



European Congress of Radiology

ECR 2017

VIENNA
MARCH 1-5

THE FLOWER GARDENS
of RADIOLOGY

PRELIMINARY PROGRAMME

**SPECIAL ISSUE FOR
RADIOGRAPHERS**

the annual meeting of

ESRF
EUROPEAN SOCIETY
OF RADIOLOGY



ECR 2017 will be a green meeting designed to meet environmental sustainability criteria set by the *Österreichisches Umweltzeichen* (Austria's national eco-friendly certificate).

The ECR is the annual meeting of the European Society of Radiology (ESR).

Thanks to the collaboration with the European Federation of Radiographer Societies (EFRS), the ECR can also be considered the annual meeting of radiographers in Europe.

COORDINATION

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Please note that sessions are marked with a logo to indicate their classification according to the European Training Curriculum.

LEVEL I First three years of training

LEVEL II Fourth and fifth years of training
(general radiologist standard)

LEVEL III Subspecialty training standard



European Congress of Radiology

ECR 2017

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THE FLOWER GARDENS
of RADIOLOGY

SUBMIT YOUR ABSTRACT

**Abstract Submission
Scientific Papers**

JULY 4–OCTOBER 15, 2016

**Poster Abstract Submission to EPOS™
(Electronic Presentation Online System)**

JULY 4–OCTOBER 15, 2016

**Student Abstract Submission
Scientific Papers**

JULY 4–OCTOBER 15, 2016

**Abstract Submission
Clinical Trials in Radiology**

JULY 4–DECEMBER 18, 2016

myESR.org

ECR 2017 TIMELINE

July 4 – October 15, 2016	Abstract Submission Scientific Papers
July 4 – October 15, 2016	Poster Abstract Submission to EPOS™ (Electronic Presentation Online System)
July 4 – October 15, 2016	Student Abstract Submission Scientific Papers
July 4 – October 15, 2016	Invest in the Youth Programme Application Open
July 4 – December 18, 2016	Abstract Submission Clinical Trials in Radiology
July 22 – December 12, 2016	MSK Manifestations of Systemic Disease (Case-Based Diagnosis Training) Submission
September 1, 2016	Online Registration Opens
August 16 – December 16, 2016	Poster Upload to EPOS™ (for Accepted Abstracts)
November 30, 2016	ESR Membership 2016 Final Application Deadline
December 2016	Notification of Paper Abstract Acceptance (Oral Presentations)
March 1–5, 2017	ECR 2017 (Wednesday to Sunday)

CONGRESS VENUE

Austria Center Vienna
Bruno Kreisky Platz 1
1220 Vienna, Austria

CONGRESS LANGUAGE

English

CME ACCREDITATION

Each ECR delegate has access to confirmation of all activities attended (CME confirmation and record of attendance). The maximum number of CME points will differ depending on your national jurisdiction.

For further information, please contact the ECR CME Support at cme@myESR.org

FACTS & FIGURES ECR 2016

- 25,998 Participants
- 5,927 registered ECR Live viewers
- 133 Countries
- 374 Scientific and Educational Sessions
- 2,763 Scientific and Educational Exhibits
- 1,393 Scientific Papers
- 320 Voice of EPOS Presentations
- 856 Invited Lectures
- Fully Electronic Scientific Exhibition
- 300 exhibitors, including national, international and subspecialty societies
- 26,000m² exhibition space

SCIENTIFIC AND EDUCATIONAL PROGRAMME

3 Honorary Lectures
4 ESR/EFRS meets Sessions
2 Image Interpretation Quizzes
3 New Horizons Sessions
3 State of the Art Symposia
19 Special Focus Sessions
10 Professional Challenges Sessions
4 Multidisciplinary Sessions
Joint Course of the ESR and RSNA
E³ - European Excellence in Education
E³ - Rising Stars Programme (for Residents & Students)
Basic Sessions & Joint Sessions with ESOR
(*European School of Radiology*)
Student Sessions
EFRS Radiographers' Basic Session
Case-Based Diagnosis Training
E³ - European Diploma Prep Sessions
E³ - The Beauty of Basic Knowledge
E³ - ECR Academies
E³ - ECR Master Classes
Pros & Cons Session
The Voice of EPOS Sessions
Clinical Trials in Radiology Sessions
Refresher Courses & Scientific Sessions
Radiology Trainees Forum - Highlighted Lectures
RTF Quiz
EIBIR Sessions (*European Institute for Biomedical Imaging Research*)
ESOR Session (*European School of Radiology*)
ESR Audit and Standards Subcommittee Session
ESR Patient Advisory Group Sessions
ESR Working Group on Ultrasound Sessions
ESR Working Group on Ultrasound and EFSUMB Session (*European Federation of Societies for Ultrasound in Medicine and Biology*)
European Radiology 25th Anniversary Session
EuroSafe Imaging Sessions
PIER Sessions (*Professional Issues and Economics in Radiology*)
ESHI Session (*European Society for Hybrid Medical Imaging*)
Joint Sessions with related societies
(EANM, EORTC, ERS, ESMRMB, ESTRO, UEMS)
EFOMP Workshop (*European Federation of Organisations for Medical Physics*)
EFRS Workshop (*European Federation of Radiographer Societies*)
Satellite Symposia & Industry Workshops

European Congress of Radiology

ECR 2017

ALL SESSIONS IN **ROOM K** WILL BE
SIMULTANEOUSLY TRANSLATED
INTO GERMAN, ITALIAN, POLISH,
AND SPANISH.

ALLE VORTRÄGE IN **RAUM K** WERDEN
SIMULTAN INS DEUTSCHE **ÜBERSETZT.**

TUTTE LE SESSIONI NELLA **SALA K**
SARANNO **TRADOTTE SIMULTANEAMENTE**
IN ITALIANO.

WSZYSTKIE WYKŁADY W **SALI K**
BĘDĄ **TŁUMACZONE SYMULTANICZNIE**
NA JĘZYK POLSKI.

TODAS LAS SESIONES DE LA **SALA K**
SE **TRADUCIRÁN SIMULTÁNEAMENTE**
AL ESPAÑOL.

VIENNA
MARCH 1-5

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the annual meeting of

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EUROPEAN SOCIETY
OF RADIOLOGY

REGISTRATION INFORMATION

REGISTRATION FEES (INCLUDING 10% VAT):

	Early Fee	Middle Fee	Late Fee
ESR Full Member	€470	€570	€695
ESR Allied Science Member	€590	€700	€910
ESR Corresponding Member	€590	€700	€910
Full Fee Non-Member	€790	€920	€995
Young Trainee Member	€295	€380	€500
Young Trainee Non-Member	€360	€450	€610
Radiographer Member	€220	€320	€460
Radiographer Non-Member	€320	€420	€570
Hospital Manager	€710	€860	€960
Nurse/Nurse Practitioner	€220	€320	€460
Student@ECR*	€50	€50	€50
Oral Presenter Member	-	€250	-
Participate from home**	-	€330	€330
Single Day Ticket (onsite only)	onsite only	onsite only	€315

REGISTRATION AS MEMBER

In order to qualify for reduced member registration fees for ECR 2017, ESR Membership for the year 2016 must have been settled and approved by August 31, 2016.

All other participants must register as non-members.

Please note that the ESR will not refund any registration fees once registration and payment have been completed, including in cases of subsequent ticket changes or membership-related changes.

***Students** under the age of 30, who do not yet have an academic degree, can register for just €50.

****Participate from home**

The registration category 'Participate from home' has been created for individuals who are NOT able to attend the congress in person but would still like their EPOS poster to be shown during and after the congress.

ECR REGISTRATION DEADLINES

Early Fee: September 1 – November 16, 2016

Middle Fee: November 17 – December 14, 2016

Late Fee: from December 15, 2016 onwards

CANCELLATION INSURANCE

The ESR offers all pre-registered participants the option of taking out a cancellation policy with our partner 'Europäische Reiseversicherung'. The insurance fee depends on the ticket selected and can **only be booked during online registration**. After completion of registration and/or payment, insurance can no longer be selected. The ESR itself will not refund any registration fees.

For further information please visit

www.myESR.org/registration2017 or contact registration@myESR.org

TIMETABLE

* ALL SESSIONS IN ROOM K will be simultaneously translated into GERMAN, ITALIAN, POLISH, AND SPANISH.

	08:30 9:00 09:30 10:00	10:30 11:00 11:30 12:00	12:15 13:00 13:30 14:00
Wednesday, March 1	Refresher Course RC 114 * E ³ - Rising Stars Programme Basic Session 1 1	E ³ - Rising Stars Programme Basic Session 2 2	Guest Lecture Breaking News from Latin America <i>Maria de Fátima Vasco Aragão; BR</i>
Thursday, March 2	Refresher Course RC 514 * E ³ - Rising Stars Programme Basic Session 5 5	E ³ - Rising Stars Programme Basic Session 6 EuroSafe Imaging Session 2 6	Wilhelm Conrad Röntgen Honorary Lecture <i>Mauricio Castillo; US</i>
Friday, March 3	Refresher Course RC 914 * EFOMP Workshop EF 1 9	EFOMP Workshop EF 2 Professional Issues and Economics in Radiology (PIER) 1 10	Josef Lissner Honorary Lecture <i>Mathias Prokop; NL</i> 10 years of ESOR
Saturday, March 4	Professional Challenges Session PC 13 * E ³ - Rising Stars Programme EFRS Radiographers' Basic Session 13	ESR Patient Advisory Group ESR-PAG 1 14	Arthur de Schepper Honorary Lecture <i>Fiona J. Gilbert; UK</i>
Sunday, March 5	Special Focus Session SF 17c * 17	E ³ - European Diploma Prep Session E³ 1823 18	E ³ - Rising Stars Programme Case-Based Diagnosis Training 1

The Voice of EPOS • in the EPOS™ Arena
 Wednesday – Friday: 09:00–16:00
 Saturday: 09:00–15:00 • Sunday: 09:00–13:00

TIMETABLE

* ALL SESSIONS IN ROOM K will be simultaneously translated into GERMAN, ITALIAN, POLISH, AND SPANISH.

14:00 14:30 15:00 15:30	16:00 16:30 17:00 17:30	17:45 18:00 18:30 19:00	
<p>E³ - Rising Stars Programme Basic Session 3</p> <p style="text-align: right;">3</p>	<p>Refresher Courses RC 414 * , RC 402</p> <p>E³ - Rising Stars Programme Basic Session 4</p> <p style="text-align: right;">4</p>	<p>Opening Ceremony</p> <p>Presentation of Honorary Members: <i>Richard L. Baron; US</i> <i>James A. Brink; US</i> <i>Gloria Soto Giordani; CL</i></p>	<p>Wednesday, March 1</p>
	<p>Refresher Courses RC 814 * , RC 805</p> <p>EuroSafe Imaging Session 3</p> <p style="text-align: right;">8</p>		<p>Thursday, March 2</p>
<p>EFRS meets Belgium *</p> <p>EuroSafe Imaging Session 4</p> <p>Professional Issues and Economics in Radiology (PIER) 2</p> <p style="text-align: right;">11</p>	<p>European Radiology 25th Anniversary Session</p> <p>Refresher Course RC 1212</p> <p>Pros & Cons Session PS 1227 *</p> <p>Professional Issues and Economics in Radiology (PIER) 3</p> <p style="text-align: right;">12</p>		<p>Friday, March 3</p>
<p>Professional Challenges Session PC 15b *</p> <p style="text-align: right;">15</p>	<p>Refresher Course RC 1605</p> <p>ESR Patient Advisory Group ESR-PAG 2</p> <p>EFRS Workshop *</p> <p style="text-align: right;">16</p>		<p>Saturday, March 4</p>
<p>E³ - Rising Stars Programme Case-Based Diagnosis Training 2</p> <p style="text-align: right;">19</p>			<p>Sunday, March 5</p>

The Voice of EPOS • in the EPOS™ Arena
 Wednesday – Friday: 09:00–16:00
 Saturday: 09:00–15:00 • Sunday: 09:00–13:00

FOREWORD BY THE ESR PRESIDENT

MY PERSONAL MESSAGE TO ALL RADIOGRAPHERS

Much more than other disciplines and specialties in medicine, radiology is teamwork. The team consists of certified radiologists, residents/registrars in training, radiographers, nurses, physicists, technical support staff, managers, etc. The working relationships between these various professional groups are much closer than in almost all other hospital departments. And, at the end of the day, the quality of our performance depends on the strength of the entire team. This is why I am so happy that the ECR collaborates closely with radiographers, and the scientific programme for 2017 will reflect this growing symbiotic relationship. A big challenge here is to make sure that we reach our target audience, because there are huge differences across Europe in the definition of the profession. There are even huge differences in the name that the practitioners of that profession have: radiographers, technologists, radiology technicians, imagers, etc.

Thanks to our enhanced collaboration with the European Federation of Radiographer Societies (EFRS) I am very happy to offer a very rich and complete programme for radiographers at ECR 2017, with radiographer sessions throughout the entire congress.

The number of radiographer sessions has been increased to 18. In addition, for the first time, there will be a separate 'Rising Stars' session dedicated to radiography students. With pride, the ECR can therefore also be considered the annual meeting of radiographers in Europe. I take this opportunity to sincerely thank the Radiographers Subcommittee of the ECR Programme Planning Committee, which is working under the coordination of Dr. Paul Bezina (EFRS Board member) and Prof. Pia Sundgren.

The central theme of ECR 2017 is 'youth', and this focus on the young(er) age group shall be reflected throughout the programme of the entire meeting. The new generation of radiologists and radiographers expects and demands high-quality education, delivered in an efficient and understandable way ('customer-friendly'). We shall have more and improved interactive sessions, and I want to create a greater role for social media, giving more young people the opportunity to share their knowledge.

FOREWORD BY THE ESR PRESIDENT

In addition, as President, I hope that ECR 2017 will also be remembered for the grand opening ceremony, the honorary lectures, the social events, and most of all for the spirit of friendship and conviviality.

I cordially invite all radiographers in Europe and beyond to actively participate in the ECR 2017 and to share their scientific work with the international community of radiologists and radiographers.

Paul M. Parizel, MD, PhD
ESR President
Chair of the ECR 2017 Programme Planning Committee



ESR President Prof. Paul M. Parizel is chairman of Antwerp University Hospital's department of radiology and full professor of radiology at the University of Antwerp's faculty of medicine.

OPENING CEREMONY

Wednesday, March 1
17:45-19:00, Room A

PAUL M. PARIZEL

Antwerp/BE
ESR PRESIDENT

PRESENTATION OF HONORARY MEMBERSHIP

Richard L. Baron; Chicago, IL/US
James A. Brink; Boston, MA/US
Gloria Soto Giordani; Santiago/CL

WILHELM CONRAD RÖNTGEN HONORARY LECTURE

Dissatisfaction, burnout
and inequality: three major
challenges in radiology

Thursday, March 2
12:15-12:45, Room A

MAURICIO CASTILLO

Chapel Hill, NC/US

JOSEF LISSNER HONORARY LECTURE

Friday, March 3
13:00-13:30, Room A

MATHIAS PROKOP

Nijmegen/NL

ARTHUR DE SCHEPPER HONORARY LECTURE

Saturday, March 4
12:15-12:45, Room A

FIONA J. GILBERT

Cambridge/UK

HEADLINE SESSIONS

GUEST LECTURE **BREAKING NEWS FROM LATIN AMERICA**

How to recognise Zika virus infections on imaging studies

Wednesday, March 1
12:15-12:45, Room B

**MARIA DE FÁTIMA
VASCO ARAGÃO**
Recife, PE/BR

TEN YEARS OF ESOR

Friday, March 3
12:15-13:00, Room A

EUROPEAN RADIOLOGY **25TH ANNIVERSARY SESSION**

Friday, March 3
16:00-17:30, Room Z

IMAGE INTERPRETATION QUIZ

There's a patient behind every interesting case

Friday, March 3
14:00-15:30, Room A

Moderator:

J.M. GARCÍA SANTOS
Murcia/ES

JUNIOR IMAGE INTERPRETATION QUIZ

Building our youth for the future

Saturday, March 4
12:55-13:55, Room A

Moderator:

A. SNOECKX
Antwerp/BE



ESR DIGNITARIES

RICHARD L. BARON

Chicago, IL/US

HONORARY MEMBER

JAMES A. BRINK

Boston, MA/US

HONORARY MEMBER

GLORIA SOTO GIORDANI

Santiago/CL

HONORARY MEMBER

JOSÉ IGNACIO BILBAO

Pamplona/ES

GOLD MEDALLIST

GUY FRIJA

Paris/FR

GOLD MEDALLIST

STEPHEN J. GOLDING

Oxford/UK

GOLD MEDALLIST

MAURICIO CASTILLO

Chapel Hill, NC/US

HONORARY LECTURER

FIONA J. GILBERT

Cambridge/UK

HONORARY LECTURER

MATHIAS PROKOP

Nijmegen/NL

HONORARY LECTURER

EFRS MEETS SESSION

Once again, the ESR will welcome a number of guest countries to the ECR as part of the 'ESR/EFRS meets' programme.

The European Federation of Radiographer Societies (EFRS) will also host its own 'meets' session for radiographers, in conjunction with representatives of the Association des Professionnels en Imagerie Médicale (APIM) and the Vereniging Medisch Beeldvormers (VMBv).

Both the ESR and the EFRS warmly welcome these societies and hope to see ECR delegates attend the sessions in large numbers.

3
March

Friday, March 3, 14:00-15:30, Room K

EFRS meets Belgium

(European Federation of Radiographer Societies)

EM 4

Presiding: H.H. Hjemly; Oslo/NO
S. Bogaert; Ghent/BE
A. Tempels; Lodelinsart/BE

Moderators: G. Alleman; Beernem/BE
J.-L. Greffe; Lodelinsart/BE

» **Introduction**

H.H. Hjemly; Oslo/NO
S. Bogaert; Ghent/BE
A. Tempels; Lodelinsart/BE

» **A picture of the radiographers' profession and education**

P. Van Laer; Lovendegem/BE

» **Belgium: the beautiful 'city'**

K. Van Belle; Sint-Andries/BE

» **Patient safety and quality improvement in Belgian radiology departments**

S. Germonpré; Brussels/BE

» **Radiation protection in Belgium**

O. Bran; Louette-Saint-Pierre/BE

» **Panel discussion**

European Congress of Radiology

ECR 2017



VIENNA
MARCH 1-5

THE FLOWER GARDENS
of RADIOLOGY

REGISTER NOW!

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SPECIAL FOCUS SESSION

The concept of a Special Focus Session is to deal with a topic at the cutting edge of development and clinical application. A traditional approach is inappropriate for such a session, which should reflect the lecturers' forthright personal views on a developing subject. The topics of these sessions should be presented in such a way as to promote debate and give an in-depth analysis.

The chairman will introduce each aspect of the topic and the panellists will then discuss their different perspectives and opinions. The audience will have the opportunity to discuss their ideas with the lecturers.

Session length: 90 minutes; three to four speakers.

Places are allocated on a first-come, first-served basis.

5
March

Sunday, March 5, 08:30-10:00, Room K

SF 17c How do radiographers enhance paediatric imaging?



- » **Chairmen's introduction: The role of the radiographer when imaging a paediatric patient**
L.J.O.C. Lança; Lisbon/PT
E. Sorantin; Graz/AT
- » **Informed consent: is this possible in paediatric imaging?**
J. Portelli; Msida/MT
- » **Dose reduction in paediatric imaging**
G. Paulo; Coimbra/PT
- » **Personality traits: a way of maximising cooperation during paediatric imaging**
S.J. MacKay; Liverpool/UK
- » **Panel discussion: Challenges and opportunities when imaging paediatric patients**

This session is part of the EuroSafe Imaging campaign.



INTERNATIONAL DAY OF RADIOLOGY

NOVEMBER 8, 2016



BREAST IMAGING

Let's celebrate together!

AN INITIATIVE OF THE ESR, ACR AND RSNA



WWW.IDOR2016.COM

SUPPORTED BY EUSOBI, SBI, EUROSAFE IMAGING AND IMAGE WISELY



PROFESSIONAL CHALLENGES SESSIONS

The idea of these sessions is to communicate and exchange information on professional issues related to radiology, such as training and education, research networking, radiological management and professional developments.

90-minute sessions; introduction by one or two chairmen; three to four lecturers; panel discussion.

Places are allocated on a first-come, first-served basis.

4
March

Saturday, March 4, 08:30–10:00, Room K

**PC 13 Radiography and radiology:
more than the sum of their parts**

- » **Chairmen's introduction: Working together**
P. Bezzina; Msida/MT
P.C. Maly Sundgren; Lund/SE
- » **Opportunities and challenges facing radiography and radiology**
G. Paulo; Coimbra/PT
- » **Patient safety culture: a combined responsibility**
S.J. Foley; Dublin/IE
- » **Skills and competences in care and compassion**
A. England; Salford/UK
- » **Panel discussion: A winning team: radiographers and radiologists?**

4
March

Saturday, March 4, 14:00–15:30, Room K

**PC 15b A team approach towards ensuring
patient safety and care**

- » **Chairmen's introduction: A team approach - why is this necessary?**
J. McNulty; Dublin/IE
T. Owman; Lund/SE
- » **A team-based approach to delivering safe practice**
J. Damilakis; Iraklion/GR
- » **The radiographer and radiologist: joint responsibility for reporting**
S. Rowe; London/UK
- » **A team approach in interventional procedures**
C. McLaren; London/UK
- » **Panel discussion: Can a team-based approach ensure patient safety?**

The European Society of Radiology offers you
the chance to attend its annual meeting for free ...

1,000
PEOPLE

ABSTRACTS

ROOMS

Apply for the ESR's **Invest in the Youth programme**
and you could experience Europe's biggest medical imaging meeting **free of charge**.

The ESR will fund **1,000 places** at ECR 2017, once again giving young radiologists, physicists
and radiographers from all over the world the chance to participate in the meeting.

**Successful applicants for the Invest in the Youth programme will be offered free
registration for ECR 2017 and free hotel accommodation.**

Application is possible from July 4 to October 15, 2016

ESR
EUROPEAN SOCIETY
OF RADIOLOGY

myESR.org



EUROPEAN EXCELLENCE IN EDUCATION (E³)

The E³ programme emphasises the importance of lifelong learning.

It covers the entire range of educational issues, from undergraduate medical education to subspecialised continuing professional development.

For the third time at ECR 2017, the E³ programme is structured according to the different levels defined by the European Training Curriculum for Radiology.

The E³ programme consists of the following five branches, which reflect the different levels of education in radiology, as well as the different stages of an individual's professional career:

Rising Stars Programme

European Diploma Prep Sessions

The Beauty of Basic Knowledge

ECR Academies

ECR Master Classes

EDUCATION ON DEMAND

Aim to be the best, learn from the best



Claim more than 300 e-CME credits on learn.myESR.org



E³ RISING STARS PROGRAMME

The Rising Stars Programme is designed especially for residents, students, radiographers and trainee radiographers.

It consists of Basic Sessions, Student Sessions, Joint Sessions with ESOR (European School of Radiology), Case-Based Diagnosis Training sessions, EFRS Radiographers' Basic Session and the Radiology Trainees Forum Programme including the RTF Highlighted Lectures and the RTF Quiz.

E³ – RISING STARS PROGRAMME

EFRS RADIOGRAPHERS' BASIC SESSION

(European Federation of Radiographer Societies)

4
March **Saturday, March 4, 08:30-10:00, Room L8**

The professional roles of the radiographer

- » **Introduction**
H.H. Hjemly; Oslo/NO
D. Katsifarakis; Athens/GR
- » **Becoming a clinical radiographer: role, role development and specialisation**
N.H. Woznitza; London/UK
- » **Becoming a clinical manager**
E. Kelly; Galway/IE
- » **Becoming an academic and/or researcher**
S.J. MacKay; Liverpool/UK
- » **Working in industry**
J. Tijhaar; Zoetermeer/NL
- » **Discussion, questions and conclusion**

CASE-BASED DIAGNOSIS TRAINING

Special programme for residents and general radiologists

5
March **Sunday, March 5, 13:00-14:00, Room E1**

CBDT I Case-Based Diagnosis Training - Part I

LEVEL I

- Moderators:** K.M. Friedrich; Vienna/AT
S. Robinson; Vienna/AT
- » **Liver**
L. Martí-Bonmatí; Valencia/ES
 - » **Neuro**
D. Prayer; Vienna/AT
 - » **Maxillofacial**
S. Robinson; Vienna/AT
 - » **Musculoskeletal**
F. Kainberger; Vienna/AT
 - » **Genitourinary**
M. Toepker; Vienna/AT

5
March **Sunday, March 5, 14:00-14:30, Room E1**

Case-Based Diagnosis Training

LEVEL I

- » **Interlude:**
Musculoskeletal manifestations of systemic disease
K. Bohndorf; Vienna/AT

5
March **Sunday, March 5, 14:30-15:30, Room E1**

CBDT II Case-Based Diagnosis Training - Part II

LEVEL I

- Moderators:** K.M. Friedrich; Vienna/AT
S. Robinson; Vienna/AT
- » **Head and neck**
C. Czerny; Vienna/AT
 - » **Chest**
H. Prosch; Vienna/AT
 - » **Spine**
K.M. Friedrich; Vienna/AT
 - » **Gastrointestinal**
W. Schima; Vienna/AT
 - » **Breast**
M.H. Fuchsjäger; Graz/AT

E³ – RISING STARS PROGRAMME

BASIC SESSIONS

*Special sessions suitable for residents, students,
radiographers and radiographers-in-training*

1
March **Wednesday, March 1, 08:30-10:00, Room F1**

Basic Session 1
Neuroradiology

LEVEL I

Moderator: E.T. Tali; Ankara/TR

- » **White matter disorders**
A. Rovira-Cañellas; Barcelona/ES
- » **Brain tumours**
J. Walecki; Warsaw/PL
- » **Stroke**
E.T. Tali; Ankara/TR

1
March **Wednesday, March 1, 10:30-12:00, Room F1**

Basic Session 2
Lungs

LEVEL I

Moderator: T. Franquet; Barcelona/ES

- » **Congenital anomalies**
J. Ley-Zaporozhan; Munich/DE
- » **Inflammatory diseases**
T. Franquet; Barcelona/ES
- » **Tumours**
I. Hartmann; Rotterdam/NL

1
March **Wednesday, March 1, 14:00-15:30, Room F1**

Basic Session 3
Gastrointestinal diseases

LEVEL I

Moderator: N. Papanikolaou; Lisbon/PT

- » **Oesophagus**
F.-T. Fork; Malmö/SE
- » **Stomach**
M. Laniado; Dresden/DE
- » **Small bowel**
N. Papanikolaou; Lisbon/PT
- » **Colon**
R.G.H. Beets-Tan; Amsterdam/NL

1
March **Wednesday, March 1, 16:00-17:30, Room F1**

Basic Session 4
Gynaecology and obstetrics

LEVEL I

Moderator: M. Bekiesinska-Figatowska; Warsaw/PL

- » **Benign gynaecological pathologies**
R.N. Lucas; Lisbon/PT
- » **Gynaecological malignancies**
A.G. Rockall; London/UK
- » **Foetal imaging**
M. Bekiesinska-Figatowska; Warsaw/PL

2
March **Thursday, March 2, 08:30-10:00, Room F1**

Basic Session 5
Head and Neck

LEVEL I

Moderator: S.S. Özbek; Izmir/TR

- » **Sinuses**
R. Maroldi; Brescia/IT
- » **Thyroid and parathyroid**
A. Levai; Budapest/HU
- » **Salivary glands**
S.J. Golding; Oxford/UK
- » **Lymph nodes**
S.S. Özbek; Izmir/TR

2
March **Thursday, March 2, 10:30-12:00, Room F1**

Basic Session 6
Oncologic therapies

LEVEL I

Moderator: O. Akhan; Ankara/TR

- » **Kidney**
O. Akhan; Ankara/TR
- » **Lungs**
M. Bezzi; Rome/IT
- » **Bones**
T. Lehnert; Frankfurt a. Main/DE
- » **Liver**
J.I. Bilbao; Pamplona/ES

Activities 2017

Visiting Schools and Seminars
ESOR Courses for EDiR
Scholarship Programmes
Fellowship Programmes
Visiting Professorships
Online Courses
Tutorials

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Education in partnership

ESOR EUROPEAN SOCIETY
OF RADIOLOGY

E³ EUROPEAN DIPLOMA PREP SESSION

The European Diploma Prep Sessions aim to prepare prospective candidates for the European Diploma in Radiology (EDiR).

They are also suitable for residents who want an overview of the various topics relevant to imaging and for those preparing for their national board examinations.

The content of the programme reflects Level I and Level II European Training Curriculum (ETC) learning objectives across a two-year cycle. The sessions are held in close cooperation with the European Board of Radiology (EBR).

5
March

Sunday, March 5, 10:30-12:00, Room F1

E³ 1823 Principles of imaging and radiation protection

LEVEL I+II

» **Chairman's introduction**

P. Vock; Spiegel/CH

A. Principles of computed tomography

W.A. Kalender; Erlangen/DE

B. Principles of magnetic resonance imaging

T. Metens; Brussels/BE

C. Radiation protection

M. Mahesh; Baltimore, MD/US



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ESRIF

PROS & CONS SESSION

The Pros & Cons Session will examine the controversial topic: 'Providing an effective ultrasound service: how and by whom?' The session will be split into one interactive and one non-interactive part.

3
March

Friday, March 3, 16:00-17:30, Room K

**PS 1227 Providing an effective ultrasound service:
how and by whom?**

Moderators: L.E. Derchi; Genoa/IT
V. Gibbs; Bristol/UK

A. Who provides US services? The situation in Europe
H. Edwards; Stevenage/UK

**B. Should US services be provided by radiologists?
(performed and reported on)**
M. Claudon; Vandoeuvre-les-Nancy/FR

**C. Can or should US services be provided
by radiographers/sonographers? Educational needs**
G. Harrison; London/UK

**D. Is it possible to standardise a 'real-time' examination?
Sometimes it is possible, but not always**
C. Nyhsen; Sunderland/UK

» Discussion on the pros and cons
L.E. Derchi; Genoa/IT
V. Gibbs; Bristol/UK



THE VOICE OF EPOS



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THE VOICE OF EPOS AT ECR 2017

The Voice of EPOS™ will again offer a platform for poster authors to present their work in a moderated poster session to an international audience at ECR 2017.

Presentations will take place from Wednesday to Sunday in the **EPOS™ Arena**, and will also be broadcast online via the ECR Live streaming service and recorded for *ECR Online*.

In addition to organ-based topics, The Voice of EPOS™ will feature new exciting sessions such as Computer Applications, Molecular Imaging, Physics in Radiology, Radiographers and Radioprotection. Topical sessions will be held for:

- Abdominal Viscera
- GI Tract
- Breast
- Cardiac
- Chest
- Emergency
- Genitourinary
- Head and Neck
- Interventional
- Musculoskeletal
- Neuro
- Oncology
- Paediatric
- Vascular
- Computer Applications
- Molecular Imaging
- Physics in Radiology
- **Radiographers**
- Radioprotection
- Eurosafe

To strengthen the exchange within the communities and serve a multilingual and international audience, there will be a multitude of sessions dedicated to the following languages and countries:

- Arabic
- Chinese
- French
- German
- Italian
- Japanese
- Korean
- Russian
- Turkish
- Greek
- Hindi
- Romanian
- Belgium
- Peru
- USA
- Latin America (Spanish)
- Latin America (Portuguese)
- Spain
- Portugal
- Polish
- Swedish

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All sessions are subject to abstract submission figures, which means that you can make them possible! Submit your abstracts to EPOS™, ask your colleagues to submit their work as well, and we'll make sure you will be part of a session in your specialty or mother tongue!

To take part, abstract submitters must select the respective affirmation during abstract submission.

Don't miss your chance – submit your abstract to EPOS™ until **October 15, 2016!**

— **ESR** EUROPEAN SOCIETY OF RADIOLOGY —

RISING STARS

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ECR STUDENT REGISTRATION FOR ONLY €50

Students and trainee radiographers under the age of 30, without any academic degree, can register for just €50.

SIX BASIC SESSIONS

Renowned professors from all over Europe will give basic lectures, prepared especially for trainees.

JOINT ESR/ESOR SESSIONS

Organised in cooperation with the European School of Radiology, these sessions will focus on radiologic anatomy.

STUDENT SESSIONS

The submitting authors of the 32 best abstracts will be invited to the ECR to present their work, with their accommodation and travel expenses paid by the European Society of Radiology.

NEW: EFRS RADIOGRAPHERS' BASIC SESSION

This special session on the professional roles of the radiographer will be held together with the European Federation of Radiographer Societies.



REFRESHER COURSES

Refresher Courses, as the name suggests, aim to refresh knowledge, reviewing and updating the more basic subjects for those who have not kept up to speed with certain developments, or who just need a reminder – something of interest not only to young radiologists but also experienced doctors.

The length of each course is 90 minutes (classic Refresher Course: three parts of 30 minutes each, including the introduction and time for discussion; integrated Refresher Course: three parts of 23 minutes each, leaving enough time for the introduction by the chairpersons and the panel discussion).

The course will be given by two or three lecturers and led by one or two moderator(s) on a defined subject of clinical imaging, imaging technique, interventional radiology and related subjects.

REFRESHER COURSES

Radiographers

1 March Wednesday, March 1, 08:30-10:00, Room K

RC 114 MRI technology and techniques

Moderators: V. Syrgiamiotis; Athens/GR
A. Mizzi; Msida/MT

- A. High field MRI benefits and limitations: 3T and higher**
C. Malamateniou; London/UK
- B. RF-related heating in clinical MRI**
T. Owman; Lund/SE
- C. The benefits of diffusion imaging**
J. Castillo; Msida/MT
- » **Discussion and questions: How is patient care affected by MRI technology and techniques?**

1 March Wednesday, March 1, 16:00-17:30, Room K

RC 414 Modern imaging of major trauma

Moderators: P.H. Hogg; Salford/UK
L. van den Hauwe; Antwerp/BE

- A. Use of MSCT in disaster victim identification**
J. Kroll; Maastricht/NL
- B. Conventional radiography in major trauma: role, technique modification and impact on interpretation**
M. Hardy; Bradford/UK
- C. Applications of ultrasound in the evaluation of major trauma**
T. Herlihy; Dublin/IE
- » **Discussion and questions: Imaging of major trauma - what are the challenges**

2 March Thursday, March 2, 08:30-10:00, Room K

RC 514 CT imaging: the role of the radiographer and technological developments

Moderators: C. Beardmore; London/UK
R. Siemund; Lund/SE

- A. The role of the radiographer in interventional CT procedures**
J. Santos; Coimbra/PT
- B. Optimising CT doses**
F. Zarb; Msida/MT
- C. State of the art CT technology**
S. Deppe; Kolding/DK
- » **Discussion and questions: Optimisation of care in CT: what else may be done?**

2 March Thursday, March 2, 16:00-17:30, Room K

RC 814 The education and training of radiographers

Moderators: H.H. Hjemly; Oslo/NO
E. Papadaki; Iraklion/GR

- A. E-learning and blended learning approaches to continuing professional development (CPD): is this the way forward?**
E. Metsälä; Helsinki/FI
- B. The assessment of clinical knowledge, skills and competences for pre- and post- registration radiographers**
L. Robinson; Salford/UK
- C. Clinical placements: the challenges ahead**
L.A. Rainford; Dublin/IE
- » **Discussion and questions: Education and training: what is the way forward?**

3 March Friday, March 3, 08:30-10:00, Room K

RC 914 Patient safety: professional and clinical responsibility of the radiographer

Moderators: T. Roding; Haarlem/NL
P. Due-Tønnessen; Oslo/NO

- A. Patient and staff safety in medical imaging: what can be done?**
S. Mc Fadden; Newtownabbey/UK
- B. Aspects of safety: what should be considered?**
K. Azevedo; Faro/PT
- C. Patient safety: opportunities and challenges ahead in medical imaging**
P. Bezzina; Msida/MT
- » **Discussion and questions: Ensuring patient safety in medical imaging: what else can be done?**

REFRESHER COURSES

Breast

Paediatric

1
March

Wednesday, March 1, 16:00–17:30, Room E1

RC 402 Screening for breast cancer **LEVEL I**

- » **Chairman's introduction**
E.A. Morris; New York, NY/US
- A. Screening with mammography only**
R.M. Pijnappel; Utrecht/NL
- B. Screening with mammography and ultrasound**
T.H. Helbich; Vienna/AT
- C. Screening with tomosynthesis**
U. Bick; Berlin/DE
- » **Panel discussion: What is the best modality approach to screen for breast cancer?**

3
March

Friday, March 3, 16:00–17:30, Room O

RC 1212 Dose reduction: tips and tricks **LEVEL I**

- Moderator:** C. Granata; Genoa/IT
- A. Dose reduction in paediatric CT**
D. Aadnevik; Bergen/NO
 - B. Diagnostic reference levels in paediatric imaging: international recommendations**
R. Seuri; Helsinki/FI
 - C. The impact of dose management systems**
L.A. Rainford; Dublin/IE



This session is part of the EuroSafe Imaging campaign.

Computer Applications

2
March

Thursday, March 2, 16:00–17:30, Room M 2

RC 805 Daily use of mobile devices in radiology **LEVEL I**

- » **Chairman's introduction**
O. Ratib; Geneva/CH
- A. What did mobile devices change in radiology education?**
E. Kotter; Freiburg/DE
- B. Is it appropriate to read a study on a smartphone or a tablet?**
E. Neri; Pisa/IT
- C. Security and ethical issues of mobile device technology**
E.R. Ranschaert; 's-Hertogenbosch/NL
- » **Panel discussion: Will mobile technology overcome stationary technology in radiology?**

4
March

Saturday, March 4, 16:00–17:30, Room M 2

RC 1605 Will the good old PACS disappear? **LEVEL I**

- » **Chairman's introduction**
D. Regge; Turin/IT
- A. It's time for PACS replacement: how-to guide, recommendations and pitfalls**
S. Morozov; Moscow/RU
- B. The paperless radiology department**
C. Heilmaier; Zurich/CH
- C. Does PACS into the cloud means PACS evaporates?**
J. Schillebeeckx; Knokke/BE
- » **Panel discussion: How will increased interconnection affect radiologists' day-to-day life?**



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JOINT
SESSIONS

JOINT SESSIONS

EFOMP WORKSHOPS

(European Federation of Organisations for Medical Physics)

3
March **Friday, March 3, 08:30–10:00, Room G**

EF 1 Radiation incidents and accidents in medical imaging and their management (part I)

LEVEL II

Moderators: J. Damilakis; Iraklion/GR
A. Torresin; Milan/IT

» **Chairman's introduction**

J. Damilakis; Iraklion/GR

» **Radiation incidents and accidents in CT**

M. Mahesh; Baltimore, MD/US

» **Radiation incidents and accidents in interventional suites**

R.W.R. Loose; Nürnberg/DE

» **Accidental exposure during pregnancy**

J. Damilakis; Iraklion/GR

This session is part of the EuroSafe Imaging campaign.



3
March **Friday, March 3, 10:30–12:00, Room G**

EF 2 Radiation incidents and accidents in medical imaging and their management (part II)

LEVEL II

Moderators: M. Brambilla; Novara/IT
D.J. Lurie; Aberdeen/UK

» **Chairman's introduction**

M. Brambilla; Novara/IT

» **Incidents and accidents in MRI**

D.J. Lurie; Aberdeen/UK

» **Radiation incidents and accidents in nuclear medicine**

M. Brambilla; Novara/IT

» **Management of incidents and accidents in imaging departments: the role and responsibilities of medical physicists**

V. Tsapaki; Athens/GR

This session is part of the EuroSafe Imaging campaign.



EFRS WORKSHOP

(European Federation of Radiographer Societies)

facilitated by Elsevier and the 'Radiography' journal

4
March **Saturday, March 4, 16:00–17:30, Room K**

EFRS Authorship and Reviewer Workshop

» **Chairman's introduction: Establishing the evidence base in radiology and radiography**

G. Paulo; Coimbra/PT

» **Why publish your work?**

F. Zarb; Msida/MT

» **Journal selection: aims and scope, audience and metrics**

J.M. Nightingale; Salford/UK

» **Ethics of publishing**

J. McNulty; Dublin/IE

» **Things to consider: the reviewer's perspective**

A. England; Salford/UK

» **Editor's ten top tips for publishing success**

J.M. Nightingale; Salford/UK

» **Panel discussion: What are the barriers to publishing your research or becoming a reviewer and how can they be overcome?**

JOINT SESSIONS

ESR PATIENT ADVISORY GROUP
(ESR-PAG) SESSIONS4
March

Saturday, March 4, 10:30-12:00, Room L 8

ESR-PAG 1 Improving patient safety and quality of care in clinical radiology **LEVEL II+III**

- » **Chairmen's introduction**
N. Bedlington; Vienna/AT
B.E. Kelly; Belfast/UK
- » **The work of the ESR Audit & Standards Subcommittee in collaboration with ESR-PAG**
B.E. Kelly; Belfast/UK
- » **Patients' perspective**
D. Walsh; Dublin/IE
E. Briers; Hasselt/BE
- » **Example of good practice: implementing a patient satisfaction questionnaire in your radiology department**
D.-G. Carrié; Toulouse/FR
- » **Panel discussion: Does your department perform well in patient-centred care?**

4
March

Saturday, March 4, 16:00-17:30, Room L 8

ESR-PAG 2 Big data - data management, standardisation, access and protection: the way forward in developing personalised/precision medicine **LEVEL II+III**

- » **Chairmen's introduction**
N. Bedlington; Vienna/AT
B. Brkljačić; Zagreb/HR
- » **European developments within data management, standardisation, access and protection**
P. Mildenerger; Mainz/DE
- » **Patients' point of view**
N. Bedlington; Vienna/AT
E. Briers; Hasselt/BE
- » **Current US status pros & cons and issues**
J.A. Brink; Boston, MA/US
- » **Panel discussion: Importance of data management in modern medicine - what are the main issues to be addressed?**

JOINT SESSIONS

EUROSAFE IMAGING SESSIONS

2
March **Thursday, March 2, 10:30-12:00, Room X**

EU 2 Focus on appropriate image quality: what we have to know **LEVEL II**

Moderator: W. Stiller; Heidelberg/DE

- » **EuroSafe Imaging on “appropriate image quality”:** Introduction
S.T. Schindera; Aarau/CH
- » **Metrics and methods for quantitative image quality determination: a physicist’s perspective**
C. Hoeschen; Magdeburg/DE
- » **Balancing diagnostic image quality and radiation exposure in clinical routine: a radiologist’s perspective**
H. Geijer; Örebro/SE
- » **Image quality assessment via model observers: connecting objective and subjective perspectives**
F.R. Verdun; Lausanne/CH
- » **Implementing a review process on image quality: experiences from a EuroSafe Imaging Star**
F. Deferme; Antwerp/BE



This session is part of the EuroSafe Imaging campaign.

3
March **Friday, March 3, 14:00-15:30, Room M 1**

EU 4 European CT dose repository **LEVEL II**

Moderators: J. Damilakis; Iraklion/GR
J.A. Brink; Boston, MA/US

- » **The technical implementation of dose tracking tools**
A. Torresin; Milan/IT
- » **How do dose tracking tools change the practice of radiographers?**
S.J. Foley; Dublin/IE
- » **How do dose tracking tools change the practice of radiologists?**
F. Zanca; Leuven/BE
- » **European CT Dose repository working group: summary of activities**
E. Neri; Pisa/IT
- » **The ACR Dose Index Registry**
W.W. Mayo-Smith; Boston, MA/US
- » **Questions and answers**



This session is part of the EuroSafe Imaging campaign.

2
March **Thursday, March 2, 16:00-17:30, Room L 8**

EU 3 European Alliance for Medical Radiation Protection Research (EURAMED) **LEVEL II**

Moderators: G. Frija; Paris/FR
C. Hoeschen; Magdeburg/DE

- » **Introduction of EURAMED**
C. Hoeschen; Magdeburg/DE
- » **Cardiovascular effects of radiations focused on breast cancer treated with radiation therapy**
W. Dörr; Vienna/AT
- » **Circulating biomarkers reflecting dose exposure**
R. Tamarat; Fontenay-aux-Roses/FR
- » **General physical principles used for optimisation**
G. Paulo; Coimbra/PT
- » **Dose distribution in interventional radiology**
H. Schlatt; Munich/DE



This session is part of the EuroSafe Imaging campaign.

JOINT SESSIONS

PROFESSIONAL ISSUES AND
ECONOMICS IN RADIOLOGY
(PIER) SESSIONS3
March

Friday, March 3, 10:30-12:00, Room M 2

PIER Session 1 **Improving efficiency
in radiology
departments**

LEVEL II

Moderators: J.A. Brink; Boston, MA/US
S. Morozov; Moscow/RU

A. How to identify radiology productivity bottlenecks?

S. Morozov; Moscow/RU

B. How to optimise radiology with big data:

Medical Analytics Group (MAG) project

O.S. Pianykh; Newton Highlands, MA/US

C. How to implement system changes?

G. Paulo; Coimbra/PT

**D. Making the business case for patient-centred
imaging care**

M.H. Maurer; Berne/CH

» Panel discussion

3
March

Friday, March 3, 14:00-15:30, Room M 2

PIER Session 2 **Perspectives
on radiology equipment
management**

LEVEL III

Moderators: B. Brkljačić; Zagreb/HR
P. Leander; Malmö/SE

**A. Renewal of equipment and procurement: central vs
local procedures**

B. Brkljačić; Zagreb/HR

**B. Utilisation of equipment: what is appropriate? The
public healthcare system's perspective**

P. Leander; Malmö/SE

**C. Utilisation of equipment: what is appropriate? The
private healthcare system's perspective**

A. Palkó; Szeged/HU

**D. Radiology: a cost factor? The hospital manager's
perspective**

P. Garel; Brussels/BE

» Panel discussion



SATELLITE SYMPOSIA

Industrial Satellite Symposia are organised by various international companies.

These sessions are a chance to get an industry perspective on various scientific subjects, including technical updates, emerging trends and future innovations.

The symposia vary in length from one hour to 90 minutes, with the number of speakers also differing between companies and subjects.

Places are allocated on a first-come, first-served basis.

SATELLITE SYMPOSIA ORGANISED BY

Bayer HealthCare, Bracco, GE Healthcare, Guerbet, Hologic, Mindray, Mint Medical, Philips, Samsung, Siemens Healthineers, Supersonic Imagine, Toshiba Medical Systems

Programmes to be announced.



INDUSTRY WORKSHOPS

Intensive practical sessions organised directly by a particular company or commercial vendor. Classes are conducted on their own state-of-the-art workstations with expert technical support provided by company staff. Participants have the opportunity to learn from experts about using computers and medical devices in the field of radiology and gain first-hand knowledge.

As a registered attendee for the ECR, participation is free of charge.

INDUSTRY WORKSHOPS ORGANISED BY

Bayer HealthCare, Flensburg University of Applied Sciences,
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Programmes to be announced.

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EUROPEAN EXCELLENCE IN EDUCATION (E³)

E³ – Rising Stars Programme	M. Szczerbo-Trojanowska; Lublin/PL
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E3 – European Diploma Prep Sessions

.....	B. Ertl-Wagner; Munich/DE
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E³ – ECR Academies

Tips and Tricks in Liver, Bile Ducts and Pancreas Imaging	Y. Menu; Paris/FR
Spinal Imaging	E. Llopis; Valencia/ES,
.....	L. van den Hauwe; Antwerp/BE
Multiparametric Ultrasound (MPUS)	G.H. Mostbeck; Vienna/AT
Neuroradiology: from Morphology to Function	P.M. Parizel; Antwerp/BE
Interactive Teaching Sessions for Young (and not so Young) Radiologists	M.G. Mack; Munich/DE

CASES OF THE DAY

.....	M. Sánchez; Barcelona/ES
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IMAGE INTERPRETATION QUIZ

.....	J.M. García Santos; Murcia/ES
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JUNIOR IMAGE INTERPRETATION QUIZ

.....	A. Snoeckx; Antwerp/BE
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EVALUATION

.....	M.H. Fuchsjäger; Graz/AT
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E-LEARNING

.....	M. Maas; Amsterdam/NL
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 **J. Rimola; Barcelona/ES**
 **S. Terraz; Geneva/CH**
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 **R.M. Pijnappel; Utrecht/NL**
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 **M. Hrabak Paar; Zagreb/HR**
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E³ – EUROPEAN EXCELLENCE IN EDUCATION

E³ – Rising Stars Programme

..... **M. Szczerbo-Trojanowska; Lublin/PL**
 Joint Sessions of the ESR and ESOR
 (European School of Radiology) **N. Gourtsoyiannis; Athens/GR**
 Case-Based Diagnosis Training **S. Robinson; Vienna/AT**
 **K.M. Friedrich; Vienna/AT**

E³ – European Diploma Prep Sessions

..... **B. Ertl-Wagner; Munich/DE**

E³ – The Beauty of Basic Knowledge

A Survival Guide
 to Musculoskeletal Imaging **V. Cassar-Pullicino; Oswestry/UK**
 Chest Imaging **N. Howarth; Chêne-Bougeries/CH**

E³ – ECR Academies

Tips and Tricks in Liver;
 Bile Ducts and Pancreas Imaging **Y. Menu; Paris/FR**
 Spinal Imaging **E. Llopis; Valencia/ES,**
 **L. van den Hauwe; Antwerp/BE**
 Multiparametric Ultrasound (MPUS) **G.H. Mostbeck; Vienna/AT**
 Neuroradiology:
 from Morphology to Function **P.M. Parizel; Antwerp/BE**
 Interactive Teaching Sessions for Young
 (and not so Young) Radiologists **M.G. Mack; Munich/DE**

E³ – Master Classes

Abdominal and Gastrointestinal
 (ESGAR) **T. Mang; Vienna/AT, S.A. Jackson; Plymouth/UK**
 Breast (EUSOBI) **F. Pediconi; Rome/IT**
 Cardiac (ESCR) **K. Nikolaou; Tübingen/DE**
 Chest (ESTI) **A.R. Larici; Rome/IT**
 Molecular Imaging (ESMOFIR) **F.A. Gallagher; Cambridge/UK**
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 Emergency Radiology (ESER) **R. Basilico; Chieti/IT**

MINI COURSE

Joint Course of ESR and RSNA

(Radiological Society of North America):

Hybrid Imaging

..... **A. Drzezga; Cologne/DE**
 **K. Riklund; Umeå/SE**

MULTIDISCIPLINARY SESSIONS

Bone tumours **A.M. Davies; Birmingham/UK**
 Virtual autopsy imaging the role of pathologist
 vs radiologist: one big happy family? **C. Owens; London/UK**
 Brain malfunction: MRI and PET
 in the diagnosis of psychiatric disorders **T.A. Yousry; London/UK**
 Transcatheter aortic valve implantation **A. Cribier; Rouen/FR**

PROS AND CONS SESSION

Providing an effective ultrasound service:
 how and by whom? **L. Derchi; Genoa/IT**
 **V. Gibbs; Bristol/UK**

CLINICAL TRIALS IN RADIOLOGY

..... **M. Dewey; Berlin/DE**