

ESOR
European School of Radiology

*Education in
partnership*

Annual Report 2008

European School of Radiology

*Education in
partnership*

The **European School of Radiology (ESOR)** is an established and growing initiative of the European Society of Radiology (ESR) in the field of education. Its main goal is to assist in harmonising radiological education in Europe. With its wide range of activities, ESOR additionally aims to raise standards in the field of scientific radiology, to extend and coordinate teaching resources worldwide and to help young radiologists to obtain the knowledge and skills to fulfil tomorrow's requirements.

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Welcome



Dear Colleagues,

On behalf of the ESOR Steering Committee, I am happy to report on a very fruitful educational year for the European School of Radiology. The following pages offer an overview of the activities of the past year and give an insight into diverse educational programmes established for residents and young radiologists. In its third year of existence ESOR responsibly continued its commitment to assist in harmonising radiological education in Europe. On top of this, the active engagement with our partners in Europe and from around the world, and the continuous support from ESR, have enabled further development of ESOR. Thus more educational opportunities for young radiologists could be offered during 2008.

ESOR activities this year included courses, seminars, scholarships, exchange programmes for fellowships, tutorials, and a virtual school. It is estimated that more than 1900 young radiologists from 75 countries were attracted by the various ESOR programmes in 2008. Such figures once again emphasise the need for educational support of radiologists in training and reflect the efficient work, dedication and commitment of local organisers, lecturers, teachers, tutors, and all the reference training centres and subspecialty societies.

Despite these achievements, ESOR remains undoubtedly an endeavour in progress. The future is challenging and will require uninterrupted commitment and many more activities aimed at helping young radiologists to obtain the knowledge and skills to fulfil tomorrow's requirements.

Professor Nicholas Gourtsoyiannis
ESOR Scientific/Educational Director

ESOR Steering Committee

Scientific/Educational Director

N. Gourtsoyiannis

Department of Radiology
University of Crete, Iraklion/GR

Committee Members

M. Szczerbo-Trojanowska

Department of Interventional Radiology
Medical University of Lublin/PL

C.D. Becker

Department of Diagnostic and
Interventional Radiology
University Hospital of Geneva/CH

G. Mostbeck

Department of Radiology
Wilhelminenspital, Vienna/AT

Ex-officio Members

M. Leonardi (since October 2008)

Department of Neuroradiology
Bellaria Hospital, Bologna/IT
ESNR European Courses of Neuroradiology

M. Schumacher (until October 2008)

Department of Neuroradiology
University Hospital Freiburg/DE
ESNR European Courses of Neuroradiology

W. Steinbrich

Department of Radiology
University Hospital, Basel/CH
ESMRMB School of MRI

Co-opted Members

B. Marincek

Department of Radiology
University Hospital Zurich/CH

A. Palkó

Department of Radiology
A. Szent-Gyorgyi University
Medical School Szeged/HU

GALEN Courses



GALEN (129–200 AD)

Greek: Γαληνός

Latin: Claudius Galenus of Pergamum

Arabic: Jalinus

Better known in English as Galen, he was an ancient Greek physician. Galen transmitted Hippocratic medicine all the way to the Renaissance. His views dominated European medicine for over a thousand years. Galen's work can be seen as building on the Hippocratic theories of the body.

The GALEN courses are scheduled to rotate between representative venues throughout Europe. In terms of content and aim these are structured into foundation courses, focusing on the early years of training, and advanced courses, directed at the later years of training and young radiologists. Each programme is structured in lecture series and interactive case discussions (workshops), assigned to internationally renowned European faculties. Every course is held in English and is accompanied by a self-assessment test. CME accreditation of the programmes and evaluation of performances of both trainers and trainees are integral features of this project. In 2008 five foundation and four advanced courses have been organised covering topics across the modalities reaching a total number of 565 participants from 34 countries.

GALEN Foundation Courses

In 2008 five courses aimed at residents in their 1st, 2nd or 3rd year of training in radiology and primarily assigned to the geographic area of South Central Europe were held in co-operation with GE Healthcare Medical Diagnostics South Central Europe. Topics included Abdominal/Genito-Urinary Radiology, Chest/Cardiovascular Radiology, Neuro/Musculoskeletal Radiology, Oncologic Imaging, and Paediatric Radiology. The programme was structured in organ-oriented lectures, interactive case discussions (workshops) and a self-assessment test. A short pre-course session, supplementing the programme, with nationally acclaimed lecturers, was also incorporated. The courses were attended by 338 participants from 18 countries, mainly throughout south, central and east Europe.

GALEN Advanced Courses

The advanced courses were launched in 2008 to complement the existing foundation courses and to offer a similar course structure to residents in their 4th or 5th year of training, and radiologists who have recently finished their training and who desire a comprehensive review of diagnostic radiology. Four courses were organised in partnership with GE Healthcare, focused on recent advances in cross-sectional imaging including Cardiac, Women's, Abdominal and Musculoskeletal Radiology. The programme was structured similarly to the foundation courses and included comprehensive lectures, interactive case discussions (workshops) and a self-assessment test. The courses were attended by 227 participants from 30 countries.

GALEN Foundation Courses

Abdominal/Genito-Urinary Radiology

Alexandroupolis/GR, May 16–18, 2008

Local Organiser:

P. Prassopoulos, Alexandroupolis/GR

Topics and Faculty:

Imaging of kidney tumours

K. Tsampoulas, Ioannina/GR

MR imaging of ovarian and uterine pathology

A. Oikonomou, Alexandroupolis/GR

Distinguishing malignant and benign hypervascular focal liver lesions

S. Yarmenitis, Iraklion/GR

Acute abdomen

B. Marincek, Zurich/CH

Focal liver lesions

G. Brancatelli, Palermo/IT

Cirrhosis and hepatocellular carcinoma

S. Efremidis, Ioannina/GR

Diseases of the biliary system

M.A. Bali, Brussels/BE

Acute and chronic pancreatitis

T. Helmberger, Lübeck/DE

Primary small bowel malignancies

N. Gourtsoyannis, Iraklion/GR

Urinary tract: obstruction and infection

R. Pozzi Mucelli, Verona/IT

Problem-solving gynaecologic cancer imaging

R. Reznik, London/UK

Paediatric uro radiology

M. Riccabona, Graz/AT

Number of participants: 67

Country statistics:

Bulgaria 5, Egypt 1, Greece 47, Hungary 3, Malta 2, Poland 2, Romania 2, Serbia 3, Sweden 2

Neuro/Musculoskeletal Radiology

Lublin/PL, June 27–29, 2008

Local Organiser:

M. Szczerbo-Trojanowska, Lublin/PL

Topics and Faculty:

Neuroradiology in dementia: from structural to molecular imaging

J. Walecki, Warszaw/PL

Imaging of degenerative diseases of the spine

M. Sasiadek, Wrocław/PL

Endovascular management of brain AVM

M. Szajner, Lublin/PL

Stroke

M. Thurnher, Vienna/AT

CNS injuries

I. Björkman-Burtscher, Lund/SE

CNS inflammatory diseases

J. Rusalleda, Barcelona/ES

CNS malignancies

E. Papadaki, Iraklion/GR

Inflammatory and infectious diseases of the musculoskeletal system

A. Cotten, Lille/FR

Non-neoplastic bone marrow disorders

A. Karantanas, Iraklion/GR

Imaging of articular cartilage: why, when and how?

K. Wörtler, Munich/DE

Arthrography: why, when and how?

J. Hodler, Zurich/CH

Imaging of sports injuries

M. Maas, Amsterdam/NL

Number of participants: 63

Country statistics:

Croatia 1, Czech Republic 1, Hungary 1, Malta 3, Poland 53, Romania 2, Sweden 2

GALEN Foundation Courses

Paediatric Radiology

Prague/CZ, September 5–7, 2008

Local Organiser:

J. Sprindrich, Prague/CZ

Topics and Faculty:

Ultrasound imaging of acquired brain lesions in neonates and infants

P. Elias, Hradec Králové/CZ

Ultrasonography of locomotor apparatus in children

J. Skotáková, Brno/CZ

Dextrocardia in children and abnormalities of visceral situs

S. Tuma, Prague/CZ

Skeletal infections and inflammatory disorders in children

G. Sebag, Paris/FR

Congenital malformations of the brain

A. Rossi, Genoa/IT

Pulmonary infections

C. Owens, London/UK

Imaging of the newborn: specific issues

V. Donoghue, Dublin/IE

Imaging the child with abdominal pain

F. Avni, Brussels/BE

UTI, a logical approach and current recommendations

M. Riccabona, Graz/AT

Foetal imaging: from A to Z

C. Garel, Paris/FR

Cross-sectional Imaging of the heart and great vessels: what and when to choose

N. Damry, Brussels/BE

Imaging of brain tumours in children

M. Argyropoulou, Ioannina/GR

Number of participants: 65

Country statistics:

Austria 1, Bosnia & Herzegovina 1, Bulgaria 3, Croatia 2, Czech Republic 19, Germany 1, Greece 1, Hungary 5, Poland 12, Romania 11, Serbia 2, Slovakia 3, Slovenia 1, Sweden 2, United Kingdom 1

Oncologic Imaging

Bucharest/RO, October 17–19, 2008

Local Organiser:

V. Ene, Bucharest/RO

Topics and Faculty:

Endovascular treatment in liver tumours

B. Popa, Bucharest/RO

Applications of ultrasound elastography in oncologic diagnosis

S. Dudea, Cluj-Napoca/RO

Imaging of children with retroperitoneal tumours

A. Santa, Sibiu/RO

Principles of M-staging

A. Palkó, Szeged/HU

ENT malignancies

R. Hermans, Leuven/BE

Lung cancer

J. Vilar, Valencia/ES

Solid and cystic pancreatic tumours

G. Morana, Treviso/IT

Renal and adrenal masses

C. Catalano, Rome/IT

Tumours of the upper GI tract and small bowel

M. Bellomi, Milan/IT

Colorectal cancer

A. Freeman, Cambridge/UK

Soft-tissue tumours

J. Gielen, Edegem/BE

Breast cancer

F. Pediconi, Rome/IT

Number of participants: 65

Country statistics:

Belgium 1, Poland 5, Romania 55, Slovakia 2, Sweden 2

GALEN Foundation Courses

Chest/Cardiovascular Radiology

Budapest, October 31–November 2, 2008

Local Organiser:

A. Palkó, Szeged/HU

Topics and Faculty:

Central venous access – role of imaging

V. Bérczi, Budapest/HU

CT and MR of congenital vascular disorders

G. Balazs, Budapest/HU

Lung anatomy and basic radiology-pathology correlation

K. Karlinger, Budapest/HU

Pulmonary infections

K. Malagari, Athens/GR

Interstitial lung diseases

T. Franquet, Barcelona/ES

Benign and malignant diseases of the pleura and chest wall

J. Verschakelen, Leuven/BE

Plain film and CT of the mediastinum and hilum: pitfalls vs disease

J. Cáceres, Barcelona/ES

Pulmonary vascular disease

B. Ghaye, Liège/BE

Chest imaging of the intensive care patient

R. Eibel, Schwerin/DE

Cardiac and pericardiac disease

C.R. Becker, Munich/DE

Thoracic aorta: degenerative and traumatic lesions

M. Szczerbo-Trojanowska, Lublin/PL

Aorto-iliac and lower extremity occlusive disease

G. Roditi, Glasgow/GB

Number of participants: 78

Country statistics:

Belgium 1, Croatia 1, Czech Republic 1, Greece 4,
Hungary 15, Malta 1, Poland 11, Romania 19,
Serbia 17, Slovakia 5, Slovenia 2, Sweden 1

GALEN Advanced Courses

Cardiac Cross-Sectional Imaging

Rome/IT, June 20–21, 2008

Local Organiser:

C. Catalano, Rome/IT

Topics and Faculty:

CT and MR anatomy of the heart and great vessels

F. Cademartini, Parma/IT

Congenital heart disease in children and adults (MR, CT)

M. Gutberlet, Berlin/DE

Valvular heart disease (MR, CT, Echo)

V. Sinitsyn, Moscow/RU

Myocardium perfusion and viability (MR, CT)

L. Natale, Rome/IT

Potential value of CT in the evaluation of acute chest pain

M. Oudkerk, Groningen/NL

Coronary artery disease (CT)

H. Alkadhi, Zurich/CH

Evaluation of coronary stents and bypasses with CT angiography

M. Francone, Rome/IT

Diseases of the pulmonary arteries and thoracic aorta (CT, MR)

J. Bremerich, Basel/CH

Coronary calcium: imaging considerations and clinical implications (CT)

N. Mollet, Rotterdam/NL

Number of participants: 53

Country statistics:

Austria 5, Belgium 1, Bulgaria 5, Croatia 2, Czech Republic 1, Greece 2, Italy 29, Portugal 1, Romania 2, Slovakia 1, Spain 1, Turkey 1, United Kingdom 2

Women's Cross-Sectional Imaging

Berlin/DE, July 4–5, 2008

Local Organiser:

B. Hamm, Berlin/DE

Topics and Faculty:

Integrate anatomy (US, CT, PET/CT)

E. Sala, Cambridge/UK

Cancer of the cervix: primary staging and detection of cancer recurrence

B. Hamm, Berlin/DE

Cancer of the uterus

M.H. Fuchsjäger, Vienna/AT

Cancer of the ovary: relevance of imaging to patient management

R. Reznick, London/UK

Clinical aspects and treatment options in uterine fibroids

T. Kröncke, Berlin/DE

Radiologic-pathologic correlations of benign masses and invasive breast carcinomas

T. Tot, Falun/SE

Characterising breast lesions at mammography

G. Forrai, Budapest/HU

Advanced breast imaging: CAD, angio-mammography

C. Dromain, Villejuif/FR

Advanced breast imaging: MRI techniques for optimal diagnostic accuracy

G. Heinz, Vienna/AT

Number of participants: 42

Country statistics:

Belgium 1, Germany 23, Greece 2, Hungary 1, Ireland 1, Poland 6, Romania 2, Switzerland 2, Turkey 2, United Kingdom 2

GALEN Advanced Courses

Abdominal Cross-Sectional Imaging

Stockholm/SE, October 17–19, 2008

Local Organiser:

P. Aspelin, Stockholm/SE

Topics and Faculty:

How 64 MDCT works

M. Prokop, Utrecht/NL

MRI: technical innovations

N. Papanikolaou, Iraklion/GR

MDCT of the acute abdomen

P. Poletti, Geneva/CH

The liver: MRI or MDCT?

P. Ros, Barcelona/ES

The pancreas: MDCT or MRI?

C.D. Becker, Geneva/CH

Vascular diseases: evaluation with MDCT

M. Juchems, Ulm/DE

Small bowel: evaluation with MRI

N. Gourtsoyiannis, Iraklion/GR

Large bowel: virtual endoscopy

A. Laghi, Rome/IT

Anorectal diseases: evaluation with MRI

J. Stoker, Amsterdam/NL

Number of participants: 60

Country statistics:

Austria 2, Belgium 5, Bulgaria 1, Croatia 4, Czech Republic 2, Denmark 2, France 1, Germany 1, Hungary 2, Lithuania 5, Norway 4, Poland 2, Romania 2, Saudi Arabia 1, Serbia 1, Slovakia 2, Slovenia 1, Sweden 20, United Kingdom 2

Musculoskeletal Cross-Sectional Imaging

Amsterdam/NL, November 7–8, 2008

Local Organiser:

M. Maas, Amsterdam/NL

Topics and Faculty:

Degenerative disease of the knee and hip

B. Vandeberg, Brussels/BE

How to image bone tumours

H.J. van der Woude, Amsterdam/NL

Imaging of soft tissue lesions

F.M. Van Hoenacker, Leuven/BE

Applications of MSK Ultrasonography

C. Martinoli, Genoa/IT

MR arthrography of the shoulder

H.J. van der Woude, Amsterdam/NL

Cartilage defects: imaging, normal postoperative findings and signs of failure

C. Glaser, Munich/DE

Imaging of rheumatological disorders

F. Kainberger, Vienna/AT

MSK impingement syndromes

A. Kassarian, Madrid/ES

Image-guided MSK pain relief

A. Gangi, Strasbourg/FR

Number of participants: 72

Country statistics:

Belgium 7, Bosnia & Herzegovina 3, Croatia 2, Czech Republic 2, Estonia 1, Germany 2, Greece 4, Hungary 1, Lithuania 2, Norway 2, Poland 4, The Netherlands 29, Portugal 1, Russia 1, Saudi Arabia 1, Switzerland 1, Slovakia 2, Spain 1, Sweden 4, United Kingdom 2

School of MRI

Creating educational ties and partnerships with other societies in the broader domain of imaging is a key feature of the ESOR philosophy. One such partnership has been successfully built up with the European Society for Magnetic Resonance in Medicine and Biology (ESMRMB), thus avoiding unnecessary competition and providing better educational opportunities within the radiological community. In 2008 12 courses organised by the School of MRI, with a total of 616 participants from 76 countries, were included in the domain of ESOR activities. Grants were provided by Bayer Schering Pharma AG. The newly introduced course on Advanced MR Imaging in Paediatric Radiology was a great success, with a total of 59 participants (allowing 60 participants in total).

Course	Venue	Date	Number of participants
Applied MR Techniques, Basic Course	Basel/CH	May 22–24	51
Advanced Neuro Imaging: Diffusion, Perfusion, Spectroscopy	Bern/CH	May 29–31	58
Advanced MR Imaging of the Musculoskeletal System	Moscow/RU	July 3–5	61
Advanced Breast & Pelvis MR Imaging	Brussels/BE	September 4–6	62
Clinical fMRI - theory and practice	Heidelberg/DE	September 11–13	52
Advanced MR Imaging of the Abdomen	Verona/IT	September 18–20	44
Advanced Cardiac MR Imaging	Rome/IT	September 25–27	49
Advanced MR Imaging of the Musculoskeletal System	Vienna/AT	September 25–27	52
Applied MR Techniques, Advanced Course	Leuven/BE	October 16–18	40
Advanced Head & Neck MR Imaging	Prague/CZ	October 16–18	48
Advanced MR Imaging in Paediatric Radiology	Brussels/BE	November 6–8	58
Advanced MR Imaging of the Vascular System	Valencia/ES	November 13–15	41

European Courses of Neuroradiology

A further new cooperation has been built with the European Society of Neuroradiology (ESNR) and its European Courses of Neuroradiology (ECNR), which have become part of the educational activities of ESOR. In 2008 the 10th Cycle, which will include four courses until 2010 dedicated to diagnostic and interventional neuroradiology, started with a course on Embryology, Anatomy, Malformations and Genetics hosted in Tarragona, Spain. The course was attended by 165 Neuro-radiologists in training and board-certified neuroradiologists. This cooperation will certainly round off and enhance high level educational opportunities for European radiologists in training.

Course	Venue	Date	Number of participants
Embryology, Anatomy, Malformations and Genetics	Tarragona/ES	October 10–14	165

AIMS - Advanced Imaging Multimodality Seminars (China)

ESR and CSR successfully continued their common educational exchange programmes in China. The six seminars held in 2008 attracted more than 600 radiologists from all over China. Lectures and case-based reviews were given on chest, musculoskeletal, abdominal and urogenital radiology by Chinese and European speakers. In partnership with Bracco a number of major destinations could be reached, including Beijing, Shanghai, Changsha, Dalian, Hangzhou and Chengdu. Due to this great success the seminars will be continued until at least 2011.

Chest and Musculoskeletal Radiology

Beijing – Changsha – Dalian, April 10–14, 2008

CSR representative:

J. Qi, Tianjing/CN

ESR/ESOR representative:

M.F. Reiser, Munich/DE

Local chairmen:

C. Zhou, Beijing/CN (Beijing seminar)

J. Qi, Tianjing/CN (Changsha and Dalian seminars)

Topics and Faculty:

Case-based review: differentiation of lung diseases

D. Ma, Beijing/CN (Beijing seminar)

X. Xiao, Shanghai/CN (Changsha seminar)

J. Wu, Dalian/CN (Dalian seminar)

Case-based review: differentiation of spinal diseases

H. Qu, Beijing/CN (speaking in Beijing and Changsha)

S. Wang, Dalian/CN (speaking in Dalian)

Interstitial lung disease

C. Schaefer-Prokop, Amsterdam/NL

Differential diagnosis of degenerative alterations of the spine using radiography, MDCT and MRI

M.F. Reiser, Munich/DE

Airways diseases of the lung

J. Verschakelen, Leuven/BE

Abdominal and Urogenital Radiology

Shanghai – Hangzhou – Chengdu, July 20–24, 2008

CSR representatives:

J. Qi, Tianjing/CN

K. Chen, Shanghai/CN

ESR/ESOR representative:

N. Gourtsoyannis, Heraklion/GR

Local chairmen:

X. Feng, Shanghai/CN

S. Zhang, Hangzhou/CN

X. Zhou, Chengdu/CN

Topics and Faculty:

Case-based review: Differentiated diagnosis for abdominal disease

J. Lu, Shanghai/CN (Shanghai seminars)

Case-based review: differentiation of duodenal periampullae lesions

S. Zhang, Hangzhou/CN

(Shanghai and Hangzhou seminars)

Case-based review: differentiated diagnosis for cystic renal lesions

M. Zeng, Shanghai/CN (Hangzhou seminar)

Case-based review: acute pancreatitis and hernia disease

P. Min, Chengdu/CN (Chengdu seminar)

Case-based review: the imaging differential diagnosis of pelvic masses

B. Song, Chengdu/CN (Chengdu seminar)

The liver: MRI or MDCT?

C. Bartolozzi, Pisa/IT

The pancreas: MDCT or MRI?

C. Matos, Brussels/BE

Renal tumours: multimodality approach

R. Pozzi Mucelli, Verona/IT

Visiting Scholarship Programme

The ESOR Visiting Scholarship Programme aroused enormous interest amongst residents in their 3rd, 4th or 5th year of training in radiology, who were keen to benefit from mentored modular training of a specific subspecialty topic in Radiology. Three times as many applications were received than the year before. Therefore, ESR decided to increase the number of available scholarships to 24, of which 22 were given to European residents and 2 to residents from outside Europe. The programme was successfully realised in partnership with Bracco and with a number of volunteering major European reference training centres. Scholars received three months of structured, modular introduction to the chosen subspecialty. They were given the opportunity to choose from a list of reference centres in Europe and to benefit from a tailored programme led by an assigned tutor. Each scholar received a grant to cover travel, accommodation and subsistence costs. The training itself was offered for free by the training centres.

Topics:

Breast Imaging
Cardiac Imaging
Musculoskeletal Radiology
Neuroradiology/Head and Neck Radiology,
Oncologic Imaging
Urogenital Radiology
MRI Protocols
Multidetector CT Protocols

ESOR is delighted to present the 2008 participants of the visiting scholarship programme and their comments on their experiences:



Miraude Adriaensen

Meander Medical Center, Amersfoort/NL

Topic: Musculoskeletal Radiology

Training Centre: Mater Misericordiae Hospital, Dublin/IE

As part of the ESOR visiting scholarships programme 2008 I had the opportunity to be trained in musculoskeletal radiology by Dr. Eion Kavanagh and Professor Steven Eustace in Dublin from September to December. Training was provided in three different hospitals: the Mater Misericordiae Hospital (i.e. the university hospital), Cappagh National Orthopaedic Hospital (i.e. Ireland's major centre for elective orthopaedic surgery), and the Sports Surgery Clinic (a leading international centre for the treatment of sports and exercise related injuries). Besides reading musculoskeletal MRIs and performing musculoskeletal US, I received helpful practical advice, interesting cases to set up my own musculoskeletal teaching file, book recommendations for my spare time, and we worked on abstracts for the upcoming ESSR meeting. Furthermore, living in a different country is always a personal enrichment. So I would like to thank everyone who made it possible for me to spend these three unforgettable months in Dublin.

Visiting Scholarship Programme 2008

My experience

Daniela Baca

Spitalul Universitar de Urgenta, Bucharest/RO
Topic: Musculoskeletal Radiology
Training Centre: University Hospital of Strasbourg/FR



The opportunity of being part of ESOR visiting scholarships programme 2008 at University Hospital of Strasbourg gave me the chance to become familiar with musculoskeletal diagnostics, investigations and interventional procedures. The skills I have gained during my training will be very precious in my experience as radiologist and for that I would like to thank ESR and Bracco for their support. I wish to acknowledge Professor Afshin Gangi and each person I met during my stay in Strasbourg for sharing their experience and ideas, and taking good care of me so generously. While working with Professor Gangi's team for these three months I had the possibility to observe and learn from a variety of cases to develop professional attitudes. Nevertheless, also living in the European Union's capital has been a positive intercultural experience in itself. Being confident of the ESOR visiting scholarship programme continuance I can recommend this programme to all my fellow residents.

Anvita Bieza

Stradins University, Riga/LV
Topic: Neuroradiology/Head and Neck
Training Centre: Addenbrooke's Hospital, Cambridge/UK



I remember the time before arriving in Cambridge and now I can say my expectations have been fulfilled, even more. I spent three months with professional neuroradiologists, followed them in daily work in CT and MR reporting, as well as attended multi discipline team meetings, theoretical lectures and tutorials. I was amazed to see such close collaboration between radiologist and clinicians – neurologists, neurosurgeons, endocrinologist and other specialists, especially discussion with pathologists. Thanks to ESOR for the opportunity to do this scholarship! And many thanks to the University of Cambridge, Department of Radiology at Addenbrooke's Hospital for aiding my further professional development!

Visiting Scholarship Programme 2008

My experience



Lorenzo Cereser

University of Udine/IT

Topic: MRI Protocols

Training Centre: Hôpital Erasme, Brussels/BE

The ESOR scholarship at Hôpital Erasme in Brussels gave me the unique opportunity of working side by side with Dr. Celso Matos and his staff, being involved in the activity of the MR division in a rigorous and precise way, but always in a friendly and enthusiastic atmosphere. I have learnt how important it is to know potentialities and pitfalls of each step of a body MR examination, in order to tailor the technical parameters to the specific patient and to the clinical problem. I experienced a great interdisciplinary group for the study of pancreas, composed by radiologists, gastroenterologists, surgeons and pathologists. I really think my expectations have been completely fulfilled, and I believe such a challenging experience will significantly improve my every-day clinical and research practice.



Kabilan Chokkappan

Madras Medical College, Chennai/IN

Topic: Neuroradiology/Head and Neck

Training Centre: Hôpital Robert Debré, Paris/FR

Knowledge is multiplied and everlasting only when it is being shared with others. The European School of Radiology made me understand this fact by giving this superb opportunity. Thanks to ESOR for this excellent chance to get to know what is the most and best of radiology. This intercontinental trip helped me a lot in improving not only in advances of imaging but also in understanding basic radiological principles. I am grateful to Dr. Elmaleh, Professor Sebag and their staff for their tremendous support. Million thanks to ESR & Bracco who made my dream come true.



Maria Lourdes Diaz

Clinica Universitaria de Navarra, Pamplona/ES

Topic: Oncologic Imaging

Training Centre: Mater Misericordiae Hospital, Dublin/IE

With the generous support of ESOR and the collaboration of the Mater Misericordiae Hospital I was able to spend some time in Dublin as a visiting training radiologist. Coming from a familiar hospital in Pamplona (Spain), I suddenly found myself in a foreign country, struggling to survive in a large and hectic hospital. However, my experience was great. I worked in a friendly environment with interesting people who demonstrated excellent professional skills. I also had the opportunity to learn from the many positive aspects of the Irish culture and ways of doing things.

Visiting Scholarship Programme 2008

My experience

Allina Dimopoulou

Academical Hospital, Uppsala/SE

Topic: Neuroradiology/Head and Neck

Training Centre: Barts and The London NHS Trust, London/UK



The three months of my ESOR scholarship in Neuroradiology/Head and Neck in two London hospitals, are a milestone and a turning point in my professional career, but also on a personal level. The training received has definitely made me a better radiologist, more knowledgeable and broad-minded. It was highly educative and instructive to experience at first hand a different health care system organisation, and a superbly trained and demanding environment. I did get a glimpse of how it is to really excel at something. I will be forever grateful to ESOR for giving me that opportunity and to Dr. Polly Richards for supervising me.

Sofia Gourtsoyianni

University Hospital of Crete, Iraklion/GR

Topic: Oncologic Imaging

Training Centre: Barts and The London NHS Trust, London/UK



The ESOR visiting scholarship offered me the great opportunity to spend three months in the section of Oncologic Imaging at the prestigious Department of Radiology at Barts and the London. There I had the privilege of entering and following a well-structured, modular training programme, focused on urogenital malignancies, comprising of daily alternating reporting sessions involving all different applicable modalities used for oncologic imaging, including PET CT, which was a totally new experience for me. I was fortunate to be mentored by a superb team of renowned radiologists in the field, led and supervised by Professor Rodney Reznek. I benefited greatly by daily attending several multidisciplinary meetings, during which I obtained a much broader view of clinical radiology practice in oncology. I am most grateful to my tutors and to the ESOR scholarship programme. I will certainly recommend and encourage my fellow residents to apply for such a fulfilling education experience.

Visiting Scholarship Programme 2008

My experience



Anush Hambarzumyan

Yerevan State Medical University, Yerevan/AM

Topic: Neuroradiology/Head and Neck

Training Centre: Chu de Montpellier/FR

I was very happy to be selected to participate in the ESOR visiting scholarship programme and to spend three months in a neuroradiology department. It was a wonderful experience to see CT and MRI routine examinations, to learn about the protocols, different techniques- MRI diffusion, MRI perfusion, organisation of the department work, and to make contacts with radiologists and young colleagues. As much as our healthcare system is different from European, although we are trying to integrate now, it was very useful not only to learn neuroradiology but also to see from the organisational point of view how the work in the department is organised, on a daily basis. I would like to thank Professor Alain Bonafe and his staff for the warm welcome in the department. This ESOR programme is a wonderful initiative and I now realise how much I learned and how much experience I have gained during these three months.



Angeliki Karatasiou

G. Gennimatas State General Hospital, Athens/GR

Topic: Breast Imaging

Training Centre: La Sapienza University of Rome/IT

On the announcement of my acceptance to the ESOR visiting scholarship programme I felt very honoured, but was reluctant to leave home since it meant being away from my two young children. Now that I have returned, all I can say is that these three months of training have been an unforgettable experience. I had the privilege to work in a dedicated breast imaging department and to participate daily in mammography, ultrasound and MRI exams as well as ultrasound guided biopsies. My assigned tutor, Dr. Federica Pediconi is a gifted young colleague, highly acknowledged in the field of breast imaging and I was very fortunate to observe her diagnostic and interventional skills. The invaluable knowledge gained as well as the opportunity to live in the magnificent city of Rome, made this visit more than I ever expected. I positively recommend this programme to all radiologists in training.

Visiting Scholarship Programme 2008

My experience

Daniel Knap

University Medical Centre, Katowice/PL

Topic: MRI Protocols

Training Centre: University Medical Center, Groningen/NL



It was a great pleasure for me to have participated in the ESOR visiting scholarship programme. I am very grateful to ESR and the training centre, especially Professor Paul Sijens, for the support to continue my education in radiology. I conducted research with novel software that segments and computes the MRI brain volume in multiple sclerosis patients. I was able to undertake and understand MRI advanced techniques and imaging protocols. I also took part in MRI morning meetings with physicians from the clinic. Now I have a general view of the Netherlands medical education and advanced healthcare system. I have learned a lot and I think it will improve my work and my radiological reports. My scholarship has been a productive time as well as a helpful hint for my further professional development in MRI. I have gained new theoretical and practical experience during the training period.

Maria Kuzarova

Faculty Hospital, Brno/CZ

Topic: Multidetector CT Protocols

Training Centre: Medical University of Vienna/AT



The ESOR visiting scholarship programme was a great opportunity for me to improve my skills and to learn something new in the field of computed tomography. During my stay I had a chance to actively participate at CT examinations, and to analyse and discuss many interesting cases. I assisted with revisions of CT protocols according to the newest literature findings with special focus on radiation dosages. I also received basic training in advanced CT techniques such as virtual colonoscopy. The training allowed me to broaden my knowledge about multi-detector CT indications, applications, protocols and my skills in CT image post-processing. I would like to thank Professor Christian Herold for the unique opportunity to spend three months at his department, and my supervisor Dr. Helmut Ringl and the skillful team of consultants for their patience and hospitality during my stay. I would like to thank them, that despite their busy work schedule they found the time to share their experiences and knowledge with me.

Visiting Scholarship Programme 2008

My experience



Zsuzsanna M. Lénárd

Semmelweis University, Budapest/HU
Topic: Neuroradiology/Head and Neck
Training Centre: Hospital de Sant Pau, Barcelona/ES

The three months I spent at Hospital de Sant Pau became an invaluable period of my residency training. It both improved my neuroradiology knowledge and helped me to get insight into the medical education of a prestigious university in this intellectually stimulating city. Beside daily clinical work in the emergency CT and 3T MRI unit, I could also take part in the multidisciplinary meetings held daily for radiology residents. I would like to thank all the Barcelonese radiologists I worked with for their excellent teaching and ESOR for giving me this opportunity.



Suat-Jin Lu

National University Hospital, Singapore/SG
Topic: Urogenital Radiology
Training Centre: Addenbrooke's Hospital, Cambridge/UK

The ESOR scholarship provided a rare opportunity for me to train at Addenbrooke's Hospital, a reputable centre in clinical care and research. I would like to convey my gratitude to Professor Adrian Dixon, Dr. Evis Sala and Mrs. Jackie Green for their dedication and time. I benefited from the comprehensive training and teaching programme as well as the impressive clinical-radiological meetings and multi-disciplinary team meetings. In addition, I benefited from training not just in urogenital radiology but also in the other radiology subspecialties and nuclear medicine. I would like to thank Dr. Balan, Dr. Cheow and Dr. Dutton from nuclear medicine for their time and dedication. The ESOR visiting scholarship at Addenbrooke's Hospital had exceeded my expectations in many ways and I highly recommend it to radiology residents. Finally, I would like to express my gratitude and thanks to ESOR and Addenbrooke's Hospital for giving me this honour and privilege.



Karolina Markiet

Medical University of Gdansk/PL
Topic: Urogenital Radiology
Training Centre: Policlinico Universitario Tor Vergata, Rome/IT

The ESOR visiting scholarship allowed me to check, confront and widen my knowledge not only in the field of urogenital radiology, but due to the clinical profile of the department also in oncological and neuroimaging as well. Moreover I had a chance to observe and take part in reporting PET/CT examinations, as well as to get closer to the rapidly developing cardiac MDCT imaging. During my stay I also participated in the Endovascular Procedures Course ICEP 2008. I found this experience most encouraging, as it created an opportunity not only to gain medical knowledge and experience but also required a closer look into my needs, goals and future possibilities.

Visiting Scholarship Programme 2008

My experience

Ana-Maria Maxim

County University Hospital, Timisoara/RO
Topic: Multidetector CT Protocols
Training Centre: Medical University, Innsbruck/AT



My scholarship was like a dream come true. I met not only a high level professional team, but also people who like to share their knowledge and experience. The combination between state-of-the-art technology, high quality and high quantity professional knowledge was my chance to fulfil all my learning expectations. I had the honour to meet Professor Werner Jaschke and to learn from his great professional knowledge and experience. He guided me with kindness through all my training, together with Dr. M. Rieger and Dr. M. Freund. I was pleased to learn multiple applications regarding MDCT. It was so useful and interesting to participate in morning radiology conferences and in afternoon clinical conferences. I am very grateful for all imaging art and science models the department shared with me.

Nikoloz Onashvili

Research Institute of Clinical Medicine, Tbilisi/GE
Topic: Cardiac Imaging
Training Centre: Medical University of Vienna/AT



It was a great honour for me to become an ESOR visiting scholar, which gave me an excellent opportunity to spend a memorable three months. I am very grateful to ESOR and my tutors at the AKH. Professor Christian Loewe organised my training very well. I interpreted over 350 cardiac CTA cases. Besides, I began working at scientific research topic. Ultimately, I have acquired very valuable experience with which I am able to do cardiac CTs independently. In addition it was really great pleasure for me to interact with the staff of the department of radiology, which will have its future continuation.

Emel Onur

Dokuz Eylul University Hospital, Izmir/TR
Topic: Cardiac Imaging
Training Centre: Erasmus MC, Rotterdam/NL



My ESOR scholarship opened up a new vision for me in education, specifically in the area of cardiac imaging. I am very happy to have spent three months at Erasmus MC, where advanced scientific research is being carried out. It was also an excellent hospital to experience radiology in practice. The training was very fruitful for me. I attended cardiac imaging activities and enhanced my technical knowledge especially in dual-source CT. I would like to express my deepest gratitude to the organisers of the ESOR scholarship programme. I believe that this programme enhances the scientific and practical skills of young radiologists and I wish that it will spread out more in the future.

Visiting Scholarship Programme 2008

My experience



Raluca Pegza

Coltea Clinical Hospital, Bucharest/RO
Topic: Oncologic Imaging
Training Centre: Pitie-Salpetriere, Paris/FR

The ESOR visiting scholarship was an amazing opportunity for me as a young radiologist. During these three months of training in the prestigious Pitié-Salpêtrière Hospital I have improved my knowledge in ultrasound technique, in MRI and multi-detector CT applications and explorations protocols. I was involved in multidisciplinary meetings and also had the chance to attend the Congress of the French Society of Radiology (JFR 2008). I would like to thank Professor Philippe Grenier and his team of radiologists with Dr. Olivier Lucidarme, Dr. Catherine Beigelman and Dr. Jean-Paul Akakpo for their entire support.



Katja Pinker

Medical University of Vienna/AT
Topic: Breast Imaging
Training Centre: Barts and The London NHS Trust, London/UK

During my scholarship I gained precious experience in state-of-the-art breast imaging. I participated in breast screen-reading sessions and arbitration meetings obtaining valuable experience, and I had the chance to visit the National Breast Screening Training Centre at King's College Hospital during a weekly attachment. I attended symptomatic and screening assessment clinics where I observed numerous interventional diagnostic procedures and had the chance to discuss each case in detail, and to compare the histological results to the imaging findings, thus improving my understanding of breast cancer. I participated in a weekly multi-disciplinary meeting involving radiologists, surgeons, gynaecologists, radiotherapists and pathologists, enabling me to acquaint myself with multidisciplinary cooperation of the highest quality and to realise its key role in the treatment of patients with breast cancer. In conclusion, I found scholarship a lifetime experience and I can only recommend this valuable experience to any young radiologist.



Sara Seitun

University Hospital of Genoa/IT
Topic: Cardiac Imaging
Training Centre: University Hospital, Zurich/CH

I am really proud to have been part of the ESOR visiting scholarship programme. I would like to thank Professor Borut Marinček, my supervisor Dr. Hatem Alkadhi and the entire radiology department team for their expertise and skill in this innovative field. I am grateful for their outstanding teaching and continuous support during my internship. I truly enjoyed the training in cardiac-CT using the Dual Source CT scanner. I was given the opportunity to undertake some complementary training in cardiac perfusion MRI and I even got to collaborate on a research project. I think that this internship at one of the most respected and highly specialised radiology departments in Europe gave me a better understanding of the department organisation and level of expertise at which I aspire to.

Visiting Scholarship Programme 2008

My experience

Ana Silva

Unidade Local de Saude, Matosinhos/PT
Topic: Breast Imaging
Training Centre: Addenbrooke's Hospital, Cambridge/UK



Thanks to ESOR and ESR for organising the programme and for carefully selecting the most prestigious hospitals that guarantee the best education in the different imaging modalities. In my case it was breast imaging. This experience was one of the most rewarding so far as I had the unique opportunity of working in an extraordinary place with extremely competent and devoted professionals. This scholarship also provided an opportunity to verify in practice the operability of a breast unit devoted to a national programme of cancer screening and to symptomatic clinic. It was a singular experience to see the multiple disciplines of radiology, surgery and pathology working on behalf of the health of a population.

Matej Vrabec

University Clinical Center, Ljubljana/SI
Topic: Neuroradiology/Head and Neck
Training Centre: UZ Leuven, Belgium



My stay at University Hospital Leuven was very well organised. On the first day I got a user account on the hospital PACS/HIS system and was able to use a diagnostic workstation to look at the daily cases on my own and afterwards discuss the findings with the supervisors – Prof. P. Demaerel, Prof. S. Sunaert, Prof. G. Wilms for neuroradiology and Prof. R. Hermans for head and neck radiology. A great teaching method was to look at Prof. Hermans' collection of over 400 cases on the PACS being able to compare my findings with the original report, follow-up imaging, surgical and pathology information. These three months of education in Leuven have been one of the most productive in my career. I am very grateful to my teachers, the ESOR team and sponsors for providing me this excellent opportunity to expand my knowledge.

Marius Wick

Medical University, Innsbruck/AT
Topic: Musculoskeletal Radiology
Training Centre: Barts and The London NHS Trust, London/UK

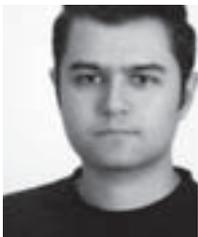


The scholarship has been a great opportunity to intensify my knowledge and practical skills in both routine diagnosis and radiologically-guided interventions in disorders of the musculoskeletal system. My tutor, Dr. Muaaze Ahmad, organised an interesting and diverse schedule during the whole three month training period. My expectations in this scholarship were more than fulfilled. From my personal experience, I can now only strongly encourage every young resident to apply for the ESOR visiting scholarship programme.

Exchange Programme for Cardiac Imaging Fellowship

Similar to the scholarship programme, there was much interest in the advanced Exchange Programme for Cardiac Imaging Fellowship, organised in partnership with ESCR, the European Society of Cardiac Radiology. The programme was aimed at residents in their 4th or 5th year of training in radiology and recently board-certified radiologists who wish to become subspecialist radiologists. Nine radiologists benefited from this programme and were provided with two months of intense subspecialty training in cardiac imaging. Each trainee received a grant to cover travel, accommodation and subsistence costs. The training itself was offered for free by the training centres. At the conclusion of the programme, a survey among the fellows resulted in very positive feedback encouraging ESR/ESOR and ESCR to continue this successful project and to even extend the duration of the training from two to three months in 2009.

ESOR is delighted to present the 2008 participants of the exchange programme for cardiac imaging fellowship and their comments on their experiences:



Mustafa Baris

Dokuz Eylul University Hospital, Izmir/TR
Training Centre: Medical University of Vienna/AT

I spent two excellent months at AKH in Vienna and I would like to thank Christian Loewe and Dr. Florian Wolf for their hospitality and support to my education. I had the possibility to see and evaluate over 300 cardiac CTA cases and some cardiac MR cases. I was given the opportunity to attend residents' education meetings and meetings of the department. This fellowship programme broadened my horizons and improved my skills as a radiologist and I am planning to continue working with cardiac imaging in my department. As a result, these kinds of education programmes support great opportunities for people who want to improve and learn in different fields. I am very happy to have been part of this programme and that I finished it with success.

Exchange Programme for Cardiac Imaging Fellowship 2008

My experience



Konstantin Kalugin

Regional Clinical Center, Stavropol/RU
Training Centre: Cardiology Research Center, Moscow/RU

I am very grateful to ESR and ESCR for the opportunity to receive training in cardiac imaging. During two months, Professor Valentin Sinitsyn supervised me, and radiologists of the tomography department (Dr. I. Fedotenkov, O. Stukalova and others) contributed a lot to my training. On a daily basis I performed cardiac CT and MRI image processing using dedicated workstations. I have gained new knowledge and practical skills in coronary and cardiac CT, CT-angiography, CT-angiopulmography, cardiac and vascular MRI. I am sure that the acquired knowledge and skills will be very useful in my future practice.



Menka Lazareska

Institute of Radiology, Skopje/MK
Training Centre: University La Sapienza, Rome/IT

This training improved my understanding of cardio-vascular imaging techniques and their appropriate applications. I acquired knowledge of advanced tools and was able to perform and interpret different examinations that focused on the field of cardio-vascular and body imaging. It has been a positive and enhancing experience for me and I am sure that all knowledge acquired during my stay will be exceptionally useful in my professional future and for active application in my daily work at my institution. I would like to congratulate and thank ESR/ESOR and ESCR for creating this programme. It offers an interesting opportunity to improve residents' trainings with the support of European references training centres.



Dimitra Loggitsi

University of Athens/GR
Training Centre: University of Bangor, Gwynedd/UK

During my training I had the opportunity to get actively involved not only in CT and MR cardiac examinations performed in the radiology department, but I also spent time attending cardiac ultrasound, nuclear cardiac exams, as well as diagnostic and interventional procedures at the catheterisation lab. I am grateful to Professor Michael R. Rees who insisted on the multimodality approach of cardiac imaging and spent many hours tutoring me, primarily from a clinical point of view. This programme had a great impact in my radiological way of thinking and broadened my horizons.

Exchange Programme for Cardiac Imaging Fellowship 2008

My experience



Assia Litcheva Gueorguieva

Hospital Clinico San Carlos, Madrid/ES
Training Centre: University Medical Center, Groningen/NL

It was a great opportunity for me to take part in this ESR and ESCR programme. I am very grateful to Professor M. Oudkerk and his team for hosting the fellowship and for the friendly work approach.

My visit was perfectly organised with the intention of making the most of it. It included tutorials about the MRI and DSCT techniques and protocols applied in cardiac radiology. I interpreted the obligatory 100 cardiac CT and MRI exams and reviewed as well the cardiac MRI and CT studies performed during each week under the supervision of the expert radiologist. I had the opportunity to collaborate on a research project and as a part of it I reviewed 40 more cardiac CT exams. This fellowship allowed me to broaden my knowledge on cardiac CT and MRI applications, protocols and image post-processing tools. It made me very enthusiastic in performing the best radiological practices and in developing new ideas and research.



Nuno Ribeiro da Costa

Hospital de Santa Marta, Lisbon/PT
Training Centre: Ludwig Maximilians University, Munich/DE

Following the opportunity provided by ESR and ESCR I attended this programme in the prestigious department of radiology at Klinikum Großhadern of the Ludwig Maximilians University of Munich, led by Professor Maximilian Reiser. I was devoted to the study of CT and MR always accompanied by specialists in cardiac imaging and I learned the main applications and limitations of these imaging methods. The advantage of CT coronary angiography in the exclusion or diagnosis of coronary artery disease was emphasised. The use of CT in an emergency setting using the chest-pain and triple-rule out protocols offers the ability to exclude, in a non-invasive manner, life threatening disease such as pulmonary embolism, aortic dissection and/or acute coronary syndrome, with a single examination. On the other hand, cardiac MR is used for evaluation of myocardial viability, congenital heart disease, myocardial function and myocardial masses. This experience helped me to broaden my horizons in this area giving me the tools needed for my daily work.

Exchange Programme for Cardiac Imaging Fellowship 2008

My experience

Milena Spirovski

Oncology Institute of Vojvodina, Sremska Kamenica/RS
Training Centre: University of Basel/CH



This programme immensely improved both my theoretical knowledge and my practical skills. I actively took part in evaluation of daily cardiac exams, and also had an opportunity to evaluate cardiac exams from previous months from PACS by myself, before discussing them with my mentor. Two times a week we had meetings with cardiologists where cardiac cases were discussed. I was able to attend educational meetings for residents every day, which I found very useful, and I had the opportunity to attend several educational courses. I would like to thank my mentor, Professor Bremerich and also Professor Zellweger from the cardiology department for teaching me. My expectations were completely fulfilled.

Oliver Springer

Kantonsspital Aarau/CH
Training Centre: University of Leipzig/DE



I would like underline the enormous impact of this programme on my personal understanding of state-of-the-art cardiac imaging. Thanks to Professor M. Gutberlet and his experienced staff, from whom I not only gained profound background knowledge of cardiac CT / MRI but also a tremendous amount of practical work experience with both modalities. During my fellowship I was also invited to join all interdisciplinary conferences and particularly enjoyed the joint case discussions with the cardiologists or paediatric cardiologists. I am assured to start cardiac MRI and CT imaging at Kantonsspital Aarau already in January 2009.

Ajay Varghese

Guys and St. Thomas' Hospitals NHS Trust, London/UK
Training Centre: University Medical Center, Leiden/NL



This programme turned out to be one of my most fruitful learning experiences in radiology. Not only did I get to take an active part in routine cardiac CT and MRI reporting, the time spent learning from radiographers, physicists and research scholars deserve special mention. During the two months I reviewed well over 100 cases. The attachment itself was well organised by Professor Albert de Roos and Dr. Lucia Kroft. A very active role was taken by the cardiac imaging fellows and secretarial staff. I look forward to putting what I learned into practice soon. Leiden is a beautiful town and centre for learning with a bustling student community. All in all I thank ESOR, ESCR and ESR for organising such an attachment and the LUMC staff for making it a reality.

Tutorials

The established ESOR Graz Tutorials (former EAR tutorials), supported by grants from AGFA and Siemens, were held twice in 2008. The 31st tutorial took place from June 30 to July 11, and the 32nd tutorial was held from September 8 to 19. Both tutorials were organised by the University Clinic of Radiology of the Medical University of Graz, under the leadership of R. Rienmüller. The programme was intended to further develop the experience of young radiologists, residents in their 4th or 5th year of training and board-certified radiologists in the daily radiological routine, through exchange, and to offer broad theoretical knowledge on diagnostic and technical aspects, healthcare systems, hospital organisation and quality assurance. Altogether 43 residents and board-certified radiologists from former attended the tutorials.

Virtual School

In 2008 the GALEN Foundation Courses were recorded for the first time. Participants were afterwards provided with access to the video including powerpoint presentations of the lectures and the self-assessment tests. With this new e-learning tool participants were given the possibility to practise from home and to refresh the lessons learned during the course.

Programme preview 2009

In 2009 more partners are coming on board and ESOR is further expanding its activities. Additional features will include

- a) Exchange Programmes for Fellowships in partnership with ESGAR, ESHNR and ESPR
- b) Visiting Schools tailored for general radiologists and private practitioners in partnership with Euromedic
- c) Visiting Schools tailored to address the needs of continuing education in specific geographic areas, in partnership with Covidien
- d) The first visiting scholarship programme outside Europe in partnership with the Memorial Sloan-Kettering Cancer Centre, New York, USA
- e) One additional Graz Tutorial in partnership with Nycomed

For further information please visit www.myESR.org/esor.

Education in partnership



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ESOR OFFICE

Neutorgasse 9/2a, 1010 Vienna, Austria
Phone: +43 1 533 40 64, Fax: +43 1 535 70 37
info@esor.org
www.myESR.org/esor

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