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
European Society of Radiology
ESR Office, Neutorgasse 9, 1010 Vienna, Austria
Phone: (+ 43 1) 533 40 64-0
E-mail: communications@myESR.org
www.myESR.org

Managing Editor: Julia Patuzzi
Coordination of the scientific programme: ECR Scientific Programme Department
Art Direction: Ronald Talasz
Layout: Barbara Biegl

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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
ALL SESSIONS IN ROOM K WILL BE SIMULTANEOUSLY TRANSLATED INTO GERMAN, ITALIAN, POLISH, AND SPANISH.
### ECR 2017 TIMELINE

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

myESR.org
REGISTRATION FEES (INCLUDING 10% VAT):

<table>
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<tr>
<th>Category</th>
<th>Early Fee</th>
<th>Middle Fee</th>
<th>Late Fee</th>
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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
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*ALL SESSIONS IN ROOM K will be simultaneously translated into GERMAN, ITALIAN, POLISH, AND SPANISH.*

The Voice of EPOS • in the EPOS™ Arena
Wednesday – Friday: 09:00–16:00
Saturday: 09:00–15:00 • Sunday: 09:00–12:00
### TIMETABLE

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<thead>
<tr>
<th>Time</th>
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### Wednesday, March 1

- E3 - Rising Stars Programme Basic Session 3
- Refresher Courses RC 414 *, RC 402
- E3 - Rising Stars Programme Basic Session 4
- EuroSafe Imaging Session 3
- Opening Ceremony
  - Presentation of Honorary Members: Richard L. Baron; US
  - James A. Brink; US
  - Gloria Soto Giordani; CL

### Thursday, March 2

- Refresher Courses RC 814 *, RC 805
- EuroSafe Imaging Session 3

### Friday, March 3

- European Radiology 25th Anniversary Session
- Refresher Course RC 1212
- Pros & Cons Session PS 1227 *
- Professional Issues and Economics in Radiology (PIER) 3

### Saturday, March 4

- Professional Challenges Session PC 15b *
- Refresher Course RC 1605
- ESR Patient Advisory Group ESR-PAG 2
- EFRS Workshop *

### Sunday, March 5

- E3 - Rising Stars Programme Case-Based Diagnosis Training 2

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

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The Voice of EPOS • in the EPOS™ Arena

Wednesday – Friday: 09:00–16:00
Saturday: 09:00–15:00 • Sunday: 09:00–12:00
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 they 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 Bezzi (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.
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

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

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
The future of CT: from hardware to software
Friday, March 3
13:00–13:30, Room A

MATHIAS PROKOP
Nijmegen/NL

ARTHUR DE SCHEPPER HONORARY LECTURE
From features to function: breakthroughs in breast imaging
Saturday, March 4
12:15–12:45, Room A

FIONA J. GILBERT
Cambridge/UK
TEN YEARS OF ESOR
Friday, March 3
12:15–13:00, Room A
» Introduction ESR/ECR President
  P.M. Parizel; Antwerp/BE
» Ten years of ESOR
  N. Gourtsoyiannis; Athens/GR
» How did ESOR influence my professional development
  O. Abeyakoon; Cambridge/UK
» Teaching in ESOR: tutoring scholars and fellows
  C. Loewe; Vienna/AT
» Celebration

EUROPEAN RADIOLOGY 25TH ANNIVERSARY SESSION
Friday, March 3
16:00–17:30, Room Z
Moderators:
MAXIMILIAN F. REISER
Munich/DE
ALBERT L. BAERT
Leuven/BE
ADRIAN K. DIXON
Cambridge/UK

IMAGE INTERPRETATION QUIZ
There’s a patient behind every interesting case
Friday, March 3
14:00–15:30, Room A
Moderator:
JOSÉ 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:
ANNEMIE 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. GOLDMING
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
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.

EFRS MEETS SESSION

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
D. Bran; Louette-Saint-Pierre/BE

» Panel discussion
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.

**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.*
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.
Activities 2017

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

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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)

Saturday, March 4, 08:30–10:00, Room L8

BR 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
  P. Doherty; Forchheim/DE

» Discussion, questions and conclusion

CASE-BASED DIAGNOSIS TRAINING
Special programme for residents and general radiologists

Sunday, March 5, 13:00–14:00, Room E1

CBDT I Case-Based Diagnosis Training - Part 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

Sunday, March 5, 14:00–14:30, Room E1

Case-Based Diagnosis Training

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

Sunday, March 5, 14:30–15:30, Room E1

CBDT II Case-Based Diagnosis Training - Part II

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

**Basic Session 1**  
Neuroradiology

**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

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

**Basic Session 2**  
Lungs

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

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

**Basic Session 3**  
Gastrointestinal diseases

**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

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

**Basic Session 4**  
Gynaecology and obstetrics

**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

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

**Basic Session 5**  
Head and Neck

**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

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

**Basic Session 6**  
Oncologic therapies

**Moderator:** O. Akhan; Ankara/TR  
» Kidney  
  O. Akhan; Ankara/TR  
» Lungs  
  M. Bezzi; Rome/IT  
» Bones  
  A. Gangi; Strasbourg/FR  
» Liver  
  J.I. Bilbao; Pamplona/ES
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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).

**Sunday, March 5, 10:30–12:00, Room F1**

**E3 1823 Principles of imaging and radiation protection**

- **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
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?  
(performing 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. Nyhson; Sunderland/UK

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

NEW: Due to the record in abstract submissions and applications for The Voice of EPOS™, ECR 2017 will feature 3 stages!

Presentations will take place from Wednesday to Sunday, 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
- Breast
- Cardiac
- Chest
- Computer Applications (NEW)
- Emergency
- EuroSafe Imaging (NEW)
- Genitourinary
- GI Tract
- Head and Neck
- Interventional
- Molecular Imaging (NEW)
- Musculoskeletal
- Neuro
- Oncology
- Paediatric
- Physics in Radiology (NEW)
- Radiographers (NEW)
- Radioprotection/Radiation Dose (NEW)
- Vascular

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
- Arabic (Middle East)
- Arabic (North Africa)
- Chinese
- French
- German
- Greek (NEW)
- India (NEW)
- Italian
- Japanese
- Korean
- Nordic
- Latin America (Portuguese) (NEW)
- Latin America (Spanish) (NEW)
- Polish (NEW)
- Portuguese
- Romanian (NEW)
- Russian
- Spain
- Turkish
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, 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.

Accepted papers for oral presentation are presented in the Scientific Sessions.
Places are allocated on a first-come, first-served basis.

The authors of the best scientific papers will be presented with a certificate and given free ECR 2018 registration.

The award will be assigned to the best paper presentation of each topic based on the evaluation by session moderators and subcommittee members. Selection criteria comprise quality of presentation, scientific content and overall impression of the performance. The award winners will be informed after the congress and will be published on the ESR website.
REFRESHER COURSES / SCIENTIFIC SESSIONS

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. Recent developments in structural and quantitative spinal cord imaging at 3T
M.C. Yiannakas; 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, 10:30-12:00, Room K
SS 214  CT imaging
Moderators: K. Muscat; Birkirkara/MT
A. Palkó; Szeged/HU

1 March
Wednesday, March 1, 14:00-15:30, Room K
SS 314  MR imaging
Moderators: L. Natale; Rome/IT
K. Taylor; Cambridge/UK

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.D. Mørup; Odense/DK
» Discussion and questions: Optimisation of care in CT: what else may be done?

2 March
Thursday, March 2, 10:30-12:00, Room K
SS 614  Dose optimisation
Moderators: M. Mechl; Brno/CZ
L.A. Rainford; Dublin/IE

2 March
Thursday, March 2, 14:00-15:30, Room K
SS 714  Breast imaging
Moderators: C. Falzon; Sta. Lucia/MT
S. Zackrisson; Malmö/SE

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?
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
J. McNulty; Dublin/IE
» Discussion and questions: Ensuring patient safety in medical imaging: what else can be done?
This session is part of the EuroSafe Imaging campaign.

Friday, March 3, 10:30–12:00, Room K

SS 1014  Professional issues in radiography
Moderators: M. Hailemichael; Lund/SE
J. Reponen; Raahe/FI

Saturday, March 4, 10:30-12:00, Room K

SS 1414  Radiography education
Moderators: D. Akata; Ankara/TR
P. Cosson; Teeside/UK

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

SS 1814  Topics in general and paediatric imaging
Moderators: B.T. Andersson; Lund/SE
D. Prayer; Vienna/AT

Sunday, March 5, 14:00-15:30, Room K

SS 1914  Radiography practice
Moderators: J.M. Saude; Porto/PT
D. Tscholakoff; Vienna/AT
**Breast**

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

**RC 402  Screening for breast cancer**

» 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?

**Paediatric**

**Friday, March 3, 16:00–17:30, Room O**

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

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**

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

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

» 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; Mol/BE  
» Panel discussion: Will mobile technology overcome stationary technology in radiology?

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

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

» 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?
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)

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.

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

EFRS WORKSHOP
(European Federation of Radiographer Societies)
facilitated by Elsevier and the ‘Radiography’ journal

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?

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)

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.
ESR PATIENT ADVISORY GROUP (ESR-PAG) SESSIONS

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

ESR-PAG 1 Improving patient safety and quality of care in clinical radiology

- **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?**

  *This session is part of the EuroSafe Imaging campaign.*

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

- **Chairmen’s introduction**
  N. Bedlington; Vienna/AT
  B. Brkljačić; Zagreb/HR

- **European developments within data management, standardisation, access and protection**
  P. Mildenberger; Mainz/DE

- **Patients’ point of view**
  N. Bedlington; Vienna/AT
  E. Briers; Hasselt/BE

- **Current US status pros and 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

Thursday, March 2, 10:30–12:00, Room X

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

**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.*

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

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

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

» Introduction of EURAMED
  C. Hoeschen; Magdeburg/DE

» Cardiovascular effects of radiotherapy in breast cancer patients: potential mechanisms
  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. Schlattl; Munich/DE

*This session is part of the EuroSafe Imaging campaign.*

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

EU 4 European CT dose repository

**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
  R.L. Morin; Jacksonville, FL/US

» Questions and answers

*This session is part of the EuroSafe Imaging campaign.*
JOINT SESSIONS

PROFESSIONAL ISSUES AND ECONOMICS IN RADIOLOGY (PIER) SESSIONS

3 March  Friday, March 3, 10:30–12:00, Room M 2
PIER Session 1 Improving efficiency in radiology departments

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

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
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, Flensburg University of Applied Sciences, FUJIFILM, GE HealthCare, Hologic, Mammotome, Materialise, Toshiba Medical Systems

Programmes to be announced.
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E3 – EUROPEAN EXCELLENCE IN EDUCATION

E3 – Rising Stars Programme
M. Szczero-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
V. Cassar-Pullicino; Oswestry/UK
N. Howarth; Chêne-Bougeries/CH

E3 – ECR Academies
Tips and Tricks in Liver.
Y. Menu; Paris/FR
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 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
Genitourinary (ESUR).
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Paediatric (ESPR).
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T. Jargiello; Lublin/PL
Oncologic Imaging (ESOI).
K. Coenegrachts; Bruges/BE
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: one big happy family?
C. Owens; London/UK
Brains 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