

## INTERNATIONAL EDUCATIONAL OUTREACH SURVEY CONDUCTED FOR THE ISR WORLD COUNCIL BY RSNA

		ORGANIZATION/CONTACT	MEMBERS	INTERNATIONAL EDUCATION OUTREACH EFFORTS
1	AAPM	AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE Azam Niroomand-Rad NIROOMA@gunet.georgetown.edu	5,000	<p>1) Annual Int'l Scientific Exchange Programs (ISEP-T) 1 week course/workshop in radiation therapy physics for developing countries: AAPM Budget \$7,500 per year. For 2004, this program is being offered to China. For 2003, this program was cancelled with China due to SARS health-related problems. For 2002, this program was offered to Saudi Arabia.</p> <p>2) Annual Int'l Scientific Exchange Programs (ISEP-D), 1 week course/workshop in diagnostic/nuclear medicine physics for developing countries: AAPM budget \$7,500 per year. For 2004, this program was offered to UAE. For 2003, this program was offered to Egypt. For 2002, this program was offered to Brazil.</p> <p>3) Annually, about 50 medical physicists from developing countries are sponsored for membership in AAPM. Their dues are paid partially by AAPM funds (\$400 per year) and partially by private donations by members.</p> <p>4) Annually, educational materials and journals/books are donated to the int'l libraries in developing countries (\$1,000 per year).</p> <p>2004: IAC is supporting Int'l Conf on Medical Physics in Brazil (\$5,000). 2005: ISEP-T course/workshop in radiation therapy physics in Philippines. 2005: ISEP-D course/workshop in diagnostic/nuclear medicine physics in India or Cameroon.</p> <p>AAPM is member of Int'l Organization for Medical Physics (IOMP) and collaborates with medical physicists worldwide. AAPM collaborates with chapters of IOMP with the European Federation of Medical Physicists (EFOMP) and Latin American Association of Medical Physicists (ALFIM). AAPM reports available free of charge to medical physicists worldwide.</p>
2	ACMP	AMERICAN COLLEGE OF MEDICAL PHYSICS Laureen Rowland <a href="mailto:lrowland@drohanmgmt.com">lrowland@drohanmgmt.com</a>	500	Free journal of technical medical physics on web.
3	AOCR	AMERICAN OSTEOPATHIC COLLEGE OF RADIOLOGY Pamela Smith, <a href="mailto:aocrps@nemr.net">aocrps@nemr.net</a>	1,100	AOCR does not have any international outreach committee or programs at this time.
4	ASTRO	AMERICAN SOCIETY FOR THERAPEUTIC RADIOLOGY & ONCOLOGY, INC. Lisa Lefebvre <a href="mailto:lisal@astro.org">lisal@astro.org</a>	1,303	ASTRO International Relations Committee, Dr. William Shipley, Chairman. We are developing outreach programs this year. Under discussion: providing CD/DVDs, internet programs where accessible, sponsorship collaboration with underserved areas, donating journal subscriptions, and, possibly, creating a Visiting Physicians' Program.
5	ASRT	AMERICAN SOCIETY OF RADIOLOGIC TECHNOLOGISTS Lynn May, CEO <a href="mailto:lmay@asrt.org">lmay@asrt.org</a>	112,000	The ASRT concentrates its international outreach activities through the International Society of Radiographers and Radiologic Technologists. The ASRT supplies approximately 40% of the ISRRT's dues revenues. The ISRRT conducts outreach in collaboration with WHO and other international organizations. Currently, the ASRT is providing additional funds and staff resources to assist the ISRRT to enhance its website and to develop international guidelines for the education and competency assessment of radiographers and radiologic technologists. The ASRT has also been interacting with several of the larger radiographer societies in developed countries on workforce development issues.
6	AOSR	ASIAN OCEANIAN SOCIETY OF RADIOLOGY Lenny Tan, MD <a href="mailto:lennytan@nus.edu.sg">lennytan@nus.edu.sg</a>	23 Radiological society federation	<p>Members: Australia, Bangladesh, China, Chinese Taipei, Fiji, Hong Kong, India, Indonesia, Japan, Korea, Malaysia, Mongolia, Nepal, New Zealand, Pakistan, Philippines, Singapore, Sri Lanka, Thailand, Tonga, Uzbekistan, Vietnam, Western Samoa. Member societies have their respective structure looking after education and outreach programs.</p> <p>The congress organizers sponsor young radiologists to attend the AOCR. Different officers, in their capacities in AOSR also participate in teaching programs and in scientific congresses as speakers in different countries. For the past 2 years, there is no specific program set up due to epidemics and availability of sponsorship. We publish <i>AOSR Journal</i> which is distributed to radiologists of member societies through their respective societies.</p>

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7	CAR	CANADIAN ASSOCIATION OF RADIOLOGISTS Jean-Phillippe Rheault <a href="mailto:jp@car.ca">jp@car.ca</a>	1,900	The Canadian Association of Radiologists is a voluntary organization representing the goals and the interests of imaging specialists in the Canadian medical community. The purpose of the organization is to promote the clinical, educational, research, and political goals of Canadian radiology to members, organized radiology, medical associations, government and the public.
8	FMRI	FEDERACION DE RADIOLOGIA E IMAGEN Francisco Avelar Garnica, MD <a href="mailto:contacto@fmri.org.mx">contacto@fmri.org.mx</a>	1,800	We do not have an International Outreach Committee or have any programs. We can contribute up to \$1,000 USD to help with expenses for travel for a visiting professor to a Spanish-speaking country.
9	GUEDF	Global Ultrasound Equipment Donation Foundation, Barry B. Goldberg, MD <a href="mailto:barry.goldberg@jefferson.edu">barry.goldberg@jefferson.edu</a>	Not given	GUEDF's mission is to provide donated ultrasound equipment to needy clinics, hospitals and teaching facilities in emerging and developing countries around the world in order to improve diagnosis and raise the level of health care in these countries. The Foundation's program and activities consist of several components: Solicitation of contributions of equipment; selection of needy sites; distribution of equipment; determining knowledge level of potential equipment users; and training of equipment users.  Initial donation of up to 600 machines over 3 years. Approximately 175 ultrasound machines have been received as of March, 2004.  This non-profit foundation works closely with other non-profit organizations including the Jefferson Ultrasound Research and Education Institute (JUREI), Assist International (AI), Carelift International (CI), the Radiology Outreach Foundation (ROF), and the International Certification and Education Accreditation Foundation (ICEAF).  12 Ultrasound machines have been shipped to Africa, 3 to Afghanistan with plans for sending up to 10 more. A grant has been obtained for the shipment of 20 to Serbia and 3 to Croatia. Discussions are underway for sending ultrasound machines to Iraq. Shipments to other needy areas are under discussion.
10	HKCR	HONG KONG COLLEGE OF RADIOLOGISTS Fu-Luk Chan <a href="mailto:fichan@hkam.org.hk">fichan@hkam.org.hk</a>	600	Sponsorship of young radiologists from Asian countries to participate in HKCR annual scientific meeting held every October (\$4,000-\$10,000). 2002: Thailand, Philippines, Vietnam, Macao. 2003: Japan, Malaysia, Philippines, Macao.  Training in Clinical Oncology for doctors of countries in the Asian Region (\$2,000. Government of trainee's country will be supporting traveling and living costs for the trainee.) 2003: Malaysia  Team of radiologists to deliver lectures at cities of Mainland China (\$2,000-\$5,000). 2002: Chengdu, China; 2003: Shanghai, China Electronic materials on Continuing Education in Radiology and Oncology to be made available to doctors of regional countries.
11	IAEA	INTERNATIONAL ATOMIC ENERGY AGENCY DIVISION OF HUMAN HEALTH Prof. Pedro Andreo, Director <a href="mailto:P.Andreo@iaea.org">P.Andreo@iaea.org</a>	40	Human Health programs: Radiation Therapy and Radiation Biology; Nuclear Medicine; Medical Radiation Physics (Radiotherapy, Diagnostic Radiology, Nuclear Medicine); Nutrition (aspect based on isotopic techniques).  The programs are developed every 2 years and include substantial dedication to activities in education and training of professionals in the various areas, both within the program and in conjunction with the so-called IAEA Technical Cooperation program, which targets all IAEA member states. Detailed information available at " <a href="http://www-naweb.iaea.org/nahu/">www-naweb.iaea.org/nahu/</a> "  Web-based learning for nuclear medicine physicians (in preparation). Guides to essential radiotherapy practice for cancers common in developing countries (new). Syllabi for radiotherapy technologists (in preparation). Distance learning tools for radiation oncologists (in preparation). Syllabi and "primers" on radiotherapy physics (new) and diagnostic radiology physics (in preparation).

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12	ISR	INTERNATIONAL SOCIETY OF RADIOLOGY <a href="http://www.isradiology.org">www.isradiology.org</a>	Federation	<p>Given the ISR's limited resources of people &amp; money, its main mission is to work with other organizations on producing &amp; distributing teaching materials. These organizations include national &amp; regional society members of the ISR plus the major United Nations health &amp; science agencies, i.e., the World Health Organization, the International Atomic Energy Agency &amp; the Int'l Labor Office. The ISR sponsors with WHO the Global Steering Group on Radiologic Education, which has produced several monographs since 1999. The activities of the ISR-sponsored Int'l Commission on Radiologic Education are coordinated with those of the Global Steering Group. The broader mission of the Global Steering Group is to help coordinate producing educational materials so as to maximize opportunities &amp; avoid redundancy. The ISR has worked with the Int'l Commission on Radiological Protection and the Int'l Commission on Radiation Units &amp; Measures on the distribution of several recent reports directed at medical audiences.</p> <p>The ISR circulates several publications from the American College of Radiology to other national members. These include publications on practice standards, appropriateness criteria &amp; BIRADS on mammography reporting.</p> <p>In addition, to scientific organizations, the ISR has rebuilt contacts with leading x-ray manufacturers. AGFA assisted in the producing a poster and sticker about good pediatric practice. This is available electronically from ISR and the Int'l Commission on Radiation Protection.</p> <p>Currently, the ISR completed design of an expanded website which will be a major portal for int'l communications among the radiology community. The site is now operational at <a href="http://www.isradiology.org">www.isradiology.org</a>. It is linked to nearly 2 dozen sites for radiology and scientific societies &amp; agencies. The webmaster, Giorgio Rizzato, welcomes submission of information about meetings, educational materials and other items of int'l interest.</p>
13	ISRRT	INTERNATIONAL SOCIETY OF RADIOGRAPHERS & RADIOLOGICAL TECHNOLOGISTS Dr. Alexander Yule <a href="mailto:Isrrt.yule@btoopenworld.com">Isrrt.yule@btoopenworld.com</a>	76 (1 per country)	<p>World Radiology Trust Fund collects and distributes textbooks to schools in the developing world. Workshops: (approx. 8,000-10,000 pounds provided for each): French-speaking Africa: Ultrasound, Consideration and Care in Handling AIDS Patients; India: Quality Assurance: Radiation Protection &amp; Cost Containment. Fiji Project: \$10,000 US towards pilot program in Fiji with cooperation with WHO Continuing Education in Diagnostic Education which will take place at the Fiji School of Medicine, Suva, Fiji in June, 2004.</p> <p>Workshops are provided, as requested, following approval by BoD. It is intended that these workshops benefit technologists in the developing world. The ISRRT, with local assistance, would coordinate and facilitate the first workshop in a country, the second workshop should be under the direction of a local committee with ISRRT available to oversee. Subsequently, they provide their own workshops locally. Limited travel &amp; expense grants are provided. ISRRT's fund is very limited.</p> <p>El Salvador: Currently considering a workshop in conjunction with their Association's Conference for November, 2004. The topic &amp; financial assistance is being discussed.</p> <p>ISRRT co-sponsors with ICR a technologists' program at ICR Congresses. ISRRT provides a scientific program for technologists at the annual ECR meeting in Europe. ISRRT represented on IAEC providing input to training manuals. Partner with WHO in producing workbooks on various aspects of Diagnostic Imaging for use in the developing world.</p> <p>Textbooks can be provided relating to the discipline of Diagnostic Imaging and Radiation Therapy.</p>
14	RCR	THE ROYAL COLLEGE OF RADIOLOGISTS Andrew Hall, Chief Executive <a href="mailto:Andrew_hall@rcr.ac.uk">Andrew_hall@rcr.ac.uk</a>	6,500, incl. clinical oncologists	<p>RCR has no specific int'l programs or activities, but the following contribute to int'l presence and impact: Various awards &amp; fellowships, such as Rohan Williams Traveling Professor and Sir Howard Middlemiss Traveling Professor; availability of a large amount of educational material on the web; running exams in some overseas centers; ad hoc help to other radiological societies, e.g., in 2004 met with Vice President of Pakistan College of Physicians and Surgeons; contributions to EAR, ECR, RSNA, UKRC, UKROC; involvement in International Quality Network; work with EU on the RCR radiology guidelines; de-coupled exams allowing entry worldwide; int'l fellowship programs from the Department of Health. Activities funded from central core budgets.</p>

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15	ROF	RADIOLOGY OUTREACH FOUNDATION Barry B. Goldberg, MD barry.b.goldberg@jefferson.edu	Not given	<p>The purpose of the ROF is to provide visiting professors, imaging equipment and educational materials to medical teaching institutions in developing countries. We distribute textbooks, journals, videotapes, CDs and other educational materials. Distribute CDs, DVDs and imaging equipment.</p> <p>The following countries have been targeted during the past 2 years: Albania, American Samoa, Arabian Gulf, Argentina, Armenia, Bangladesh, Bosnia, Brazil, Cambodia, Cameroon, Chile, Colombia, Cost Rica, Croatia, Cuba, Czech Republic, Egypt, El Salvador, Ethiopia, Georgia, Germany, Ghana, Grenada, Guatemala, Guinea, Hungary, India, Indonesia, Israel, Ivory Coast, Jamaica, Jordan, Kazakstan, Kenya, Kosovo, Kuwait, Kyrgyzstan, Laos, Latvia, Liberia, Lithuania, Macedonia, Malaysia, Mali, Mexico, Mongolia, Morocco, Myanmar, Nepal, Niger, Nigeria, Oman, Pakistan, PR China, Peru, Philippines, Poland, Romania, Russia, Senegal, Sierra Leone, Slovakia, South Africa, Sri Lanka, Swaziland, Taiwan, Tanzania, Thailand, Trinidad, Uganda, Ukraine, Uruguay, Uzbekistan, Venezuela, Vietnam, Zaire, Zambia, Zimbabwe.</p>
16	RSNA	THE RADIOLOGICAL SOCIETY OF NORTH AMERICA Fiona Miller fmiller@rsna.org	35,810	<p>Education materials and journal award programs: No fixed budget. Radiology teaching institutions, including medical libraries, in developing nations are able to apply for materials from the <i>RSNA Education Resources Catalog</i> and/or free subscriptions (electronic or hard copy) to the RSNA journals, <i>Radiology</i> and <i>RadioGraphics</i>, or access to InteractED, the RSNA's interactive website.</p> <p>2003: Albania, Argentina, Cameroon, China, Croatia, Cuba, Czech Republic, Ethiopia, Fiji, Georgia, Hungary, India, Kenya, Lithuania, Poland, Romania, Singapore, Slovak Republic, Taiwan, Uganda, Ukraine, Vietnam.</p> <p>International Visiting Professor Program (\$25,000-\$50,000): Radiology societies serving developing nations are invited to apply to host a 2 or 3 person team of visiting professors to lecture at their society meeting and radiology teaching institutions for a period of 10-14 days. Educational materials valued at \$1,500 donated to host institutions.</p> <p>2004: Argentina, Romania, Mexico. 2005: Brazil, Thailand, Sri Lanka, Mexico.</p> <p>Derek Harwood-Nash International Fellowship (\$20,000): Recognizing that there are instances when the educational needs of an international institution are best served by having an individual faculty member study at a North American institution, this 6-12 week fellowship is targeted to international scholars 3-10 years out of training, who are embarking on a career in academic radiology and who demonstrate that their specific educational goals can be met most appropriately by a course of study in a North American institution. Presently, two fellows per year. 2003: Georgia. 2004: Nepal, Romania.</p> <p>Introduction to Research for International Young Academics (\$17,000): Developed to encourage young radiologists outside of the USA and Canada to pursue careers in academic radiology, this program is targeted to residents, fellows, and radiologists up to 2 years beyond training. Department chairs are invited to nominate candidates for the 4 day program held during the RSNA Scientific Assembly. 15 participants are selected from nominations received from department chairs or training directors. 2003: Belgium, Brazil, Croatia, India, Japan, Korea, Lithuania, Mexico, New Zealand, Nigeria, South Africa, the Netherlands, Tunisia, Ukraine.</p> <p>Some materials captured from past RSNA scientific assemblies available in video, slide, audio format. Refresher course materials in CD format from RSNA 2003 available in limited quantities. The RSNA Board has approved one-year free membership for Iraq radiologists.</p>
17	RSSA	THE RADIOLOGICAL SOCIETY OF SOUTH AFRICA	Not given	Supports regional teaching activities and invite colleagues from neighboring countries to our meetings.

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18	RANZCR	THE ROYAL AUSTRALIAN & NEW ZEALAND COLLEGE OF RADIOLOGISTS Don Swinbourne <a href="mailto:ceo@ranzcr.edu.au">ceo@ranzcr.edu.au</a>	2,200	No particular programs developed for international outreach. These resources available to foreign radiologists on a subscription basis: <i>Australasian Radiology</i> (academic journal, 4 editions annually); Annual scientific meeting (September-October annually). RANZCR, with ISRRT & WHO, conducting 2 week training course for selected radiographers from South Pacific island countries to improve technical & develop interpretation skills. RANZCR is one of the foundation members of the International Radiology Quality Network (IRQN) the aim of which is to promote quality in radiology through collaboration, experience sharing & mutual assistance. Current activities include development on an inventory of quality resources to be shared & the development of a quality awareness program by contributing to quality segments in radiology conferences. Have some video material captured from local Australian branch videoconferenced education meetings may be available in limited quantities.
19	SFR	SOCIÉTÉ FRANÇAISE DE RADIOLOGIE Mme Catherine Prop <a href="mailto:sfr@sfradiologie.org">sfr@sfradiologie.org</a>	6,000	No fixed budget for education materials. In developing nations, radiologists are able to apply to become SFR members at special rates and/or gratis appliance.  Targeted countries: Morocco, Algeria, Tunisia, Libya, Lebanon, Syria, Africa (French-speaking), Argentina, Brazil, Viet Nam, Roumania, Hungary and Poland.  Bourses Jacques Sauvegrain: Every year 15 young people are invited to attend the annual French meeting in Paris. Educational Grants: Annually, grants are attributed to young radiologists who want to spend 3 months in France for a specific educational purpose (no fixed budget). Educational Meeting: In most of the above countries every year, and in others every 2-3 years, an educational meeting is organized; the SFR pays for the French invited speakers (no fixed budget). International Visiting Professor Program: In connection with the GREF (no fixed budget), mainly developed in Africa and in Roumania, Hungary and Viet Nam.  The SFR will consider the creation of a Mediterranean Radiological Association, in association with Italian and Spanish radiological societies. Collaboration will be considered with the EAR, the ISR and the WHO in order to promote the best standards in the French speaking area.  All the electronic files of educational products published by the SFR for the last 10 years would be available if a worldwide education project would be launched. In the meantime, all these products are to be freely sent to people in the targeted countries by the SFR.
20	SMRI	Sociedad Mexicana de Radiologia e Imagen Jorge Bisteni, MD <a href="mailto:jbisteni@servimed.com.mx">jbisteni@servimed.com.mx</a>	640, plus 81 residents	Responsible for outreach: Miguel Stoopen, MD; Jose Luis Ciales, MD; Oscar Quiroz, MD; Paulina Bezaury, MD. SMRI's objective is to continue medical education with international programs oriented to Central and South America. 1) International Course of Radiology & Imaging: Purpose to increase & update information of high level based on lectures given by professors from U.S., Europe, Asia & South America. Annual course organized every February with attendees from Mexico, Guatemala, Panama, Colombia, Argentina, Salvador & Bolivia. The budget is \$350,000 US. 2) International Course of Ultrasound: Purpose to increase knowledge of techniques with lectures given by professors from US, Argentina & Mexico. Annual course organized every February with attendees from Mexico, Guatemala, Panama, Colombia, Argentina, Salvador & Bolivia. Budget is \$200,000 US. 3) Monthly sessions on General Radiology. 4) Monthly sessions on Ultrasound. 5) Monthly sessions on CT & MRI. 6) Monthly sessions on Intervention. 7) Monthly sessions for Residents. 8) Physics course every 6 months for Mexico. Budget \$10,000. 9) General Radiology Update Course yearly for Mexico. Budget \$10,000. 10) Course for Radiology Technicians yearly for Mexico. Budget \$10,000. <i>Journal Anales de Radiologia Mexico</i> with free access to clinical case included in web page <a href="http://www.smri.org.mx">www.smri.org.mx</a> as well as teaching materials for the general public and medical professionals. SMRI has a Professors Exchange Program with the Spanish Society of Radiology and the Visiting Professor Program with RSNA.

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21	SIR	Society of Interventional Radiology Peter B. Lauer, CAE, Executive Director, lauer@sirweb.org	5,500	<p>Liaison with CIRSE as well as Asian IR groups in Japan, China &amp; Korea. Attend CIRSE annually &amp; host International Forum with international attendees at SIR annual meeting. Include many international IRs on annual meeting program as speakers or moderators. Budget around \$25,000 for travel and related expenses annually.</p> <p>Plan an attending the Tumor Ablation/Oncology meeting in Milan as outreach to this group of IRs in Europe. Also, co-sponsoring an oncology meeting in London in 2005 as part of a greater outreach to the European oncology community. Continuing to look at opportunities in Asia for education outreach and coordination.</p>
22	WHO	WORLD HEALTH ORGANIZATION Harald Ostensen, MD, Coordinator <a href="mailto:ostensenh@who.int">ostensenh@who.int</a>	Not given	<p>Unfortunately, there is still a severe lack of safe and appropriate diagnostic imaging services, i.e., basic x-ray and ultrasound in large parts of the world. In some developing countries more than 50% of images are not of diagnostic quality, or, being misinterpreted. In other areas, the imaging facilities are simply not available or not functioning. Common for large parts of the world is the lack of medical specialists, including radiologists. In the field of diagnostic imaging, this means that radiological technologists/radiographers are the only specialty educated hospital staff available. In addition, many of these have not had much opportunity to update their knowledge and practical skills originally learned. Often they are working alone and have to take care of both radiographic matters, radiation protection matters, and medical and diagnostic aspects of their work, without any opportunity to discuss or to update their knowledge.</p> <p>Initiatives taken by WHO and the world's scientific communities represented by the WHO/ISR Global Steering Group for Education and Training in Diagnostic Imaging have proven to be of major importance for improving both quality, quantity and safety of diagnostic imaging services within specific geographical areas. Although activities are initiated and supported by the WHO, the major work is totally based on a close collaboration between national authorities and a group of local/regional experts in the area of diagnostic imaging and built up around a Center for Excellence for Continuing Education in Diagnostic Imaging. Such centers are located within an already existing and well-functioning diagnostic imaging department of a university hospital.</p> <p>A group of local experts, including radiologists, radiographers, physicists where available, and representatives from the university administration are supposed to form a local Project Group, or Steering Committee, to evaluate needs, develop plans and execute training activities as appropriate and needed within their country, firstly, and within their geographical region, secondly.</p> <p>The Center of Excellence is supposed to be more an organizational unit than a physical location, but some basic facilities need to be in place in addition to a room suitable for seminars and workshops. From experience in Kenya, it has been proven that WHO support needs to be strong in the beginning, and that the local group slowly will take over both responsibility and practical work over a period of 2-4 years.</p> <p>The WHO Headquarters mainly assists the local group with advice, training material, books and manuals and external experts for lecturing.</p> <p>As of April 1, 2004, three Centers of Excellence have been developed: Nairobi, Kenya; Yaounde, Cameroon; Suva, Fiji. In Kenya, the local expert group is now carrying out the work nearly on their own and the WHO support focuses on yearly intensive training courses for the group. Presently, they are conducting 1 week training courses in practical QA/QC and pattern recognition in 10 small and mid-size hospital settings in Kenya.</p> <p>In Cameroon, the first train-trainers seminar is scheduled for August, 2004 and is to be given by French speaking lectures from Europe. In Fiji, the first course for selected radiographers from various small island countries in the Southern Pacific will take place during the first half of June. The latter will be given by experts from Australia and New Zealand representing the Royal Australian New Zealand College of Radiologists (RANZCR) and the International Society of Radiographers and Radiological Technologists (ISRRT).</p>