepl@hotmail.com

The Americas
Sharon Wartenbee
wartenbee@sio.midco.net

TREASURER
Philippe Gerson
philgerson@neuf.fr

DIRECTOR OF EDUCATION
Yudthaphon Vichianin
yudthaphon@gmail.com

DIRECTOR OF PROFESSIONAL PRACTICE
Stewart Whitley
aswhitley@msn.com

DIRECTOR OF PUBLIC RELATIONS & COMMUNICATIONS
Alain Cromp
acromp@ac-consultant.ca

CHIEF EXECUTIVE OFFICER SUPPORT SERVICES
Dimitris Katsifarakis
ceo@isrrrt.org

FINANCE COMMITTEE
Philippe Gerson
Napapong Pongnapang
Terry Ell
Håkon Hjemly
See Board of Management for Finance Committee contact.

ISRRRT COMMITTEES REGIONAL REPRESENTATIVES

EDUCATION COMMITTEE
Europe
Ozan Tekin
tekin765@gmail.com

Africa
Hesta Friedrich-Nel
hfried@cut.ac.za

Asia and Australasia
Yudthaphon Vichianin
yudthaphon@gmail.com

The Americas
Dr Robin Hesler
lscolonel@rogers.com

PROFESSIONAL PRACTICE COMMITTEE
Europe
Pam Black
pamb@sorf.org

Africa
Elizabeth Balogun
kanmibalo@yahoo.com

Asia and Australasia
Naoki Kodama
n_kodama@iart.or.jp

The Americas
Christopher Steelman
csteelman@x-rayintl.org

PUBLIC RELATIONS & COMMUNICATIONS COMMITTEE
Europe
Hanna Kalliomäki
hanna.kalliomaki@sorf.fi

Africa
Stephen Mkoloma
stephenmkoloma@hotmail.com

Asia and Australasia
Edward Wong
wongthe@gmail.com

The Americas
Timmerie Cohen
tfcohen@vcu.edu

DEAR ISRRT MEMBERS,

As I write this column, I am finally at my first in-person meeting at the RSNA 2021 in Chicago, the first such meeting in the last year and a half. Just when we thought the COVID-19 pandemic would start to wind down we have now heard of the Omicron strain which we first heard of originating in Africa and now being seen in all parts of the world including the United States. This pandemic will surely continue to persist in challenging healthcare systems and professional organizations, stakeholder meetings and medical conferences. Until countries have adequate resources and vaccine programs these variants will continue to affect our profession and the healthcare systems in general.

I am sad to say, that this year, we all have lost a great mentor, teacher and educator, Mr Khin Maung Tin, President of the Myanmar Society of Medical Radiation Technologists and ISRRT Council member for MSMRT. Mr Khin Maung Tin lost his life to the COVID-19 pandemic and for this I am very sad as many others too have also passed away to the virus. I have always looked up to Mr Knin Maung Tin as a pioneer in our Radiography profession. I am so grateful that I had the opportunity to serve beside him and work with him over my entire involvement in the ISRRT. I know he has touched many lives and professionals. Mr Khin’s lasting legacy needs to be honored and remembered for his selfless giving to his students and radiography professionals all over the world.

Although we are doing most of our
professional work online, as your President I am so pleased to celebrate some important milestones for the ISRRT. The ISRRT has made history having its first online Council meeting with over 40 member countries represented at the meeting. We now have 9 new ISRRT Societies members voted successfully as members at this historic meeting, this is such exciting news for our profession.

During this important meeting, for the first time in 20 years, we now have a consensus document on the definition of a Radiographer/Radiological Technologist. I couldn’t be more pleased to share this news with you. Also decided at this online council meeting the council members voted successfully for a new membership category for Academic Institutions which will allow for many international global research collaborations.

The ISRRT also hosted their first Online World Congress with the Irish Society which turned out to be a great success due to the hard work of the congress committee. I am proud to say that we continued with all the normal traditions at the opening and closing ceremonies including the traditional parade of ISRRT Member societies, at the opening ceremony, lighting of the World Globe, turning off of the World Globe and handing over of the ISRRT Flag to the next country hosting our next World Congress by slightly adapting the Online platform.

The ISRRT celebrated World Radiography Day this year by honoring the role of the radiographer in the COVID-19 pandemic. This pandemic has affected millions of our friends and families including our own ISRRT members from all over the world. As your international organization the ISRRT appreciates all the radiographers worldwide who are serving as frontline healthcare workers. We thank you for sacrificing your time and families to care for our patients. You will find several articles featuring the ISRRT’s celebrations including our Facebook live World Radiography Day session, the ISRRT Special book edition issue for the ‘World Radiography Day’ with the accompanying Poster celebration shared with our members societies. This issue truly demonstrates the ISRRT member societies commitment to advocating, promoting and educating on behalf of our profession.

ISRRT Facebook Live continues to be a success partnering with external stakeholders whenever possible. ISRRT co-hosted with the WHO a Facebook Live session to celebrate World Patient Safety Day in September, 2021 called “Radiographers and Radiological Technologists celebrating World Radiography Safety Day. Another first time Partnering, was with FUJIFILM Asia-Pacific HealthCare Learning Academy Education where ISRRT collaborated to bring a 4-part series webinar this past November. Our first co-hosted session, “Art of Digital Radiography” was a huge success. As President along with several of our ISRRT BOM we continue to develop, coordinate and participate with these and all our ISRRT Facebook live session.

As your President I and the ISRRT BOM have been busy representing the ISRRT at Global Stakeholder meetings and National Congresses. I am excited to report that I and several other of the ISRRT leadership had the opportunity to celebrate the 65th Anniversary of the PARI Indonesian Radiographers Society. I represented the ISRRT as a panelist, delivering the opening address and welcome remarks as well as several other BOM members gave congratulatory pre-recorded remarks that were played during the celebration part of the program at the 9th Online CPC program for Asian Radiographers which was hosted by PARI. Congratulations from the ISRRT BOM on your 65 years of dedication to the Radiography profession.

I also participated in the 56th Congress of Korean Radiological Technologists and 126th Anniversary of World Radiography Day. This included presenting a cooperation congratulatory video for their Roentgen award given to the 5th-6th KRTA President Yang Ki Lee. The award was presented in recognition of Mr Yang Ki Lee’s 60 years as a radiological technologist of the Republic of Korea and for his contribution the technical development of the medical radiology in Korea and worldwide.

I represented the ISRRT at the ISR Quality and Safety Alliance Meeting (ISRQSA) Meeting with international organizations and international professional organizations (ICRP, ISRRT, IOMP, WFPI, WFUMB, IAEA, WHO) which was held on-line on Nov 11, 2021 D. Frush welcomed the stakeholder organizations to the meeting, which is generally held during the RSNA meeting but was held online due to the ongoing COVID 19 pandemic. The meeting, which is generally held during the RSNA meeting but was held online due to the ongoing COVID-19 pandemic. The organization representatives were asked to discuss collaborative opportunities on international matters on Quality and Safety. I presented on 3 collaborative opportunities ‘Promoting Quality and Safety in Medical Imaging’ using the ISRRT Facebook live sessions, the ISRRT On-line learning platform and the ISRRT Poster campaign which all have had a huge success over the last year. Dr Donald Frush, considered this an excellent suggestion to use the ISRRT Facebook live sessions with representatives from the international organizations presenting and a panel discussion to follow, adding that ISRQSA can act as a convener. He added that for radiologists/imagers it is equally important to hear the opinion of radiological technologists/radiographers. Dr Frush said that he was glad and proud about the valuable talks with the high-level representatives of the ISRQSA safety alliances and
collaborating stakeholders and was impressed with their productivity and spoke of the tremendous success since the ISROSA started.

The World Radiography Educational Trust Foundation (WRETF) held their 2nd World Radiography and Radiation Therapy Student Day on November 19, 2021 with the theme ‘Preparing Future Leaders for Emerging Challenges’ with approximately 200 students participating. I had the opportunity to be a speaker and presented on behalf of the ISRRT sharing our views on how to prepare future students for our Profession. I want to congratulate the WRETF on their successful program and look forward to seeing some of these students as future leaders in the ISRRT.

During RSNA I presented the ISRRT update at our informal meeting with our ISRRT members societies in attendance, met with our members during the exhibit hours and helped with the sessions ISRRT had sponsored as part of the Associated Science Consortium.

On behalf the of the ISRRT BOM I want to congratulate the ISRRT Director of Professional Practice Stewart Whitley and his working group who been very busy finalizing and launching of the, “ISRRT Safety Culture and General Safety Management Guide for Diagnostic and Radiation Therapy Departments” this past October. The guide provides information on team roles in imaging and therapy to ensure that safety and safety culture issues are being met. I couldn’t be prouder of the work this group has put together to help elevate safety and healthcare around the world. Read more about the guide in the Professional Practice update in this issue or if you are interested in downloading a copy of this free guide go to the ISRRT website www.isrrt.org under professional practice guide and help disseminate the guide in your country.

On a personal note, I want to congratulate Charlotte Beardmore on the wonderful job she did as EFRS President I really appreciate the opportunities we had to collaborate and present together during your presidency.

I would also like to congratulate good friend Charlotte Graungaard Falkvard (pictured left) from Denmark who was one of the first people I met when I got involved in the ISRRT and who is the newly elected EFRS President. The EFRS is in great hands, I am really looking forward to serving beside you and collaborating with you during the remainder of my presidency. Much remains to be done in our profession and I believe we can achieve much with the two of us leading our organizations.

Donna Newman
ISRRT President
DEAR READERS OF THE December 2021 Issue of the News & Views,

Another challenging year is coming to an end. The year which at its last days finds the people globally under the cloud of the pandemic’s fear. Certainly, the systematic tireless efforts of the science and technology brought hope to humanity by the vaccine developing in a rather short preparatory time and a safe manner.

Radiographers, imaging and therapy technologists effectively were and always are in the forefront of the healthcare services, showing a remarkable professional altruism by providing timely and accurate services to those in need.

The ISRRT, was very active all over the year despite the barriers of any personal contact, and the limitations to travel mainly the first 7 months of the year, which has affected the form the Council meeting and the World congress had plan to have.

As you already know, and many of you have experienced, the ISRRT Council Meeting in Dublin took place virtually through an electronic platform, past August. As you all know the Council is the Governing body of the ISRRT.

This fact had some important-positive aspects: Gave the opportunity to every Council member to participate without the need to travel. Although nothing can replace the in-person meeting of people, nothing is comparable to the feeling of smiling and shaking colleague’s hands, the new experience of the electronic meeting have enhanced the ISRRT’s members participation by giving the chance to Council Members who might have not be in convenience to travel to Dublin, to take part to this important meeting of the ISRRT.

Each council member had the chance to vote and influence the Policy-direction to the ISRRT.

However, participants wish to have more time for each Council member to speak and express their views on the agenda items. This is a real deterioration-drawback-of the communication through the electronic platforms.

Despite that fact, important decisions have made by the Council, amongst them the change of the funding model of the ISRRT.

New societies have been accepted to join the ISRRT giving growing to the power and the dissemination of the ideas and practices of the ISRRT to more imaging and therapy professionals around the globe.

From this column I welcome the nine new societies who recently joined the ISRRT, and we all are looking forward to seeing their contribution to the organization of our heart-the ISRRT.

The Council Meeting decisions are now a new reality in the ISRRT. Board along with me are working to align the function of the ISRRT according to the Council’s decision.

As the Chief executive I must thank the societies who already have sent their annual subscription according to the new funding model calculation, and to remind to those who are planning to do so the deadline which is the 31st of December 2021.

The 21st ISRRT World Congress took place, mainly virtually through an electronic Platform.

A few lectures, debates and sessions made in a typical lecturing room with their speakers and moderator present though without attendees.

In terms of attendee’s participation and the dialogue which has developed in most of the sessions, many colleagues have been pleased and have expressed their satisfaction on the way the electronic systems run, without any technical problems as well as the synchronization of the speakers, moderators, participants.
All these have made a reality thanks to the hard and tireless efforts of the Local Organising committee, our colleagues from the Irish Society, the Irish Institution of Radiography and Radiation Therapy. From this column, I must congratulate the President, my good friend Mr Dean Harper, a Council Member friend for many years, Mrs. Michelle Monahan and all the organising committee members who turned the difficult project of a world congress, into an electronic form to a huge success.

As the Chief executive I was invited to speak on several national congresses through the platform.

Although it was challenging due to time zones and technical boundaries, nothing was difficult enough to prevent us to be in contact and giving the influence of the ISRRT to the participant colleagues.

I deeply thank the president of the Indonesia Society-PARI, the President of the Society of Indian Radiographers-SIR, the president of the Italian society, AITRI for the honor made to me to be invited and speak at their congress.

Finally, as we are fast approaching to the end of the calendar year 2021, I wish you and the people around you a happy festive season and hope that 2022 brings us – through the vaccines and pharmaceutical developments – the freedom from the COVID-19 pandemic.

Dimitris Katsifarakis
Chief Executive ISRRT

Dimitris Katsifarakis, ISRRT Chief executive addressing the 21st World Congress Dublin from his office, as the Congress was mainly virtual due to the COVID-19 pandemic.
**VALE**

**Khin Maung Tin**

THE world of radiography, radiologic technology and education leaders, professionals and students honor Khin Maung Tin, who among other radiographers and radiologic technologists, have lost battle against COVID-19 in 2021.

Khin Maung Tin was the President of Myanmar Society of Medical radiation Technologists and Chief Technical Advisor and worked as the Chief Radiographer of Asia Royal Hospital Imaging Department in Yangon, Myanmar.

He was the International Council Member of the MSMRT to the International Society of Radiographers and Radiologic Technologists (ISRRT).

President Khin Maung Tin is one of the founding presidents of the South East Asia Radiographers Conference and one of the presidents who formed the CPD Asia, Continuing Professional Development Program Online Platform for Radiologic Technology Societies in Asia.

President Khin was a true leader, someone who has earned respect through his many notable contributions, outstanding qualification and inspirations.

Many follow in his footsteps and made him become the guiding light for the radiologic technology students and radiographers not only in Myanmar but in many countries. He has carried the torch of wisdom and enlightens his society thereby lead his students and members to the path of progress and growth.

Having the true mark of a great leader, he has set certain benchmarks and has achieved the goals set to put towards achieving more advanced directions for the radiography education and practice.

In his entire leadership, and as an ambassador of the World Radiography Education Trust Foundation, he made use of his energy, made sure to channel it and devoted himself for the growth and progress of radiography education in Myanmar.

President Khin Maung Tin, was a role model and great true leader who unfailingly imparted good thoughts and visions to us all, and gave his sincerest motivations and best memories of mentorship and most of all, friendship.

*PRESIDENT KHIN MAUNG TIN, YOU BROUGHT A BEAM OF LIGHT TO EACH OF US, AND WE SHALL KEEP ITS ENERGY RADIATING!*

Peachy S. LUNA, RRT. MAED
Philippines
Medical imaging plays a pivotal role in contemporary medicine because it allows the diagnostic process to be shortened with a leap in efficiency greater than old clinical techniques, thus allowing efficient patient management.

Despite the crucial importance of this medico-technical modality in the fight against infectious and non-infectious diseases, it has not benefited from the interest and the many support efforts in Africa such as laboratory services.

In the opinion of front-line professionals such as radiographers and medical radiation technologists, medical imaging will have to come out of its reserve to increase accessibility to a greater number of people. Thus, medical imaging procedures must be integrated into all essential health services delivery by emphasizing quality and innovation. Here are the objectives of the 11th congress in French-speaking Africa for medical imaging and radiotherapy CAFIMRA 2021.

In addition, given the importance given to the appropriate engagement of medical imaging in the provision of care and in the implementation of universal Health Coverage (UHC), WHO and its partners wish to plan a rational regional strategy including the support of medical professionals in the African region. To this end, a survey was developed to establish the status of medical imaging services and practices in the region. The priority areas explored are health policies, organizations and networks of health structures, financing, regulations, human resources, medical facilities and equipment, IT and statistics.

The 11th French-speaking African Congress of Medical Imaging and Radiotherapy opened on November 4, 2021, on the theme “quality, innovation and safety of care in a COVID-19 context”, in the auditorium of the NYON room of the Hotel Falaise of Yaoundé in Cameroon. Its objective was, among others, to prepare medical imaging technicians and engineers to become aware of the place of medical imaging and to lead them to support the regional strategy of universal health coverage.
healthcare settings to promote the application of international basic radiological safety standards (BSS) in healthcare settings and to support the implementation of 10 priority actions identified in the Bonn call to action. In that process, the Radiation and Health Unit of WHO works to improve the quality and safety of the use of radiation for medical imaging, which is essential for the diagnosis and management of non-communicable diseases (cancer, heart disease, stroke, chronic disease obstructive pulmonary disease), communicable diseases (tuberculosis, COVID-19), trauma and injury. In this context, the technical teams at WHO headquarters are collaborating with AFRO / ARD / Diagnostic and Laboratory Services Unit and the ISRRT to assess the current situation of medical imaging in the WHO African region, to inform strategies and actions to achieve universal health coverage (UHC).

A comprehensive survey of the services and practice of radiology in the region requires buy-in from the stakeholders, the medical imaging technicians and engineers of Africa. The workshops organized during CAFIMRA are designed to sensitize the leaders of professional associations of medical imaging technicians in the region with a view to obtaining their membership and their active participation in the implementation of the project. In the practical organization, 4 groups were formed according to the following format.

**Group 1 named Team Spirit** made up by Burkina Faso, Ivory Coast and Congo Brazzaville worked on the theme Governance and leadership of Professional societies

**Group 2 named Equity** composed of Democratic Republic of Congo, Central African Republic and Tchad worked on the theme Infrastructure and medical imaging equipment in health services and digital transition in Africa.

**Group 3 named Commitment** composed of Mali, Cameroon, Senegal, Ivory Coast Initial and continuing training of human resources healthcare providers in medical imaging

**Group 4 named Excellence** enrolled Tchad, Cameroon and Burkina Faso and worked on quality and safety management in medical imaging practices.

The group’s mission was to:
- Conduct reflections on the themes assigned to them
- Identify the shortcomings and points of vigilance to be taken into account,
- Integrate the proposals adopted by consensus in the documents
- Write a report that summarizes the group’s achievements.

Each group was asked to work on producing a word document as well as a powerpoint file for presentation purposes during the plenary feedback. The groups organized themselves by appointing a chairman from among them who in turn chose a secretary and a rapporteur. The restitution in plenary provided for a 10-minute presentation of the results of the group’s discussions followed by 5 minutes of discussion and adoption by consensus of the information produced.

**Outcomes**

**Situational analysis**

The practice of Medical Imaging in French-speaking Africa is booming in large urban areas of the country. In relation to the inventory, it was revealed, through analyzes of the 4 groups, the following:

- modern installations that do not comply with the regulations, in particular the criteria for shielding the walls, respecting the useful surface area, the geographical location of the services as well as the topographical arrangement of the equipment in the room;
- the existence of several infrastructures in both the public and private sectors that do not meet the standards required by regulatory agencies;
- the quality of infrastructures and equipment are generally not adapted to the needs of users of medical imaging services, hence the quality and safety management (instability of the current responsible for the deterioration of devices, quality control) are relegated to the background;
- lack of personal protection means in radiation protection (rare wearing of dosimeter, apron, thyroid mask by staff) and of collective and protection means (fire extinguisher, signaling);
- the transition to digital which is in its infancy, not benefiting from rigorous planning;
- the funding of projects in the field of medical imaging, is still too low;
- Basic training of human resources not rigorously organized, with the absence of a structure in some countries, a multiplicity of establishments and curricula in others;
- unformalized continuous professional development and above all abandoned in the hands of professional associations;
- The lack of professional orders able to lead the destiny of the profession in the different countries (11 member countries out of 18 of CAFIMRA have a functional national association; 61.11% against 38.89).

**Consequences**

- The inadequacy of health structures with medical imaging modality causes the problem of access to radiology care. As for the non-respect of the standards of choice and acquisition of infrastructures and equipment, it leads to a reduction in the lifespan of the equipment, to the unavailability of services, which prevents providers from ensuring the continuum of care and patients to receive adequate services when needed.
- As consequences, medical imaging services are in some cases made up of old buildings with narrow rooms with an anarchic arrangement of equipment, which causes excessive irradiation of staff and patients and the public. Failure to respect the principles of quality leads to poor quality of the results of examinations and unnecessary irradiation of staff.
- In terms of training, the consequences can be summed up in an insufficiency observed in the curricula responsible for inequality in the acquisition of knowledge and the transfer of skills among learners, a reduced number of qualified personal.
- The absence of a professional order or the lack of membership of associations is a limiting factor for the organization of professional activity at the local level as well as the operationalization of networks of African medical imaging...
technologists [CAFIMRA, ISRRT]. This decreases the profession’s power, weakens its dynamism and makes it silent or absent in decision-making bodies.

Proposals and suggestions
- Formalize professional practice internships with a multiplication of internship structures;
- Create an inter-African school of medical imaging and radiotherapy with a harmonized program and training offers in Bachelor, Master and Doctorate;
- Revitalize continuous professional development with accredited programs to manage the issue of skills building;
- Create an Inter-African College of Medical Imaging and Radiotherapy Technologies to supervise the training of professionals in the sub-region;
- Encourage the creation of professional orders in the various countries of the sub-region with a view to forming an African council of the order of technicians and engineers in medical imaging and radiotherapy;
- Ensure the creation of an African federation of associations of medical imaging technologists and radiotherapy;
- Plaid for the recognition of the various associations as public utility associations in order to benefit from the subsidy and support from States;
- Ensure the organization of joint activities bringing together the two English-speaking and French-speaking areas with the possibility of providing a translation service for a better sharing of skills;
- Develop the leadership of professional associations to the point of involving them in decision-making relating to the practice of the profession;
- Promote the establishment of radiation protection and nuclear safety authorities in countries that do not yet have them and revitalize those that do exist;
- Establish quality assurance programs to ensure periodic quality control of equipment;
- Integrate trained personnel into the process of acquisition of equipment
- Place particular emphasis on the training of trainers in medical imaging and radiotherapy technology as well as in radiation protection, overload and nuclear safety.

Strategy for implementing the proposals and suggestions
- Organize a full restitution of the workshop to all members of national associations during a general assembly meeting;
- Share the full report of the workshop to the administrative and technical bodies of different countries whose professional associations participated in CAFIMRA;
- Set up an action plan for the implementation of the proposals as well as a monitoring plan;
- Development and signing of a declaration representing the commitment of the various associations to actively participate in the project to strengthen medical imaging in universal health care;
- Share the workshop report to all other French-speaking countries in order to inform them about the project

Requirements from the workshop
As regional and national champions and key players in medical imaging in Africa, participants shared their appreciation, views, suggestions, and ideas to facilitate the implementation of this survey. In order to demonstrate their commitment to support the WHO project on strengthening medical imaging in the universal health coverage strategy, all the delegations of the associations present drafted and signed a declaration called ‘the Yaoundé declaration on strengthening universal health coverage’.
In addition, a list of technicians and engineers who participated in the workshop was established to represent focal points per country in order to facilitate information sharing and project support.

Conclusion
The primary focus of the ISRRT, and its contribution to global health, is education and the establishment of standards of practice. This is an objective that the regional committees are called upon to encourage in order to develop the capacities and skills of their members. The exceptional mobilization shown by the participants for this workshop is the manifestation of this vision.
The ISRRT capacity building workshops are designed to provide all delegates with the opportunity to collaborate and share experiences in various fields. This aims to provide a platform for exchange in order to more effectively address the issue of interventions by medical imaging and radiotherapy technical staff in the regional health strategy in the context of the COVID-19 pandemic.
Due to the partner network created by the ISRRT board, we obtained the support of the WHO for a capacity building of the leaders of the associations on the strategy of integrating medical imaging in the regional project of universal health coverage in French speaking Africa.
Many thanks to Dr Maria Del Rosario Perez from the Radiation and Health Unit of WHO and to Dr Coulibaly Scheik Oumar representing WHO Africa who did everything to ensure that this support was provided to us.
Despite the form modern imaging and therapy units will take, the accuracy of their results will be closely related to the conscious behavior of the radiographer, in order to provide a comprehensive examination in a safe and secure environment.
The role of the ISRRT is to bridge the gap while keeping the channels of communication open to clearly and loudly make the voice of the medical imaging and radiation therapy profession heard loud and clear in the most relevant fora where key decisions are made.
The main axis of the regional policy of the ISRRT is to strengthen solidarity within the sub-region, in order to bring Africa to the world and this cannot be done without the main actors which are the radiographers. This is why, on behalf of the president and the board of management of the ISRRT we made a vibrant appeal to all colleagues so that they play their role as active animators of our mother society, because we are the future of the ISRRT.!
The 6th ARM (annual radiology meeting) takes place every year in DUBAI and it is organized by the RSE (Radiological Society of the Emirates) and also by the RASE (Radiographers Society of the Emirates).

This congress, online in 2020, was this year both online and in person under the chairmanship of DR ABDUL Salam AL MADANI and Dr Oussama Al Bastaki.

RASE is a member of ISRRT since our last World Congress in Dublin last August. I was very lucky to be invited 3 times to the ARM congress in Dubai and I was able to measure the progress made since the creation of the RASE association.

Indeed at the entrance of the congress, a large poster of the RASE presented the employees of the association composed of its president Hashim Alawadi, of its vice president Hessa Khalifa sultan Ben Sulaiman, of its head of the cultural committee Laila Bin Guba and of course Samar Ahmad al Farra, president of the RASE scientific council.

A beautiful technical exhibition allowed participants, radiologists, radiographers, to meet the partners again and learn about new developments in the field of imaging.

I particularly appreciated the fact that the presidents of the congress during the opening ceremony thanked the radiographers of the emirates for their full involvement in their work and with patients in this time of COVID.

I also noted the exemplary hygienic and preventive conditions throughout the congress respecting distances, hand washing and other precautions that we are now familiar with.

A 2-day scientific program composed of communications from radiologists but also from radiographers on various subjects of imaging and training was offered to us.

I presented a paper on the profession of radiographer in France and was able to communicate face to face with the delegates who came this year mainly from the Emirates or Kuwait.

It was a transitional convention in this time of COVID. The organizers were able to manage the scientific program and the meetings of the delegates at minimum, but it was nice to see each other face to face.

We hope for a return to normal next year with, as it should be, with more participants from the Maghreb countries and from middle east and arabic countries.

I thank my friend Hashim, president of RASE and of course my very dear colleague Samar always so energetic and motivated for our profession, for welcoming me to Dubai under excellent conditions.

A little anecdote to conclude, the Vice President Hessa, a long-time friend, gave birth to a little mohamed during the congress, explaining her absence.

On behalf of the ISRRT, we wish Hessa and her family the best of luck with this baby of the ARM 2021

Philippe Gerson
ISRRT Treasurer
News & Views

Editorial submissions & deadlines

Deadline for the three issue per year are:

- March 10 (April issue)
- July 10 (August issue)
- November 10 (December issue)

All material must be sent electronically. Advertisements and images must 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 the Editorial Committee.

Advertisements/Secretariat

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

To submit news or to advertise please contact the ISRRT Chief Executive Officer: Mr Dimitris Katsifarakis ceo@isrrt.org

Keep up-to-date with all the latest ISRRT news through:

ISRRT Website at
www.isrrt.org

ISRRT Facebook at
www.facebook.com/isrrt.org/

ISRRT Twitter at
twitter.com/isrrt

For a full list of the names and addresses of member societies & ISRRT Council Members please go to the link at:

www.isrrt.org/national-societies
On August 20, 2021, the 21st ISRRT World Congress was convened in a virtual format from the Convention Centre in Dublin Ireland representing the culmination of over five years work by the local organising committee and the ISRRT Board. This Congress marked the first ever virtual assembly in the society’s history. The Congress was initially scheduled for August 2020 in the traditional live format but due to the Global COVID-19 Pandemic, a joint decision was made to postpone until 2021 in the hope that a face to face or hybrid meeting would be possible.

Despite the uncertainty surrounding international and local restrictions leading up to the event, the roll-out of vaccination programmes worldwide offered renewed hope that a hybrid event hosted from Dublin would be possible. The Irish Institute of Radiography and Radiation Therapy (IIRRT) in conjunction with the ISRRT Board had worked tirelessly in the background to make this a reality but unfortunately this proved to be impossible and instead, in the 11th hour, the difficult decision was made to switch to a fully virtual format over the three days. As this was the first virtual Congress of the society’s history, it posed significant operational and logistical challenges which required an enormous amount of planning and resources. The IIRRT would like to thank the ISRRT President Donna Newman and the Board for their full support in tackling this venture collectively and in placing their trust in our vision.

One of the main goals for both the local organising committee and the ISRRT Board when the decision was made to switch to a fully virtual format was to ensure that all of the wonderful work by our speakers and poster presenters could be showcased to the highest standards. We also wanted to be able to provide our delegates,
sponsors and contributors with as close to a traditional Congress experience as possible in a virtual environment. The IIRRT local organising committee researched a number of options before ultimately choosing CrowdComms as our virtual platform provider as their platform and support was best aligned with our needs. We worked closely with Stuart Hadden and the Crowdcomms team to create a superb virtual Congress platform which we were very pleased with and received excellent feedback from attendees.

Despite the significant challenges faced, the IIRRT and the ISRRT Board were absolutely delighted to virtually welcome over 500 delegates to the Congress over the three days.

On Friday 20th, parallel pre-Congress workshops on Justification and Forensic Imaging kicked the 3 day programme off. Both workshops received incredibly positive feedback from attendees and set a very high standard for the Congress and we would like to thank Prof Louise Rainford and Ms. Edel Doyle for conceiving, coordinating and chairing these excellent workshops.

On the Friday afternoon, the official opening ceremony took place with opening remarks from Michele Monahan, Chair Local Organising Committee and Dean Harper, President of the IIRRT. We were pleased to introduce both the Minister for Health in Ireland and the Lord Mayor of Dublin to give welcoming addresses and to invite ISRRT President Donna Newman to give opening remarks and officially open the Congress with the traditional lighting of the globe ceremony. Entertainment was provided by interludes of traditional Irish dance and music.

ISRRT President, Donna Newman then introduced Professor Patrick Brennan of the University of Sydney to deliver the Hutchinson Lecture. Professor Brennan is recognised as a leader in clinical translation of medical imaging optimisation and radiological perception. Professor Brennan gave an amazing insight into his work and research which left us all looking for more and happily reminded the audience that his roots are in Ireland. This completed day one of the Congress programme and it while it was a fantastic platform and reached a wide audience, we all missed the social networking and wished that we could have met you all in person to celebrate.

Day 2, Saturday 21st started with a brief opening by IIRRT and ISRRT Presidents. We then had two plenary sessions of invited speakers one on ‘AI in Radiology: Challenges and opportunities’ and the second one on ‘Quality Imaging standards and Patient experience’ which was organised by our esteemed colleagues in the Northern Ireland branch of the Society of Radiographers. This was then followed by a six track scientific sessions which saw the start of a number of scientific sessions across the Congress. The topics for the first scientific session were:

- Radiation Protection
- Artificial Intelligence
- Computed Tomography
- Education
- General
- Radiation Therapy

After break, a further 2 plenary sessions followed one after the other. The first posed the questions is ‘Obesity the next Pandemic?’ and what we as imaging professionals need to consider. This was then followed by the eagerly anticipated ‘The Big Debate’ which investigated both sides to the highly topical ‘shielding in radiography – an outdated practice?’ . This event was the radiography equivalent to the clash of the Titans and attendees were treated to an hour of excellent and informative discussion by Dr. Shane Foley of UCD and Professor Mark McEntee of UCC. This was a live part of the congress that took part in the CCD itself and was live streamed to over 300 delegates worldwide. The session was interactive with the audience participating in live polls and participating in a live Q&A which were all managed under the watchful eye of the chair, Professor Louise Rainford of UCD.

After lunch break, the second scientific session took place with an additional six tracks in:

- Radiation Protection
- Computed Tomography
- Education
- General
- Radiation Therapy
- Joint ISRRT and EFRS session on ‘Safety Culture and Patient Centred Health Care’

This was followed by a Plenary Session on ‘Covid on the frontline Reflections’ which saw a series of reflections from Radiographers who had worked on the frontline during the first wave of COVID-19 from differing countries including India, Nigeria, Thailand, Ireland, and Italy.
The final scientific session of the day then followed which closed out the day and which again saw a collection of excellent talks in various topics in an additional six tracks:

- General
- Computed Tomography
- Education
- General
- Radiation Therapy
- General

Day 3 on Sunday August 22 commenced with a five track scientific session on the following topics:

- General
- Research and Role Development
- Education
- Ultrasound
- Radiation Therapy

The Plenary session that followed was truly compelling talk delivered by Margaret Murphy who is a National and International patient advocate who spoke about ‘Patient experience as a catalyst for change’. Margaret spoke about the experience of her son Kevin’s journey through the healthcare system that ultimately resulted in his death through a series of medical errors. Margaret’s talk touched all of us and we hope that her wish that through Kevin’s story we can all learn something and that it will cause us all to reflect and inspire us to do better for our patients as Healthcare Professionals.

An excellent focus session on ‘Planning Management strategies in Radiography’ followed and then the final five track scientific session on education, ultrasound, role development, MRI and radiation protection led us nicely into the closing ceremony.

The closing ceremony took place with the traditional handover of the ISRRT Flag from the current host nation Ireland to the next host nation Thailand for the 22nd ISRRT world Congress which is scheduled to take place in Bangkok from December 15th - 17th 2022. A wonderful promotional video by the Thai national society gave us a flavour of what to expect next year and with that the 21st ISRRT World Congress was officially closed by ISRRT President Donna Newman who made some closing remarks and switched off the globe.

The Congress was truly a great success and showcased the amazing talent, research, academic and clinical skills of Radiographers, Radiological Technologists and Radiation Therapists have throughout the world. We are proud was the theme of the Congress and indeed we should be the presentations and posters that were of such a remarkable standard that we can proudly say that we are at the forefront of healthcare diagnosis and treatment and we as Radiological Technologists and Radiation Therapists should lead our professions to advance our roles and scopes of practice into new areas that we have demonstrated we are truly capable of.

The Congress was a celebration of our professions and a coming together albeit in a virtual forum. We certainly missed the personal networking and really hope that will be possible again soon. Meeting with colleagues from around the world is so important, however we demonstrated what can be achieved using virtual platforms and it also allowed us to see that people who may not be able to travel to an event can still be a full participant in a virtual environment.

The IIRRT would like to express huge thanks to the ISRRT Board and in particular President Donna Newman for their unwavering support for the first fully virtual congress of the ISRRT. The IIRRT local organising committee, led by local organising Chair Michele Monahan, IIRRT President Dean Harper and IIRRT Office Manager Ann Marie Lynam, all worked tirelessly and through an uncertain period to provide a congress to make us all proud. We cant express enough how grateful we are to everyone who contributed in some way to make the Congress a great success including our local organising committee members, sponsors, speakers, poster presenters, Crowdcomms, Advantage PCO, ISRRT Board and Council members and most of all to the delegates for supporting this great event.
This year the ISRRT made a historic first hosting the first ever on-line ISRRT World Congress Council meeting. This was a very exciting time for the ISRRT having the voice of over 40 countries represented virtually by their respective Council Members and 35 observers.

As the World stood in turbulence with the COVID-19 Pandemic in the spring of 2021, it became more and more apparent it would be difficult to have a council meeting in person as is the tradition at all ISRRT World Congresses. The mid-summer month brought news from the Irish Government stating that all in person meetings for the month of August were to be cancelled due to COVID-19 pandemic surging in numbers within their country.

Given the potential that the in-person council meeting might be cancelled the ISRRT Board of Management proactively sent out a survey and consulted with the Council via an electronic questionnaire asking if it would be favorable to hold the council meeting on-line if it was not possible to hold an in-person meeting. Receiving a favorable response from our council members the ISRRT Board met on-line and voted to move the ISRRT Council meeting to an on-line meeting for the first time in ISRRT history.

The Guidelines for this meeting were handled slightly differently than other Council meetings. First the quorum was established electronically as people registered and logged on to the meeting by the CEO Support Services and the Platform manager. According to the ISRRT Statutes 10.1.15 “No meeting of the council shall proceed to business unless twenty-five council members are present in person at the time of the meeting is called to order”. At the virtual council meeting the ISRRT considered the person present at the time of login with their email and registration as supporting documentation for the quorum. This allowed the session to meet the ISRRT Statutes allowing for business to continue.

The quorum was established electronically as people registered and logged on to the meeting by the CEO Support Services and the Platform manager. According to the ISRRT Statutes 10.1.15 “No meeting of the council shall proceed to business unless twenty-five council members are present in person at the time of the meeting is called to order”. At the virtual council meeting the ISRRT considered the person present at the time of login with their email and registration as supporting documentation for the quorum. This allowed the session to meet the ISRRT Statutes allowing for business to continue.

After the quorum was established, ISRRT President Donna Newman presented one by one each of the nine Societies who had applied according to the rules and had fulfilled properly their ISRRT membership application. In order to save time a document with appropriate supporting documentation was sent to the council members. It was noted before the vote that all candidate Societies were awarded previously their Provisional membership status by the ISRRT Board of Management which is part of the statue rule. It was such an exciting moment for the ISRRT to have all nine of the proposed member societies approved by the council to full ISRRT Membership status. The new ISRRT member societies include:

a. Palestinian Association of Medical Radiation Technologists- Palestine
b. Society of Indian Radiographers- India
c. Jordanian Society of Radiographers- Jordan
d. Emirates Medical Association-Radiographers Society of Emirates- United Arab Emirates

e. Collegio de therapeutas de Costa Rika (Therapist Guild of Costa Rica)-Costa Rica

f. Association of Radiological Technologists of the Republic of SRPSKA -Republic of SRPSKA Bosnia Herzegovina

g. Egyptian Society of Radiographic Sciences-ESSR –Egypt

h. Indian Society Radiologic Technologists- India

i. Medical Imaging and Radiotherapy Portuguese Association- Portugal

Although the tradition of allowing these new ISRRT members societies the chance to introduce their society to the council they had already introduced themselves during the log on time when the quorum was waiting to be established. ISRRT President discussed the opportunity to allow for the introduction during an ISRRT Facebook live program instead. The ISRRT President stated that the ISRRT BOM and the ISRRT is so lucky to have these new member societies participating in our International Organization.

The On-line council meeting also brough great success with the passing of Six new ISRRT position statements. ISRRT President Donna Newman outlined the Position Statements content as they had already been distributed well in advance and had been discussed /commented by the respective society’s council members. All five of the following ISRRT Position Statements were approved using the electronic voting procedure. One important outcome from this meeting was the response from our council members stating that they found the presentation and voting system fair and easy to use. It was great to have all five positions statement passed allowing member countries to bring these back to their counties to help elevate patient healthcare within their country.

The following position statement were passed by the ISRRT council:

- **ISRRT Position Statement:** The implementation and use of Diagnostic Reference Levels (DRLs) in Medical Imaging by Radiographers/Radiological Technologists

- **ISRRT Position Statement:** The implementation and use of Clinical Audit in Medical Imaging by Radiographers/Radiological Technologists

- **ISRRT Position Statement:** Radiographers/Radiological Technologists Role in Communication and Education of Patient, Health Care Team Professionals and the Public

- **ISRRT Position Statement:** The Clinical Patient Care Assessment Skills of Therapeutic Radiographers

- **ISRRT Position Statement:** Patient contact shielding, including gonad shielding, on patients for diagnostic radiography procedures and Computed Tomography

- **ISRRT Position Statement of the Radiographer/Radiological Technologists Role in Patient Care and Patient Safety

Another historical moment happened at this ISRRT council meeting as the ISRRT council approved a new membership category called the ‘International Academic Network membership’.

The ISRRT Board of Management proposes a new category of membership called the ‘ISRRT - International Academic Network (IAN) membership’. This membership category will have the same rights and benefits as associate members as well as the additional benefits that were described in the document presented to the council for consideration. The IAN aims are to be the main resource for ISRRT and the professional societies with regards to radiography education and research internationally. The Objectives include:

- To facilitate the ISRRT’s international research and publication of results.

- To facilitate the ISRRT’s surveys related to radiation safety, patient safety, radiation protection, and professional practice.

- To contribute to the development of educational materials that promote patient centered care, patient safety and radiation protection.

- To support the next generation of imaging and therapy professionals

- To provide a communication platform for students in radiography/therapy and educators to mentor, network and
develop scientific publications and projects.

- To facilitate the development of continuing professional development for ISRRT to help elevate health care globally in particular low- and middle-income countries.

Next, as your ISRRT President having been involved with the ISRRT for over 20 years this is probably the most exciting piece of news that I am sharing with you. The ISRRT Board of Management proposed a definition for the ISRRT Radiographer/Radiological Technologist profession in a document that was presented to the ISRRT council. Some discussion was made on that item with a few societies asking a review at a later date on the description of the therapeutic radiographer definition.

An agreement was made on the current proposed definition to serve as a basis document to facilitate the daily ISRRT Communication with various stakeholders. A more elaborated definition can be discussed in future if the circumstances demand it. The council passed the definition. This discussion has happened many times over the last 20 years and I was so excited to finally have a starting point with a definition that could be used when representing the ISRRT at stakeholder meeting.

Finally, the ISRRT Board of Management reported back to the council members the results of the Funding model review and the adjustment of the tiers that were discussed at the 2018 Council meeting. The funding model described below will be implemented on January 1, 2022 for ISRRT membership Society fees. There was no vote needed as the ISRRT Council had already voted on the motion at the 2018 council meeting.

The Council, who are the governing body of the ISRRT, discussed and passed the following motion at the 2018 Council meeting in Trinidad and Tobago:

"To approve a tiered-based funding model linked to annual revenues(income) of each member society, subject to final adjustments by the Board of Directors. The transition to the new model to be completed no later than December 31, 2021."

The ISRRT Board of Management would like to thank the ISRRT council for their participation in this historic on-line council meeting and acknowledges that with your participating history was made.

With that said the ISRRT President made the announcement of the next Council Meeting and the 22nd World Congress will be held in Bangkok, Thailand on December 14-16, 2022.

Important dates for that meeting and ISRRT the World Congress, as the President announced, are:

i. Regional meetings and open forum December 11.
ii. Council meeting December 12 and 13 (with Elections)
iii. Workshops morning /Afternoon Opening Ceremony December 14.
iv. Gala Dinner December 15
v. Closing Ceremony December 16

President officially announced the winning Society bid for the 23rd ISRRT World Congress which was the Radiograf Radet (Society of Denmark Radiographers).
The 21st International Society of Radiographers and Radiological Technologists World Congress made history with its first virtual ISRRT World Congress which was held Aug 20-22, 2021. As ISRRT President I never expected this to be part of my legacy. I couldn’t be happier with the outcome of our first historic on-line ISRRT World Congress.

The Pandemic has changed and interrupted many in person professional organizations meeting over the last two years. The ISRRT was no exception. Nothing really replaces an in-person meeting as these allow for opportunities to network, share best practice, debate professional issues, draw consensus, and catch up with professional friendships. The ISRRT like most other societies have had to adapt and move to on-line education and business meetings this past year in order to carry on business and progress the profession. The silver lining for those who had registered for the Virtual ISRRT World Congress and participated live was the on-line platform that allowed registrants to see the fabulous speakers they had missed during the concurrent session with an on-Demand feature after the Congress closed.

The ISRRT Board of Management and the Irish Conference committee were very committed to ensuring the ISRRT Congress traditions, that have been with us since the very beginning, were continued with this first virtual on-line Congress which the platform facilitated.

The opening ceremony’s traditional lighting of the ISRRT Globe by the ISRRT president Donna Newman marked the opening of the On-line world congress. For those who haven’t attended an ISRRT world congress the official illumination of the Globe by the ISRRT President became a symbol of an ISRRT Congress over the many years of ISRRT World congresses. This tradition of the ISRRT globe stared in 1965 when the British Institute of Radiology present the ISRRT with a globe as a symbol of good will. This gift began a memorable tradition that the ISRRT still performs at every world congress during the opening ceremony of each world congress.

The opening ceremony also continued with the tradition of the host society committee chairman Michele Monahan and IIRRT president Dean Harper giving greetings and welcoming participants to the on-line meeting.

As the ISRRT president, I also welcomed our members and gave the traditional presidential speech highlighting the work of ISRRT over the last two years. I announced my three presidential key messages for our organization which were to influence change, impact change and create change. Also, I highlighted how the ISRRT had incorporated these messages into their operational opportunities with its partners over the last two years. The ISRRT played a pivotal role in representing the radiography profession on the world stage ensuring these three key messages were at the forefront of our strategic agenda. The speech and slides had some important messages including:

The ISRRT affected and created change for patient care and the entire profession by developing a response document for the COVID-19 pandemic. The ISRRT influenced change and impacted change during collaboration with both the IAEA and the WHO on COVID-19 guideline development. I am happy to report the radiographer’s voice was heard and the ISRRT safety guideline for the radiography profession was incorporated into these documents.

The COVID-19 Pandemic presented the opportunity to influence change during the ISRRT’s Facebook live sessions. This new strategy grew and saw great success over the 2021 year promoting collaboration and bridging ISRRT member societies to share best practices and create and influence changes in healthcare during the 2021 sessions. These sessions reached over 465,246 members around the world.

The ISRRT e-learning platform created an opportunity for our member society experts to also share their best practices and share targeted specific medical imaging techniques undertaken by radiographers worldwide. This new platform exceeded the ISRRT Board of Management’s (BOM) expectation reaching over 114 countries with over 144,000 users on our ISRRT COVID-19 educational materials.

The ISRRT also partnered with the WHO to create a grassroots media campaign with efforts toward sustained social change.
to make our next generation of radiographers a smoke free generation. The ISRRT reached over 83,634 radiographers and radiographer students’ people in the first year and improved over 200 percent participation in supporting the key messages of influencing and affecting change in the world.

Finally, the ISRRT participated in the WHO ‘Call for action’ campaign to address the 18 million health workers shortfall suggesting the introduction and promoting a four-tier radiographer profession which will help stimulate and create a health sector jobs with the right skill set, in the right numbers in countries all over the world. This new campaign will invest in our profession and expand and help transform the global health and social workforce helping to counter the 18 million shortage projected to affect healthcare by 2030.

The ISRRT has been involved in so many important international projects and it was great to share just a few of our achievements during the opening session of the ISRRT World Congress.

On behalf of the ISRRT Board of Management a huge ‘thank you’ goes to IIRRT President Dean Harper, IIRRT Chair of the Organizing committee Michele Monahan, Scientific Chairman, Dr. Shane Foley and IIRRT Office specialist, Ann Marie Lyman for the amazing World Congress they had put together. Your committee’s ability to adapt with all the continuous changes throughout the pandemic was extraordinary. Success of a committee leadership only happens with great volunteer so a huge ‘thank you’ also goes out to the whole congress committee for their efforts in organizing this event. The traditional Congress committee picture couldn’t be taken with the social distancing mandated in Ireland so a non-tradition slide with all the individuals was presented at the opening ceremonies. I also want to thank the ISRRT board subcommittee that met regularly with the local organizing committee to help move the world congress forward to an on-line platform. Your dedication during the many meetings over the last year is much appreciated.

The National society ceremony also took place with the ISRRT CEO support Services Dimitris Katsifarakis announcing each ISRRT member society and their representative for the World Congress. Instead of the traditional flag or sign of the country a slide with a picture of the representative and their societies’ logo was displayed as Dimitris announced their name. It was a huge moment for our 9 new societies that had recently just been voted to join the ISRRT at the Council meeting that had taken place earlier that month. Any council member or member society president that has participated in this tradition agrees that it is the highlight of their world congress. I myself participated when I was council member for the United States and can attest to this as well.

The congress program had many highlights with speakers including the opening ceremonies traditional Keynote Hutchinson lecture presented by Professor Patrick Brennen an important Irish born radiographer who now lives in Australia who has made many important contributions for the Irish society and the radiography profession.

The Hutchinson lecture was created to honor Ernest Raymond Hutchinson who was a founding pioneer of the ISRRT and the first Secretary General and Treasurer of the ISRRT. Mr. Hutchinson served these dual roles for 14 years and helped establish many of the traditions that we still use today. The ISRRT established this official scientific lecture which is presented by an individual who themselves serves in the profession as a recognised prominent leader. The lecture is traditional presented at each world congress at the opening ceremony as the keynote speaker.

The congress sessions were divided into a number of specialty sessions including Radiography, Radiation Protection, Artificial Intelligence, Education and Radiation Therapy. The plenary sessions had much to choose from. Saturday had three plenary sessions including a session on obesity: The next pandemic and what the imaging professional needs to consider, a session on COVID-19 focusing on the Frontliners: Reflections form around the world and the Great Debate: Shielding in Radiography and outdated practice. Sunday included a session on the Patient experiences as catalyst for change and a session focusing on the Management strategies in radiography. There were so many great sessions to choose from it was hard for me as president to decide which session I would watch live and which one I would go back to the on-demand session platform.

The ISRRT World Congress closing ceremony continued with the important tradition as I of the handing over of the ISRRT Flag to the next host country and the turning off of the ISRRT World Globe to mark the end of the Congress. The on-line meeting posed a problem with the traditional handing over the ISRRT flag to the next Congress conveyor chairman. A slight modification was made to allow for the tradition to continue at the closing ceremony. Michelle Monahan Chairman of the Irish local organizing committee handed the ISRRT flag to IIRRT President Dean Harper who acted as the stand in representative for the Thailand society.

The tradition of announcing and promoting the host society of the next world congress happened during final stages of the Congress. The next world congress, Bangkok, Thailand, December 2022 looks to be a wonderful venue and a great place to visit and hopefully in person.

As the, ISRRT president, I thanked the educational expert speakers and the Congress committee for fabulous 21st World Congress as the educational sessions were amazing and she also thanked the congress committee’s dedication for the flawless success of the on-line meeting which was outstanding.

As the last act of the World Congress, I as ISRRT president, as I turned off the world globe and with the sounding of the official ISRRT gavel, declared the 21st ISRRT World Congress closed.
Happy World Radiography Day from the ISRRT Board of Management with the knowledge that the ISRRT celebrates and recognizes your knowledge, skills, expertise and the care that you take every day in your efforts to support your patients as frontline healthcare professionals.

During the COVID pandemic radiographer professionals, have made a difference because you have a commitment to ensure the principles of radiation protection, justification, optimization and patient safety are a part of our everyday work while caring for our patients. This year the ISRRT is focused on honoring and celebrating our member societies and the radiographer professionals in your country. We know you have played a vital role in healthcare during this pandemic. Your work matters and we thank you for the care you give to patients every day.

World Radiography Day was filled with many celebrations all over the world this November 8, 2021. The celebrations could be seen both with traditional in-person celebrations as well as many on-line social media celebrations due to the COVID-19 pandemic that still affects most of the countries around the world. ISRRT chose the theme, this year, “The Role of the Radiographer in a Pandemic” was at the center of many of our members celebrations.

The ISRRT also celebrated by publishing the third special edition of World Radiography Day book “The Role of the Radiographer in a Pandemic” with members and health professional experts around the world contributing as authors. The ISRRT released and distributed this edition to all of our ISRRT member societies and council members on November 8 in celebration of ‘World Radiography Day’.

This issue is filled with articles highlighting the radiographers/radiological technologist role during the pandemic which celebrates radiographer professionals as heroes in our ISRRT member societies.

A new tradition was started this year with an artist being commissioned to create a special cover for our Special Edition with the ISRRT World Radiography Day poster being moved to the inside of this edition. This year’s artist was Leslie Robinson, who trained to be a radiographer in the UK in the early 1980s and then worked as a radiographer in the UK and Saudi Arabia and eventually specializing in CT and MRI. She went on to become a radiography lecturer and researcher at the University of Salford in the UK. She has presented all over the world, has published widely and achieved a Doctorate in Education. Leslie’s piece on the cover of this edition depicts radiography in the COVID-19 pandemic. Lungs that were previously life-giving (represented by flowers) are swiftly ravaged by COVID-19, the evidence of which is "beautifully" illustrated on a daily basis by radiographers around the world. Radiography is truly an art form in its own right.

The ISRRT also continued with the ‘ISRRT 2021 World Radiography Day Facebook Live Celebration’ with the topic, “The Role of the Radiographer in a Pandemic”. This is the second time we hosted an online celebration webinar to celebrate World Radiography Day.

It has been almost two years since the outbreak of Corona virus with radiographers worldwide have been faced with this challenge. It is important that we, as a frontline professionals promote the important contributions we have made during the pandemic. The ISRRT was delighted to have speaker contributions from our member societies around the world including Samar Elfara, ISRRT Council member from the United Arab Emirates, Mohamed Abdalghani, ISRRT council member from Palestine, Melissa Pergola, Executive Vice President of Governance and Public Policy from ASRT, Rajeev Krishnan, National Coordinator Indian College of Radiological Technology (ICRT) from India, Ephraim Tembo, from Queens Elizabeth Central Hospital Malawi Africa. Both myself Donna Newman, ISRRT President and Dimitris Katsifarakis, ISRRT CEO served as guest panelist. Napapong Pongnapang, ISRRT Vice President Asia/Australasia again served as our host for the program and Yudthaphon Vichianin, ISRRT Director of Education served as technical director and editor.

Our speakers shared their experiences in their respective countries relating to lessons learned in the last two years from the pandemic addressing issues that have arose in relation to professional practice, recognition of radiographers as frontline healthcare worker in their country during the pandemic and best practices for education and training in response to the pandemic. This new tradition has proven to be to a great way to share best practices, new technology and practices and professional issues around the world. This year’s episode has reached over 68,000 ISRRT members who tuned in to watch the ISRRT Facebook live 2021 celebration of World Radiography Day’ Anyone still interested in viewing the Facebook live session you can find this episode on our ISRRT Facebook page or on the ISRRT website.

As the ISRRT president, I celebrated with my staff at my hospital. We are part of the professions’ frontline Healthcare team caring for our patients.

How did each of you celebrate? From our sample of pictures from all over the world radiographers took time to celebrate and promote our profession by using the ISRRT World Radiography Day poster.

The ISRRT continues to mark the anniversary of the discovery of x-rays by Wilhelm Roentgen in 1895 with our World Radiography Day celebration programme. It is good to reflect that by celebrating on this day radiographers worldwide are helping to create public awareness about diagnostic imaging and radiation therapy and promoting the radiographers’ vital role as part of the healthcare team.

As members of the ISRRT Global organization we are also committed to our mission to improve the delivery of healthcare to people around the world by promoting quality patient care, education and research. As members we embrace our core values: Promoting professionalism and integrity and bringing excellence and compassion in the delivery of medical imaging and radiation therapy for every patient.

Each of us has had an opportunity to celebrate collectively as to what we do for patients through our vital role we have played as radiographers during this COVID-19 Pandemic on November 8 this year.
WORLD RADIOGRAPHY DAY: THAILAND

NOVEMBER 8, 2021
This year during the week of World Radiography Day (WRD 2021) on November 8, Faculty of Radiological Technology at Rangsit University [www.rsu.ac.th/home] organized an important online conference to celebrate the 2021 WRD with radiographers/radiological technologists as well as students in the RT program from various universities throughout Thailand.

I was invited to be on the committee for an online student research presentation in the event. This year more than 200 participants joined the WRD 2021 celebration. The theme of the event was “World Radiography Day: The Role of Radiographer in a Pandemic”.

A number of student senior project presentations were presented in the afternoon session of this meeting.

A Facebook live on the ISRRT 2021 World Radiography Day webinar in the topic of “The Role of the radiographer in a pandemic” was organized on the November 8, 2021 at 7am US Central time. Honored speakers include Samar Elfara from UAE, Mohamed Abdalghani from Palestine, Melissa Pergola from USA, Rajeev Krishnan from India, and Ephraim Tembo from Malawi. Guest Panelists were Donna Newman, ISRRT President and Dimitris Katsifarakis, ISRRT CEO. The host was Napapong Pongnapang, ISRRT Vice President of Asia/Australasia. The live streaming was perform and support by Yudthaphon Vichianin, ISRRT Director of Education.

Furthermore, an online social media campaign with the WRD 2021 ISRRT poster as international activities was initiate via the FB platform. Large number of radiographers/radiological technologists around the world joined this fun activity posting their selfie images together with the ISRRT WRD 2021 poster.

A thank you video was developed and designed by Yudthaphon Vichianin, Director of Education to be posted on the ISRRT Facebook page. The video was around 9 minutes in length. Approximately 2,041 people have reached and 318 engaged in this video at this link https://fb.watch/9nl4UPzbET/.

Yudthaphon Vichianin
ISRRT Director of Education
WORLD RADIOGRAPHY DAY: MADAGASCAR

NOVEMBER 8, 2021

Third year radiographer students at the institute IFIRP.
Happy anniversary to all of us professional in medical imaging!!!

Madagascar is a big island in the Indian Ocean and have almost 350 radiographers working in the public sector all around the country.

This year me, my colleagues, and all our students, at the institute IFIRP Antananarivo, Madagascar, focus with radiographers all around the globe on the theme ‘the role of radiographers in a pandemic’ to celebrate the ‘World radiography day’ this 08th November 2021.

We have scheduled our lecture for today around “Radioprotection during COVID-19 times.” It was followed by debate between lecturer and student. Today it is with the radioprotectionist lecturer that they had this debate: All acknowledge that COVID-19 was at the same time a frightening and good experience for them because it improved their skills on caring to the patients in emergency situation but it was also a moment that we realized that we have to fill the gap on protection’s measures during this time of pandemic.

We face double challenges on managing the number of the patients we care for and dealing with the protection both to the professional and the patients against the X-Ray radiation and the COVID-19 itself.

At the training institute, we are so proud to be part of it; Transmit this love and ownership to our future professional on the field of X-Ray imaging, and we feel also committed to our mission to improve the delivery of healthcare to malagasy people by promoting quality patient care, especially in education and research.

For those who work at the hospital, they work so hard and play a vital role in health care during this pandemic. Their job is neither easy nor safe but you embrace our core values on doing it. Promoting Professionalism and Integrity, bringing excellence and compassion in the delivery of medical imaging and radiation therapy for the patient are becoming our passion.
WORLD RADIOGRAPHY DAY: INDONESIA

NOVEMBER 8, 2021
Celebration of World Radiography Day November 8, 2021 in Indonesia is done with many events, some of them is sharing cheers and happiness with patients and all staff in the hospitals giving packages of healthy goods.

Indonesian Society of Radiographers (PARI) celebrating World Radiography Day. The Role of the Radiographer in a Pandemic together with ISRRT and PARI.
WORLD RADIOGRAPHY DAY: OMAN

NOVEMBER 8, 2021
Radiology is playing a very important role in medicine. It is considered to be the eye of physicians. World Radiography Day is an annual event promoting the role of medical imaging in modern healthcare. It is celebrated on November 8 each year all over the world since 2012. In Oman we celebrate this special day in different ways to show appreciation to those silent hero’s, unlike the time before the pandemic this year the Royal Hospital (Muscat) conducted a simple celebration to educate the public and health care workers about CT scan, MRI, mammography, plain X-rays, ultrasound, intervention procedures and fluoroscopy. We use to have bigger celebrations with more people around in all different environments such as public gardens, big events lobbies and shopping malls. This way makes the public to understand more about the concept of radiology and to remove the unnecessary fears that some people may have. There was also corner for radiation protection methods and tools. Some give away gifts were distributed among the public and children. It was a great honor to attend and be part of this great event. Several others hospital and health organization in Oman had celebrated the World Radiography Day.

Harith Alamri
Superintendent radiographer
Royal Hospital, Muscat
WORLD RADIOGRAPHY DAY: LEBANON
NOVEMBER 8, 2021
Radiology saves lives!

On the occasion of the World Radiography Day, the medical imaging department of the faculty of public health at Sagesse University organized a colloquium to mark the importance of this day which had for motto «Interventional radiology - Acute care for the patient».

Dr Diala El Khoury, Dean of the Faculty, stressed that it is essential to recognize the key role that medical imaging plays in the medical field, not only during the COVID-19 pandemic, but also on a daily basis in all areas of patient care. She also reiterated the importance of educating current and former students about the importance of interventional radiology.

Mr Paul Makdessi, President of the Syndicate of Medical Radiology Manipulators, recalled that it is essential to value and empower radiology technicians in their role on the front line in advanced screening and treatment.

Dr Dany Abou Chedid, MD, radiologist, reviewed the importance of imaging in the detection and treatment of pathologies, recalling how “radiology saves lives”, followed by Mr. Elie Sayah, Biomedical Engineer expert, who introduced the audience to the new revolutionary techniques of interventional radiology. Finally, Mr Jean Chahine, manipulator in medical electroradiology, and ULS alumnus detailed various protocols and techniques in electroradiology. #ISRRTWorld
WORLD RADIOGRAPHY DAY: GREECE

NOVEMBER 8, 2021
On November 8, 2021, the Panhellenic Society of Radiological Technologists (RTs) celebrated the World Radiography Day with an online meeting. This meeting had two parts. In the first one, a Greek radiologic technology student from the sector of the radiography of the western university presented online the teamwork for the article which they wrote and was published in the special edition of the ISRRT for WRD2021. In this article, four students explained how the pandemic impacts on their education, their college life and consequently their personal life.

In the second part of this meeting, three radiological technologists, who are specialists in their field, had a constructive and useful conversation about the challenges, that our profession has and will have both in international and national level, in the future. Such a challenge is the Artificial Intelligence (AI).

Our society also promoted the poster of the ISRRT WRD “The role of the radiographer in a pandemic” and the WRD 2021 ISRRT special edition.

Greek RTS and students of radiography celebrated the WRD2021 and the celebrations continued during the whole week. According to the following photos, RTs from different hospitals in Greece and students of radiography from the Western University of Athens participated to celebrate all together this special day of our profession.
65TH ANNIVERSARY OF INDONESIAN SOCIETY OF RADIOGRAPHERS (PARI) AND 9TH CPD ASIA WEBINAR

October 2021
Indonesia

| PARI President Dr Sugiyanto giving the opening remarks at the 65th Anniversary of PARI Indonesia. |
Indonesian Society of Radiographers or PARI celebrated its 65th year Anniversary on October 21, 2021, these golden years were celebrated with many events, from national board meetings and team buildings, digital scientific posters contest, tiktok dance competition, and international webinar the 9th online CPD Program for Asian Radiographers and Radiological Technologist Society. Digital posters contest and tiktok dance competition run for a whole month of October 2021, there were professional juries presented to evaluate and marked the candidate.

The international webinar to celebrate the PARI anniversary was CPD ASIA online platform for Radiographers and Radiologic Technologists. This 9th webinar hosted by PARI took the theme “Imaging of Epilepsy” held on Sunday, October 31st, 2021 via Zoom Webinar from 08.00 - 13.00 WIB (Western Indonesia Time). A Number of 1860 participants from Indonesia, Malaysia, Singapore, Philippines, Thailand, Vietnam, Myanmar, Cambodia, Taiwan, Macau, Hong Kong, Bangladesh, India, Kuwait, Nepal, Sri Lanka, Australia, Ghana eagerly attended the webinar.

Two well known speakers from Indonesia Dr. Melita Radiology Specialist Neuro Radiologist Consultant from National Brain Centre Hospital, Indonesia brought topic Imaging of Epilepsy. And the second speaker Mr. Wahyu Widhianto, Amd.Rad, S.Si is MR Clinical Application Specialist of PT Siemens Healthineers Indonesia brought topic MR Technical Aspect Imaging of Epilepsy.

Purpose of this webinar is to strengthen cooperation and friendship among Radiographers along Asian countries and regions. To promote continuous professional development and raise the level of professional radiographers in Asian countries and regions. To share academic training resources and improve the quality of continuing professional development of Radiographers and celebrating the 65th anniversary of PARI.

The webinar began with chairman committee report delivered by Mr. Sigit Wijokongko, officially opened by President Indonesian Society of Radiographers, Dr H. Sugiyanto, S.Pd, M.App Sc (MRI), a joint prayer led by Mr. Saifudin. The 65th anniversary of PARI with this year’s theme PARI Synergy for Caring then started.

Series of congratulatory anniversary video played, firstly came from Mr Budi Gunadi Sadikin Minister of Health of the Republic of Indonesia, Ms Donna Newman President of ISRRT, Mr Dimitris Katsifarakis CEO of ISRRT, Dr Napapong Pongnapang Regional Director ISRRT of ASIA Australia, Ms Peachy Luna as Philippines Association of Radiology Technologist, Mr Thai Van Loc as President of Vietnam Association of Radiological Technologist, Mr Selva Kumar President of India Society of Radiological Technologist, Mr Fernando Kok as President of Macao Radiologic Technologist Association, Mr Chun-Yuan Tu President of Taiwan Association of Medical Radiation Technologist, Mr Nelson Wan President of Hongkong Radiographer Association, Denise Choong President of Singapore Society of Radiographers (SSR), Lt. Gen. Dr Terawan, President of Indonesian Society of Clinical Radiology Doctor Specialists, Dr H Muhammad Budi Hidayat-secretary of Indonesian health professionals council, Dr dr Trihono from Indonesia Health Personels Commitee Jefry Ardiyanto from Association of Indonesian Radiography Educational Institutions, Dr Harif Fadhillah, chairman of Indonesian National Nurses Association, Indonesian Alliance of Medical Physicists, Association of Indonesian Health Laboratory Technologists, Indonesian Association of Dental and Oral Therapists, PARI central board, and regional branch.
RSNA 2021
HELD IN PERSON AND VIRTUALLY, ISRRT BOARD OF MANAGEMENT PARTICIPATES IN PERSON

November 28 - December 2, 2021
Chicago, USA
REPORT BY DONNA NEWMAN, ISRRT PRESIDENT AND HAKON HJEMY, ISRRT VICE PRESIDENT EUROPE /AFRICA
Attendance was reduced considerably this year at RSNA which has been the trend worldwide with Radiology and Radiography professional educational meetings since the pandemic started. This year RSNA was held both virtually and in person. For the ISRRT Board of Management, it was business as usual as we represented the ISRRT physically at this year’s RSNA meeting. The ISRRT board members present represented the ISRRT members’ global voice during key stakeholder’s meetings. We took the opportunity to collaborate and network with ISRRT member societies during the exhibition hall hours, participated in Educational Sessions, met with vendors about collaboration opportunities and helped host the Associated Science Consortium.

The ISRRT along with 11 other associations continue to provide the Associated Science Consortium educational lecture and seminar programme which is held at every RSNA on the Monday and Tuesday of the event. The goal of this consortium is to develop educational programs targeted to the members of the 11 associations that represent the various disciplines that function within radiology departments. The 11 associations include AEIRS, AHRA, AIA-AAH, ASRT, AVIR, CAMRT, CoR, ISRRT, RBMA, SMRT, SNMTS. This year the ISRRT partnered with the ASRT, CAMRT and the CoR to sponsor speakers for the morning session called Artificial Intelligence in the Hands of Medical Imaging and Radiation Therapy Professions Part One: The current state of AI in our Practice and Part two: Getting Ready for a future with AI.

The session was first planned for the RSNA 2020 but got delayed by one year due to the COVID-19 pandemic. This made planning the session challenging and several changes and adaptations were needed. Craig St. George from the ASRT did a great job in helping the presenters and moderators prepare for the session.

ISRRT Regional Director of The America’s Sharon Wartenbee and ASRT Susie Moseley served as the moderators for our sessions with four different speakers presenting. Each of the two-sessions had one speaker presenting virtually and the other one in person which was the trend in all meetings that I attended at the RSNA. Many International speakers spoke remotely due to the pandemic and inability to be able to travel from their country. Christina Malamateniou an educator from the UK(CoR) spoke virtually on ways to prepare students for the future with artificial Intelligence. Dr Melissa Pergola ASRT Vice Executive President of Government and Public Policy spoke also spoke for the morning session in person for the first session on The Current State of AI in our practice. Melissa covered the development of common terminology associated with artificial Intelligence and presented stakeholders opinions regarding how the implementation of AI, Machine Learning (ML) and automated features will affect clinical practice, workflows, staffing and patient care in medical imaging and radiation therapy facilities.

Caitlin Gillan, a Radiation Therapist from Canada (CAMRT), spoke virtually how AI was affecting Radiation Therapy practices and Hakon Hjemly ISRRT Vice President of Europe/Africa, the ISRRT sponsored speaker, spoke in the part two session on ‘Getting Ready for a future in AI’.

Hakon Hjemly presented Ethical aspects and Guidelines relating to AI specifically discussing that a profession is often recognized by its own set of ethical guidelines and relating to the ISRRT it would be the international ISRRT Ethical guideline. With AI now here Hakon discussed that it may be time to revisit our own guidelines as all Ethical guidelines should be regularly revised and updated according to professional development and changing demands. Hakon also presented information relating to a survey done were radiographers and radiation therapists were asked how confident they were with AI technologies in radiography. Interestingly the survey presented demonstrated that most radiographers and radiation therapists said they were not confident with AI terminology or the use of AI applications. Hakon presented that there might be a new role extension for radiographers focused on more effective patient treatment with radiographers and radiation therapists being able to work more autonomously with the proper use of AI decision support.

Important to the profession was the joint work that Hakon Hjemly and Nicholas Woznitza co-chaired on behalf of the ISRRT and EFRS which produced a joint Statement on Artificial Intelligence and the Radiographer/Radiological Technologist profession. Hakon drove home the message from the joint statement, “It is of critical importance that radiographers and radiological technologists, as medical imaging and radiotherapy experts, must play an active role in the planning, development, implantation and the use and validation of AI applications in Medical and radiation therapy. This reinforces the need for the technology to be targeted to the most pressing clinical problems. Finally stating that, “The optimal

ISRRT Board of Management and ISRRT member societies and leadership.
integration of AI into clinical imaging and radiation therapy can only be achieved through appropriate education of the current and future radiography workforce and the active engagement of radiographers and radiological technologists in AI advancement going forward.

Hakon did a great job representing the ISRRT and the Radiographer voice internationally presenting the important international point of view relating to AI. We are looking forward to the next phase of the joint project relating to AI.

All presenters drove home the message that Artificial Intelligence is here to stay, and that Radiological Technologist/Radiographers and Radiation Therapists must be prepared to participate in and lead efforts to maintain quality of AI-based devices.

International Society of Radiology (ISR) Quality and Safety Alliance Meeting, where key international stakeholder organizations get together to collaborate on quality and safety in medical imaging met virtually instead of in person at RSNA this year. Organizations were asked to bring forward two or three ideas for joint collaboration relating to Quality and Safety in Medical Imaging and Radiation Therapy. As your ISRRT President, I took the opportunity present three ideas for collaboration including the opportunity for a joint education session on our ISRRT Facebook live Partnering with ISR, IMOP and ISRRT. The ISRRT has had great success reaching more than 478,359 people all over the world. I also presented the ideas of collaboration and partnership on our E-learning platform which has also had great success with our COVID-19 E-learning resources having 157 countries logging in to use and with over 30,000 radiographers benefiting from the resources. Finally, I presented the idea to develop a collaborative campaign with a key message relating to Quality and Safety in Medical Imaging. The opportunity to partner on an e-learning project about quality and safety for radiographers around the world in the form of on-line collaboration.

Finally, the ISRRT continued its new tradition of holding a non-formal meeting with its member societies presidents and council members in attendance at the RSNA. As the ISRRT President I did a presentation on why ISRRT is of value to its member societies and updated our ISRRT member societies in attendance on the key projects that the ISRRT Board of Management had undertaken over the last year. We had a great discussion on the formation of a steering committee to oversee the development of the on the newly approved ISRRT membership category specifically for International Academic Network membership. This new membership category is for educational institutions interested in global education and research and to contribute to the development of many professional practices.

We discussed that the next world congress will be held in Bangkok Thailand in December of 2022 and that the ISRRT council meeting would be a two-day meeting because of elections taking place.

Although RSNA was a smaller meeting all colleagues that we met commented on the fact that it was finally great to be in person networking and collaborating in person again. On a personal note, as ISRRT President and on behalf of the ISRRT Board of Management I wanted to congratulate Hakon Hjemly on his first-place finish during the Tuesday RSNA 5 K Fun. This run will benefit the research and Education Foundation. He along with 396 participants that signed for this event, proceeds will support research and education in radiology through grants and awards to individual and institutions that advance radiologic research education and practice. Know that your dedication to running is truly inspiring to many of us serving on the ISRRT BOM.

| Moderator ISRRT Regional Director The America’s Sharon Wartenbee, Hakon Hjemly, Moderator Susie Mosley and Melissa Pergola. | ISRRT Board of Management with CAMRT. |
Roentgen’s Rapid Rise

REPORT BY SHARON WARTENBEE, REGIONAL DIRECTOR, THE AMERICANS

Radiologic technologists around the world know the story by heart. Wilhelm Conrad Roentgen discovered the x-ray on November 8, 1895, at his laboratory in Wurzburg, Bavaria, now Germany. What’s not so well-known is just how rapidly his discovery was adopted by physicians and others in the science community. The idea spread like wildfire.

For example, two weeks after the announcement, a German dentist took the first dental radiograph – a 25-minute exposure – by holding a rubber-wrapped photographic plate in his mouth. Within a month, surgeons reported using x-rays to create images of broken bones and locate bullets in patients’ bodies.

Also, at that time, Léopold Freund – considered the founder of medical radiology and radiotherapy – suggested the rays could be used to treat disease.

By early 1896, just months after Roentgen’s discovery, Viennese x-ray photographers created something akin to an angiogram by injecting an amputated hand with a radiopaque mixture, causing the blood vessels to appear on a radiograph. In March 1896, Glasgow Royal Infirmary had set up an x-ray department. Also that year, x-rays were used to peer inside mummies, and a radiograph of a broken femur was admitted as evidence in a negligence case against a Colorado surgeon.

The x-ray was put to a variety of innovative and novel uses immediately after Roentgen announced its discovery, and for more than 125 years we have continued to advance those applications. It’s a history of discovery and innovation that’s worth celebrating. During National Radiologic Technology Week® every November, the American Society of Radiologic Technologists recognizes the vital work of R.T.s and their important contributions to patient care. NRTW® takes place every November to honor German physicist Wilhelm Conrad Roentgen’s discovery of the x-ray on Nov. 8, 1895.

ASRT is the world’s largest radiologic science organization and represents the medical imaging and radiation therapy community through education, advocacy, research and innovation. National Radiologic Technology Week® 2021 was celebrated November 7-13.

This story is adapted from an article in ASRT Scanner.
I AM PLEASED to report that ISRRT continues to play an important and pivotal role in representing the radiography profession on the world stage. ISRRT is constantly engaged in various activities of the WHO and the IAEA helping to shape the safety culture and professional standards for all our diagnostic and therapy radiography professionals. This has been particularly true and important during the COVID-19 pandemic period.

At the time of writing ISRRT has been active in producing and circulating several helpful guidance documents, taking part in many virtual meetings and contributing to many WHO and IAEA initiatives.

This report highlights those activities and involvements.

ISRRT Position statements approved

At the last Council meeting held virtually 17th August 2021 the following position statements were approved:

a. ISRRT Position Statement: The implementation and use of Diagnostic Reference Levels (DRLs) in Medical Imaging by Radiographers/Radiological Technologists.

b. ISRRT Position Statement: The implementation and use of Clinical Audit in Medical Imaging by Radiographers/Radiological Technologists.

c. ISRRT’s Position Statement: Radiographer’s/Radiological Technologist’s Role in Communication and Education of Patient, Health Care Team Professionals and the Public.

d. ISRRT Position Statement: The Clinical Patient Care Assessment Skills of Therapeutic Radiographers.

e. ISRRT Position Statement: Patient contact shielding, including gonad shielding, on patients for diagnostic radiography procedures and Computed Tomography.

f. ISRRT’s Position Statement of the Radiographer/Radiological Technologist’s Role in Patient Care and Patient Safety.

All of these statements, which enhance the role of the radiographer and radiological technologist, with their respective information backgrounds, references and supporting information is available on the ISRRT website.

We are continuing to work on other ‘Position Statements’ and welcome ideas and suggestions for additional ones to benefit the radiography profession.

Launch of ‘ISRRT Safety Culture and General Safety Management Guide for Diagnostic Imaging and Radiation Therapy Departments’

I am delighted to share that after several months of hard work by a dedicated team of experts that we have produced a valuable guide for the radiography profession worldwide.

Safety culture is often referred to the way safety issues are approached in the clinical environment. Many authors and related literature support that safety culture encompasses the attitudes, beliefs, perceptions, and values of healthcare professionals and how these are “expressed” in practice. The guide addresses ‘safety culture’ in the context of an imaging and therapy department.

Safety in the Imaging and Radiation Therapy Departments is of paramount importance. The guide focuses all aspects of the running of a department where lack of safety may ultimately affect the patient, staff and the public and the reputation of the institution. The guide will incorporate good management practices.

Ensuring a safety environment is dependent on all those engaged in running and working in a department having a sense of purpose and fostering a safety culture environment.

Purpose and Aim

This document has been developed to help you answer the question ‘Is my department safe?’

This is undertaken, but nor exclusively, by:-

- Assessing working practices and safety measures to create a dynamic safety culture.
- Identifying areas for review on a regular and systematic basis.
- Implementing change and supporting staff.
- The provision of a safe environment and an efficient quality assurance programme.

It is aimed for the benefit of all personnel working in Imaging and Radiation Therapy Departments as each person has a responsibility to ensure the safety of themselves, patients and colleagues as well as contributing actively to promotion and maintenance of a responsive safety culture.

The document will be particularly helpful to Service Managers and Clinical leads of modalities who may be responsible for an individual clinical service i.e., Nuclear Medicine, CT, MRI, Radiation Therapy, or a small imaging department. Throughout
the guide, for the sake of brevity, we have used the term 'Service Manager'.

Driving Factors
The drivers for this guide have principally been aligned to the objectives of the WHO and the IAEA in matters of patient safety and particularly safety culture and a desire to produce a guide which reaches out to embrace all those aspects of running a diagnostic imaging and radiotherapy department. It particularly is mindful of:

The International Bonn Call-for-Action item 8 which calls for medical professionals to Strengthen radiation safety culture in health care. Additionally, the 72nd World Health Assembly (WHA72) which adopted a resolution on ‘Global Action of Patient Safety’ with the WHO Director General report detailing the Global action on Patient Safety. In particular, WHA72 R6 Resolution mentions radiation safety in paragraph (6) together with the other areas of patient care where safety challenges are faced. Subsequently the formal action plan ‘WHO Global Patient Safety Action Plan 2021-2030 was formally adopted at the WHA on the 28 May 2021 which provides a 10-year roadmap and actions to work towards its vision of a world in which no one is harmed in healthcare and every patient receives safe and respectful care, every time, everywhere.

Additionally with the launch of the IAEA’s Training material to strengthen safety culture with the publication of radiation Safety Culture: Traits talks Handbook this gave us the opportunity to address aspects of safety and safety culture in one document.

Authors
The ISRRT is grateful for the following colleagues who gave of their time and expertise to the narrative. Additionally I wish the many other people who assisted in the production of this guide which stretches to 159 pages embracing all aspects of running a safe and effective department.

I wish also to thank Maria Perez of the WHO for her Preface which is most appreciated.

Contents and Structure

<table>
<thead>
<tr>
<th>Name</th>
<th>Topic</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stewart Whitley</td>
<td>General</td>
<td>ISRRT Director of Professional Practice</td>
</tr>
<tr>
<td>Jane Cullingworth</td>
<td>MRI</td>
<td>Superintendent radiographer (MRI) Scarborough Hospital, York Teaching Hospital NHS Foundation Trust, Scarborough, Yorkshire, UK</td>
</tr>
<tr>
<td>Jan Dodoen</td>
<td>Ultrasound</td>
<td>Senior Lecturer and former Programme Leader for Advanced Medical Imaging (Radiology and Ultrasound) University of Salford, UK</td>
</tr>
<tr>
<td>Debbie Gilley</td>
<td>Radiation Protection</td>
<td>International Atomic Energy Agency</td>
</tr>
<tr>
<td>Gill Harrison</td>
<td>Ultrasound</td>
<td>Professional Officer for Ultrasound, Society and College of Radiographers, UK</td>
</tr>
<tr>
<td>Angela Meadows</td>
<td>Nuclear Medicine</td>
<td>Unit Imaging Manager, Preston PET-CT and Westmorland MRI, Alliance Medical UK</td>
</tr>
<tr>
<td>Fozy Peer</td>
<td>Nuclear Medicine</td>
<td>ISRRT - Past President</td>
</tr>
<tr>
<td>Philip Webster</td>
<td>General</td>
<td>Imaging Specialist Advisor, Alliance Medical UK</td>
</tr>
<tr>
<td>Chek Wee Tan</td>
<td>Radiation Therapy</td>
<td>ISRRT Regional Director Asia/Australasia</td>
</tr>
</tbody>
</table>

The intention of the guide is to consider all imaging modalities, including radiotherapy, and topics which impact on the safe running of a department. These are all important and the sections related to the imaging modalities and radiotherapy are comprehensive and give pointers as to what you should be considered for good safety management and control. Helpful materials are include in the Appendices.

While this is a guide it must be remembered that the management of good safety and safety culture is a health care institution’s responsibility for the assurance that patients, staff and the public are safe. Standard operating procedures (SOPs), for all these topics, should be available to support managers and staff at departmental level.

The chapter topics include:
1. Introduction
2. Statement of intent
3. Safety culture defined
4. How do we accomplish safety culture?
5. Governance considerations
6. Roles and Responsibilities in Radiation Protection
7. General Health and Safety
8. Health and Wellbeing of staff
9. Medical equipment – general aspects
10. Environmental considerations
11. Managing risks in the Department
12. Managing risks associated with Ionising Radiation
13. Control, management and administration of medicinal products and contrast enhancement agents
14. Management of risks associated with ultrasound
15. Management of risks associated with magnetic resonance imaging
16. Management of risks associated with nuclear medicine and molecular imaging
17. Management of risks associated with lasers and ablative technologies and therapeutic devices
18. Management of risks associated with radiation Therapy
19. Protection of children and vulnerable children
20. Control of hazardous substances and hazardous materials
21. Control of Infection
22. Moving and Handling
23. Buildings and facilities infrastructure with environmental considerations combined with equipment procurement and building installation projects/schemes
24. Departmental housekeeping and ergonomics
25. Financial and budgetary control
26. Data security and information governance
27. Communications
28. Acknowledgements
29. Appendices
30. Abbreviations
31. References

Each section has an ‘Introduction’ to the topic and highlights ‘Roles and Responsibilities’ of the Hospital Management Team and that of the Service Manager. Dependent on the topic sections will include information on risk, operational and competency issues, service hazards, quality assurance, equipment issues, patient care, education and training aspects and a number of helpful references and materials on the topic.

Safety Culture and Safety Culture Traits

Safety culture has recently attracted the attention of radiation protection professionals, who know that there are challenges in improving radiation safety culture and recognize that there is room for improvement. This section addresses all the issues faced by the radiography profession and was written by Debbie Gilley of the IAEA who explains that we need to know what an effective safety culture looks like and what are the visual ques that a strong radiation safety culture is exhibited. These indicators are always visualized in a strong radiation safety culture as to how organisations operate and by the behavior of staff. These ques are sometimes referred to as traits.

The safety culture traits that are addressed include:

- Individual responsibility
- Leadership responsibility
- Questioning attitude
- Decision making
- Respectful work environment
- Continuous learning
- Problem identification and resolution
- Environment for raising concerns
- Work processes
- Effective safety communication

Further information can be obtained from the IAEA website IAEA Launches Training Material to Strengthen Safety Culture in Medicine | IAEA

Please look at the ISRRT website for more information – ISRRT has already run a webinar on the topic which you can access on the website.

The Safety and Safety Culture guide is available at ISRRT Safety Culture and General Safety Guide | ISRRT. For further information or to pass on any comments please contact Stewart Whitley, Director of Professional Practice. We hope that you will find the guide useful and informative.

ISRRT Celebrates World Patient Safety Day

The ISRRT celebrated the World Patient Safety Day on the 16th September a day ahead of the actual worldwide event.

This was a great occasion with Dr María del Rosario PEREZ the key note speaker from the World Health Authority. This year the theme was ‘Safe maternal and newborn care’.

We took this opportunity to launch the ‘ISRRT Safety Culture and General Safety Management Guide for Diagnostic Imaging and Radiation Therapy Departments’ with contributor to the guide having the opportunity to address they areas of interest. Additionally Gill Harris spoke on the importance of ultrasound in
safe maternal care which was in keeping with the theme of the World Patient Safety Day.

There was an excellent panel discussion with Ellen Dyer, Rosie Hospital, Cambridge, UK joining the panel discussion to speak on ultrasound issues.

The webinar can be found on the ISRRT website. Details of the topics are:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strengthening safety culture in the medical use of radiation</td>
<td>Dr Maria del Rosario Perez, World Health Organization (WHO)</td>
</tr>
<tr>
<td>ISRRT’s contribution as an International and Professional organisation – launch of ISRRT Safety Management document</td>
<td>Stewart Whitley, ISRRT, Director of Professional Practice</td>
</tr>
<tr>
<td>How can radiographers in ultrasound help to provide safe maternity care?</td>
<td>Gill Harrison, Professional Officer for Ultrasound. Society and College of Radiographers, UK</td>
</tr>
<tr>
<td>Key patient safety features in Radiation Therapy</td>
<td>Chek Wee Tan, ISRRT Regional Director Asia/Australasia</td>
</tr>
<tr>
<td>Endearing safety culture traits</td>
<td>Angela Meadows, Head of PET-CT Clinical Services, Alliance Medical, UK</td>
</tr>
</tbody>
</table>

ICRP workshop - ‘The Future of Radiological Protection’.

I accepted an invitation from the International Commission on Radiological Protection (ICRP) to attend a 2 day Livestream workshop 19th and 20th October titled ‘The Future of Radiological Protection’.

The ICRP is an independent, international organization with more than two hundred volunteer members from approximately thirty countries on six continents, who represent the world’s leading scientists and policy makers in the field of radiological protection.

The recommendations of the ICRP are the driving force for the development of policies and procedures on medical radiation protection and organisations, such as the International Atomic Energy Agency (IAEA), will use such materials and data in the formulation of standards such as the International Basic Safety Standards (IBSS). Additionally they produce recommended information on dose limits for individuals which gets enshrined in different countries legislation on radiation protection.

This was an interesting and busy two days with a number of important and scientific topics addressed by international recognised experts from around the world. Each session had a question and answer opportunity.

The sessions included:-
- Review and Revision of the System of Radiation Protection
- Working together on the development of international guidance documents produced by the IAEA
- IRPA perspectives on the review of the System of Radiological Protection
- What should be the role of Higher Education in future of radiological protection
- Keeping ICRP recommendations fit for purpose and the need for a global North-South collaboration
- Revisiting next generation effects of ionizing radiation
- Possible improvements of methodology for calculating radiation dose detriment in the future
- Reducing uncertainties in Low Dose/Low Dose Rate Health Risks and the need to review Low-Dose Decision making
- Ethical for Radiation Protection in Medicine
- Updating ICRP recommendations

One of the sessions focused on education and training and addressed how they should keep ICRP recommendations fit for purpose. With this in mind it was suggested that they should have materials with examples that will help people in addressing topics like justification.

Overall I got the feeling that there is a lot of uncertainty with respect of the effects of low dose radiation with many different opinions and views on the topic even within the medical physics community and that new models to calculate risk are being suggested and in particular incorporating the subject of ethics into the process.

We will hear more from the ICRP on these topics in due course.

Regional Coordinators Reports

The ISRRT Regional Coordinators for Professional Practice continue to monitor and report on activities in their respective Regions. I am pleased to include a reports from Christopher Steelman, Regional Coordinator for The Americas and Elizabeth Balogun Regional Coordinator for Africa.

The Americas - Regional Report Christopher Steelman (USA)

American College of Radiology Stays Neutral on Bill Granting Medicare Coverage for Radiology Assistant Services

While other medical groups have thrown their support around the recently proposed Medicare Access to Radiology Care Act (MARCA), the American College of Radiology (ACR) is staying neutral and says it will neither support nor oppose the bill. ACR said it has heard varying opinions from members about the proposal and will neither support nor oppose it at this time. The college said it has heard “widely diverse” opinions from members...
on the bill. Many radiologists are voicing disdain for the decision and urging both ACR, along with the Society of Interventional Radiology, to come out strongly against MARCA. The college’s board of chancellors plans to hold listening sessions and gather further feedback on the rule, including surveying stakeholders. Following receipt of a report, the American College of Radiology said it will consider lifting its neutral stance and issuing an official policy. “The ACR continues to actively oppose imaging supervision or interpretation and any independent practice by nonphysician providers,” it said in a statement posted Aug. 25.

In 2018 the Centers for Medicare & Medicaid Services changed its rules so RRAs could perform certain services under the direct supervision of radiologists. Those include needle placements, biopsies and injections that accompany imaging studies. Such certified radiographers are rigorously trained and can safely perform certain assessments and functions (excluding image interpretation). However, radiology providers are unable to submit claims to Medicare for this work when performed in a hospital (where most RRA work occurs) or office setting.

By not separating radiologist assistant reimbursement policies into different payment categories by service location, the adoption of MARCA would enable radiologists to devote more focused time to reviewing and interpreting complex medical images or urgent cases, thus increasing patients’ access to care. RAs will be able to work more efficiently, and Medicare patients will receive care from qualified RAs regardless of the facility in which their procedure takes place.

The ASRT states “Without complete Medicare reimbursement for RA services paid to the radiology practices employing them, the RA profession is in peril. As a direct result of Medicare’s current policy, RAs are losing their jobs and are unable to practice to the full extent of their capabilities. Medicare patients are not receiving the full benefit of care provided by a qualified and experienced radiology professional providing patient care as part of a radiologist-led care team.”

**ASRT Will Transition to Digital Delivery of all CE Offerings**

Sal Martino, ASRT CEO and Executive Director recently announced that the American Society of Radiologic Technologists (ASRT) is changing its Continuing Education (CE) delivery method.

Since CE requirements were established in 1995, ASRT has provided CE through Directed Readings in its scientific journals. Martino shared “… the way the world shares information has evolved. Technologists have unique CE requirements depending on their certifications, American Registry of Radiologic Technologists CQR prescription, state licensure rules, and facility and regulatory CE needs. As such, delivering CE options by mail every other month is not meeting our members’ diverse CE requirements.” To address these challenges, starting on Feb. 8, 2022, all ASRT members will gain access to an online CE Library of more than 450 courses. This ASRT believes that this transition is an important step to ensure they continue its mission to advance and elevate the medical imaging and radiation therapy profession and to enhance the quality and safety of patient care.

**ARRT Updates Continuing Qualifications Requirements Algorithm**

The American Registry of Radiologic Technologists (ARRT) is the world’s largest organization offering credentials in medical imaging, interventional procedures, and radiation therapy.

As part of their continuing efforts to prepare Registered Technologists to meet changing professional standards, ARRT created the Continuing Qualifications Requirements (CQR) process. CQR helps credentialed radiologic technologists to identify gaps in their knowledge and skills that could cause them to fall behind today’s entry-level qualifications. It then helps develop a plan for refreshing radiologic technologists understanding and abilities. CQR applies to all R.R.A.s and to R.T.s who earned their credentials on or after Jan. 1, 2011. These R.T.s must complete ARRT’s CQR every 10 years. After studying CQR results from 2018 to 2020, they have updated the algorithm that determines continuing education (CE) prescriptions. CQR consists of three stages: the Professional Profile, the Structured Self-Assessment (SSA), and prescribed CE activities, if needed. When an SSA score reveals areas for learning opportunities, an algorithm translates the numerical score into a CE prescription for each of a discipline’s content categories. Although the scores on each SSA will remain the same, the ARRT determined that CQR will better meet its stated purpose if they increase the sensitivity of CE assignments.

**Africa - Regional Report Elizabeth Balogun**

A worldwide pandemic was declared by the WHO due to the COVID-19 break out around the world with its attendant morbidity in the early wake of the year 2020 and ever since then we have adapted to the New Normal. However, its effect on the African Nations has been mild and as at the time of this report, all African nations have opened up and are back to in person activities while observing the covid-19 protocols of hand washing and face covering for those yet to be vaccinated.

This report reflects current activities in three African countries who submitted their reports.

**KENYA**

RASCO (Radiographers Scientific Conference) a bi-annual conference organised by the Society of Radiography Kenya, had its 2021 edition held in Pride Inn Flamingo beach, resort and spa Mombasa Kenya from 21st to 24th October, 2021.

The theme of this year’s RASCO conference was ‘Universal Health Coverage: Radiography and Imaging in the COVID-19 era’.

Various sub-themes such as education and research in Radiography and Imaging, Technology, Innovation and Inventions, health care management and policy, QA/QC in radiography and Imaging etc. We had a panel of discussions with our delegates both seated on site and those who registered attendance online and discussed our unique challenges during the pandemic period in our different stations and countries.

We had 150 delegates on site and 20 delegates who joined us...
online as this was a hybrid conference.

We had online presenters from USA (Assistant Professor Christopher Steelman), Nigeria (Dr Joseph Olama, Dr Flavious Nkubli and Mr Geoffrey Luntsi) on site we had international delegates from Tanzania and Rwanda. Report by Jevas Kenyaya (President SORK)

NIGERIA

Nigeria had series of onsite and online activities during the period of this report, of interest is the Webinar organised by the Lagos state Chapter of the Association of Radiographers of Nigeria during the Breast Cancer Awareness Month usually tagged the ‘PINK’ month but not without the shades of ‘BLUE’ as men do have breast cancer too.

The Webinar was held on the 23rd of October, 2021 with its focus on Mammography and its benefits in breast cancer screening especially from the perspective of innovations in the developed counties. The guest speaker was Tolu Alonge, a Nigerian mammographer working with the Royal Marsden, an NHS foundation Trust. This was a giving back to the society for our guest speaker. There were 40 participants in attendance across the country of note is the Presence of the President of the Association of Radiographers of Nigeria, Dr. Joseph Olama, the Convener, Mrs Moji Animashaun, a retired radiation therapist who now runs an NGO and others.

The participants had robust discussion on various innovations which were:

1. Tomosynthesis Mammography-3D, Breast Tomosynthesis Improves Visibility by reducing Tissue Superimposition.
2. Contrast Enhanced Spectral Mammography (CESM) Contrast has been shown to accumulate in lesions that are metabolically active (i.e. malignancies), due to increased vascularity.
3. Automated Breast Ultrasound, an imaging technology for automatic breast scanning through ultrasound.

4. Future Developments – Maria, MARIA does not need to compress the tissue as part of the imaging process so is painless. This is sure the future every woman that has undergone mammography is looking forward to.

Conclusion

- Breast imaging often involves a multi-modality approach
- Mammography and Ultrasound are effective first-line imaging techniques
- Research suggests CESM may become a viable alternative to MRI
- MRI and PET/CT are best for assessing multi-focality and metastatic disease
- Future developments may revolutionize breast imaging.

Report by Moji Animashaun (ARN Council Member) and Adolphus Eze (ARN PRO)

TANZANIA

Radiographers from different parts of Tanzania listen attended the CPD Program on the role of contrast media in radiology, the seminar was conducted on March 2021 at MOI Conference Centre in collaboration of Mindray Company.

It was a well-attended program with robust discussions. Report by Joseph Ndumbaro ISRRT Council Member for Tanzania
Ambassadors of the Year!
The WRETF is proud to announce that this year we are recognizing two Ambassadors of the Year! This honor is bestowed upon Ambassadors who have made exceptional contributions to fulfilling the WRETF’s mission of fostering a global culture of volunteering to increase access to education in the science and practice of radiography, radiation and allied subjects throughout the world. The WRETF is extremely grateful for their service.

Peachy S. Luna, Philippines
Ms Luna is currently the Dean of the College of Medical Radiation Technology of the Philippine College of Health Sciences, Manila City Philippines. Ms. Luna is the ambassador of the Philippines to the WRETF since 2018 and also serves the International Society of Radiographers and Radiologic Technologists (ISRRT) as the International Council Member for the Philippines. Ms. Luna has taken a leading role in producing this year’s World Radiography Student’s Day.

Adam Francis Zuberi, Tanzania
Adam is a WRETF Senior Ambassador and after returning Maharishi Markandeshwar University in India is currently an Intern at Muhimbili National Hospital in Mluganzila. Mr. Zuberi has provided exceptional service to the Ambassador program since 2019. Mr. Zuberi has played a critical role in the development of our website by creating a comprehensive database of the world’s imaging societies.

The WRETF welcomes the following outstanding professionals to our Ambassador family.

Subramanya Betageri - USA
John Mark J. De Vera - Philippines
Ahmad Elayyan - Jordan
Imad Knas - Syria
Jeyasuthan Mahadevan - Sri Lanka
Michael Aning Osei - Ghana
Wesam Rajab – Egypt
Suraj Sah - Nepal
Yeshi Wangyel – Bhutan

New WRETF Ambassadors
The World Radiography Educational Trust Foundation Ambassadors. Volunteers are one of the WRETF’s greatest assets. It is through the efforts of over forty volunteers dedicated serving around the world as Ambassadors that we can meet the challenge of fulfilling the Foundations mission. The Ambassador Leadership Development Program is focused on developing the full potential of its participants and increasing the efficiency and effectiveness with which they develop and deliver educational resources in their own medical imaging communities. Through project-based learning, participants acquire the knowledge and skills necessary to lead initiatives that lessen their community’s dependence upon the philanthropy of others. WRETF Ambassadors are selected based on their leadership potential in the field of medical imaging or radiation therapy and their desire to serve others.

Christopher Steelman
Chairman
The American Society of Radiologic Technologists has donated $10,000 to the American Red Cross to assist with relief and recovery efforts for the Hurricane Ida and California wildfire disasters. The donation is on behalf of the ASRT’s 156,000 members. The Red Cross is on the ground operating shelters and providing meals and supplies to affected communities in Louisiana and California. “We send our deepest sympathy to everyone affected by these devastating natural disasters, especially to those who lost loved ones,” said ASRT President Kristi Moore, Ph.D., R.T.(R)(CT). “We are grateful that hundreds of Red Cross volunteers are working to provide comfort and assistance, and we are proud to be able to support their efforts.” More than 31,000 registered radiologic technologists live and work in the two states and many of them are ASRT members. ASRT is committed to assisting its members and local communities affected by natural disasters and donates to organizations that can help with on-site recovery efforts.

ASRT names national recipients of education and professional growth scholarships
The ASRT Foundation has named 50 recipients of the 2021 Advancing Your Profession: Education and Professional Growth Scholarships program. Funded by the American Registry of Radiologic Technologists, the program supports professional and educational advancement opportunities for medical imaging and radiation therapy professionals. Recipients receive scholarship funds that can be used for continuing education programs, textbooks and educational products, conferences or ARRT primary or secondary certification exams. Scholarship applicants are required to submit a short essay answering the question, “How does acquiring and maintaining certification improve patient care?” One recipient, Shyniece Frederick of Waianae, Hawaii, answered, in part, “The imaging department in health care is an ever-advancing industry; professional development helps us to advance along with it. We must acquire and maintain our certification not only for ourselves, but also to improve healthcare for patients.”

ASRT staffing survey notes COVID Impact, decreases in vacancy rates for 2021
Vacancy rates for most medical imaging disciplines decreased slightly in 2021, according to the ASRT Radiologic Sciences Staffing and Workplace Survey 2021. Vacancy rates represent the number of unfilled positions that are actively being recruited. Researchers pointed out the survey was conducted in Feb. 2021, during the COVID-19 pandemic, and that staffing and vacancies could be subject to substantial change in the future. Vacancy levels for nearly every modality decreased to some degree in the 2021 survey. Only bone densitometry showed a slight increase, while magnetic resonance technology stayed steady with no losses or gains. The respondents, 457 managers of radiology departments across the country, also weighed in on the impact of COVID-19:

- 48.6% said staff had adequate access to personal protective equipment throughout the pandemic.
- 46.2% said their department experienced decreased throughput during the pandemic.
- An average of 68.3% of staff in imaging departments were at least partially vaccinated, according to respondents, and an average of 15% of staff in imaging departments contracted COVID-19 at some point during the pandemic.

“This year saw a decrease in vacancy rates across most of the disciplines that we are tracking,” said ASRT Director of Research John Culbertson, M.Ed, M.A. “However, caution should be taken when interpreting and generalizing this data due to the impact of the COVID-19 pandemic. The survey results should be viewed as a snapshot specific to the dates in which the data was collected.”

Former ASRT President selected for Executive Staff Leadership Role
Former ASRT president, Melissa Pergola, Ed.D., R.T.(R)(M), FASRT, previously Melissa Jackowski, has been named executive vice president of governance and public policy for the American Society of Radiologic Technologists, the professional association that represents more than 156,000 medical imaging and radiation therapy practitioners. Dr.
Pergola brings more than 30 years of experience as a radiologic technologist and an educator working in hospital, corporate and university settings. She has spent the past six years at Siemens Healthineers working for both the business and human resources divisions driving its people and leadership initiatives. Before her career at Siemens, she was a clinical assistant professor at the UNC-Chapel Hill School of Medicine. She holds a doctorate in health professions education and a master of science degree from North Carolina State University and a bachelor’s degree in radiologic science from UNC-Chapel Hill. “I’m humbled and excited to take on this role at ASRT,” said Dr. Pergola. “I’ve always been passionate about our profession, and public policy advocacy is an important avenue to move the needle on patient safety and other critical issues in health care. I look forward to working with our members across the country and supporting our important profession through legislative and regulatory actions.” Dr. Pergola spent five years on the ASRT Board of Directors, completing her term as chair of the Board in 2020. She has 15 years of volunteer experience with ASRT and more than 10 years of lobbying experience at the state and national levels championing a variety of health care issues. Her passion, leadership skills and extensive knowledge of ASRT’s mission, its members and the profession make Dr. Pergola a true asset to ASRT.

Donna Long
Council Member

EUROPE

PORTUGAL

The Medical Imaging and Radiotherapy Portuguese Association recently made two webinars about themes that may be of interest to his associates and followers.

The first webinar was about Radiographers in a Hemodynamic service, APIMR was proud to welcome professionals from the multidisciplinary team of Hemodynamics at the Centro Hospitalar Tondela-Viseu. In this exchange of experiences we had intervention cardiologists, radiographers, cardiac fisiologists and nurses. In this multidisciplinary approach, the fantastic teamwork of all professionals stood out, the future of technological evolution in this area was very clear and we all encouraged for more colleagues in Radiology to embrace this area in their services.

In the final satisfaction questionnaire, the overall average rating of the course of those who responded was 4.69 (from 0 to 5).

The second webinar was about work opportunities and conditions abroad, there were some very interesting presentations and debate about the work opportunities for Portuguese Radiographers in countries like France (IMPF Medical), Belgium (Moving People) and UK (Vitae Professionals). This webinar was suitable for radiographers with experience or newly graduated.

UNITED KINGDOM

Radiographers say ‘no’ to excessive working hours

The Society of Radiographers (SoR) has written to all members about the critical situation of staffing levels in the UK National Health Service, advising radiographers to refuse to work excessive hours. Officers believe that the stress being caused by staff shortages and increased workload is rapidly becoming an equally serious safety issue.

SoR chief executive Richard Evans said: ‘Trying to go on carrying a service at the detriment to your own wellbeing is not sustainable; neither is it in the interests of patients. Staff working excessive hours to cover for absent colleagues and historic understaffing is fuelling high sickness and burnout and increasing and prolonging the problem.

The Society has also written specifically to radiography managers, offering help to negotiate with employers and avoid the risk that the service could ‘collapse completely’.

Radiate: Wellbeing sessions for radiographers

Members of the SoR have been offered a special programme of wellbeing webinars over the past six months to help them beat burnout and progress their careers. Initially a month-long event in April 2021, the popularity of the sessions led to an ongoing programme of monthly events.

Word Radiography Day posters

This unique opportunity to celebrate radiography as a career and its vital
contribution to modern healthcare, is always crowned in the UK by the creation of a series of posters to promote the profession. This year’s five winning posters designed by SoR members really showcase the breadth of work covered by radiography professionals and celebrate the teamwork that binds them together, raising awareness of radiography during an incredibly challenging time.

**New guidance on use of Artificial Intelligence in radiography**
The SoR’s recently published guidance on AI warns that clinicians must be involved in the co-construction and development of the technology, to safeguard clinical practice and patient care. The guidance states: ‘The radiography workforce, including registered diagnostic and therapeutic radiographers, are among the most technology-enabled professions in healthcare. To understand and work to mitigate risks for patients and staff, it is essential for radiography teams to understand key terminologies and issues around the use of AI.’

**Quality Standard for Imaging is re-launched**
The QSI has been undergoing an external review and the new standard was launched in October 2021, based more on outcome measures and with a greater emphasis on the patient experience and care. The QSI is jointly developed by the College of Radiographers and the Royal College of Radiologists. It covers all parts of a diagnostic imaging service and provides professional standards for patient-centred and excellent services. The QSI is applicable in any health care setting where imaging is undertaken. Accreditation against the QSI is encouraged. The process takes time to achieve and is a badge of honour for departments but more importantly it is used to genuinely improve the quality of imaging services. The QSI provides a framework upon which a service can be assured that they are delivering high quality and patient-focused care through continuous improvement.

**New President from Scotland**
Claire Donaldson was inaugurated as the SoR’s President for 2021/2022 in August with the ethos of #ifIcanyoucan. Claire is a Scotland representative on the Society’s UK Council and a diagnostic radiographer with 13 years’ experience. Claire’s ethos is #ifIcanyoucan, and she shared their journey from rep to president in the hope that it inspires others to follow in their footsteps: ‘If I can get involved being different the way that I am, you can get involved being different the way that you are, and our organisation will only be better for more diverse people getting involved with it.’ Watch her impassioned inauguration speech here: [www.sor.org/events-programme/presidential-inauguration](http://www.sor.org/events-programme/presidential-inauguration)

**AUSTRALASIA**

**JORDAN**
World Radiology Day 12.11.2021, which was established by the Association of Radiology Technicians in the Hashemite Kingdom of Jordan was celebrated in cooperation with the association’s employees from government and private hospitals, medical services, educational hospitals, and university students.
UNITED ARAB EMIRATES

According to the United Arab Emirates (UAE) vision of placing the country as the best country in the world by 2071, the UAE, represented by its government, works diligently to implement a world class system in each and every lively sector of the country. Hence, the Health Sector comes at the top of the list.

In accordance with this, the UAE and for the sixth consecutive year hosted the Annual Radiology Meeting in UAE (ARM), an annual event held in Dubai, that brings together professionals from the UAE and abroad to explore key advances in the field of Radiology. ARM is a leading event of both the Radiology Society of the Emirates (RSE) and the Radiographers Society of the Emirates (RASE).

Throughout the years, ARM has successfully marked itself as the best annual radiology meeting in the region, and the last edition was no exception. In its last edition, which was held from 10 – 12 October 2021 in Dubai, more than 47 experts came from all parts of the world to deliver more than 70 scientific sessions that focused on the latest trends and practices in Radiology and how new technologies are enabling Radiologists & Radiographers to provide quick and accurate diagnosis which in return deliver outstanding patient care.

With the understanding that Radiologists and Radiographers have very different but equally important roles, ARM conference featured three dedicated high end scientific tracks that are dedicated to enrich the knowledge and skills of both Radiologists & Radiographers through a “Radiologist conference”, “Dedicated Radiographer Sessions” and “Virtual Ultrasound Seminar for Radiographers”. Each track was carefully designed to provide a perfect platform for attendees to exchange knowledge, expertise, and networking with peers.

ARM gains support from several international societies and entities, particularly the International Society of Radiographers and Radiological Technologists (ISRRT) who contributed highly to the event success through very impactful and educational lectures that enhance the role of Radiographers. This year, Mr. Philippe Gerson – ISRRT Treasurer delivered an interesting lecture on the Profession of Radiographers in France which highlighted the versatility of the radiographers, the outlook of the profession for the years to come, the working conditions including the salary, working hours and more. His lecture was a big hit and was very well received by the delegates.

In addition, key insights on many other trending topics such as Artificial Intelligence in Radiography, Current Challenges and Opportunities in Radiation Protection, Applications in: Retrograde Urethrography (RUG), ACR Contrast Media Updates, Research in medical imaging, Ultrasound for radiographers special track and more were discussed at the ARM 2021 edition.

The event also featured a Poster Presentation Competition that gave the opportunity for Radiographers and Students to display thought-provoking research. It has also encouraged them to think outside the box and be creative.

Simultaneously, a rich trade exhibition occupied an overall space of 3,858 sqm and brought together 40 leading international brands to showcase their latest technologies in the field of radiology and diagnostic imaging.

The 7th edition of ARM will be held in 2022 in Dubai and is expected to attract an even bigger number of attendees and participating companies as many companies and specialists have shown interest in being on board, which proves that ARM will continue to be the platform that bundles the radiology team together, while offering a great learning opportunity and an amazing platform to exchange wisdom, knowledge, and tips and tricks.
Hi every society member and the ISRRT Board.

These are news from our association for 2021:

- During the COVID-19 pandemic our association couldn’t work vigorously, because of the safety barriers: physical meeting and training are also forbidden. And concerning the use of technology to meet is still hard for more of us, especially for those who work in remote place. But once the barriers are taken out, we decide to execute our plan of congress that we thought to do in 2020. And we change the topic to be more related to the current context. Below is all information about this congress.

- All of us (radiographers) took care of COVID patients during the pandemic.

- Another thing, we really look forward about cooperation between our association and the mother international society ISRRT and other societies on training and sharing competency.

- One of our members followed the on line course offered by Geneva foundation this year about “Communication on Pediatrics Imaging”.

- Our association is looking forward for cooperation and collaboration between the ISRRT and other societies for strengthen our competency.

The field of medical imaging in Madagascar has continued to evolve over the last two decades. It brings together the disciplines of radiography, scannography, magnetic resonance imaging (MRI), scintigraphy, nuclear medicine, lithotripsy, cobalt therapy, radiotherapy, ultrasound, electroencephalogram (EEG) and the electrocardiogram (ECG). Each type of imaging plays a very important role either in the diagnosis or in the therapeutic management, or simultaneously on a disease.

Currently, almost any observation or intervention goes through imaging before making a decision on the patient’s fate. Its field of action is vast and interests many disciplines of medicine such as oncology, gynecology, pneumology, traumatology, urology, surgery... In addition, the technology used is becoming more and more efficient by following the evolution in diagnostic technology at a global level, not to mention the digitization of the image, the use of high resolutions on the scannography technique and more and more efficient devices in the case of radiotherapy and Cobalt therapy. It can act alone or in addition to medical or surgical treatment, and performed under medical prescription.

In Madagascar, there are many diseases that can be detected in time or stopped at an embryonic stage if we only talk about cancers, using diagnostic and / or therapeutic techniques wisely.

The National Association of Paramedics in Medical Imaging or (ANPIM) created in 2002, brings together medical imaging professionals in Madagascar. There are currently 350 medical electroradiology manipulators, who are scattered throughout the 23 regions of our island and work in close collaboration with doctors from other disciplines. Its vision is to promote diagnostic and therapeutic medicine in Madagascar while maintaining the safety of members.

Our association is a member ISRRT bringing together radiologists and manipulative technicians in medical electroradiology from around the world, we have participated in conferences and / or online training organized by the ISRRT since 2017.

Since 2006, our association every two years organizes a congress or training for the revitalization and revaluation of our profession but also to train our members to have the same level of knowledge on diagnostic and therapeutic techniques in medical imaging in Madagascar and in the world. It develops its vision...
shared with the Ministry of Public Health and its objectives at the national and international level in collaboration with the various entities (State-Partners-Donors) and other associations in order to implement «Health reached closer to Malagasy people.” It plays a role of ‘watch’ for the profession and the obligations of its members to offer humanized, adequate and innovative care to patients, to protect and enhance the professionals as much as the profession and to strengthen awareness among the population.

Since 2019, it has been observed that medical imaging professionals are classified among the staff in the foreground in the face of COVID-19 disease and also, they are exposed to both this disease and ionizing radiation during their work. This is why we opted for the choice of the theme: ‘Radioprotection And COVID-19 In Madagascar’, which was held November 24-26, 2021 in Majunga. This topic is divided into two parts: The technical part on radiation protection and the purely medical part on COVID-19. Our target includes all professionals in the health field who are interested in the implication of the COVID-19 disease in imaging technology.

**Goals**
The main gaols of ANPIM is to contribute to the vision of the Ministry of Public Health on health close to the Malagasy people.
- Promote humanized, adequate and innovative care for patients;
- Determine the protection and promotion of professionals as well as the profession in medical imaging;
- Contribute to therapeutic and diagnostic management in medical imaging in the face of COVID-19;
- Raise awareness among clients and / or the general public about COVID-19.

**Strategies**
- Advocacy at the level of donors (sponsors, partners);
- Explanation in the interest of the general public;
- Active participation of members in all congress activities;
- Dissemination of the proceedings of the congress to the media (TV, radio, newspapers, etc.)

**Expected results**
- Therapeutic management and diagnosis of Covid patients in the Imaging department;
- Humanized and appropriate technical care used for patients;
- Work environment corresponding to international standards;
- Adequate radiation protection measures,

**Targets and participants**
- Members of the association;
- Professionals in the field of general and specialized medicine;
- Professionals in the field of radiation protection;
- The audiences.

**Mali**
We celebrated the international radiology day in October in Mali because we wanted to be taking part in the congress being held in Cameroon from November 4-8, 2021.

Pictured below, top to bottom:
- President of SOMIM
- President of ATIR Mali
- Treasurer & Administrator of ATIR Mali
- Organiser
- End of the ceremony

Ibrahima Traore
Bamako, Mali
TANZANIA
The Tanzania Association of Radiographers has recently celebrated several important events.

**March 18, 2021**
TARA incorporation with GE, conducted workshop at MOI Conference Centre titled “The effect of Contrast Media on the quality of Diagnostic image and interventional radiological procedure as career professional development for sonographers and radiographers. More than 100 Radiographers were attended.

**July 25, 2021**
TARA incorporation with ANUDHA / Mindray, conducted Ultrasound workshop at MOI Conference center as career professional development for radiographers. More than 90 delegates were in attendance.

The TARA EXECUTIVE COMMITTEE from Left OmaryMsehwa (General Secretary), AboubakaryHassan (RAOTA), BakaryMsongamwanja (President TARA) and AminLigongo (Treasure-TARA) during the Mindray workshop conducted at Serena Hotel on 25 July, 2021.

**September 4, 2021**
Members of the Executive TARA Committee and ISRRT Representative Mr.Joseph Ndumbaro attended the event of Launching the Association of Radiographers Student's at Muhimbili University.

**World Radiography Day**
In Tanzania, TARA celebrated the WRD by free ultrasound screening examination to the societies on November 6 at different arranged hospitals according to the country zones at Dar es Salaam-Eastern Zone, Mwanza-Lake zone and Dodoma-Central zone.

TARA Scientific conference and Annual General Meeting was conducted on November 12-13, 2021 at Mwanzaregion.

**November 14, 2021**
after conference and AGM, participants will have a study tour trip in celebrating the World Radiography Day by visiting Bujora Historical site located in Kisesa, about 18km from Mwanza city center.

**July 28, 2021**
The President of Tanzania Association of Radiographers (TARA), gets the COVID-19 vaccine to motivate radiographers to be vaccinated during the COVID-19 vaccine campaign launched by President of Tanzania Hon. Samia Suluhu Hassan on July 28, 2021.