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).
The ECR is now recognised as the official annual scientific meeting in medical imaging for radiographers by both the European Federation of Radiographer Societies (EFRS) and the European Society of Radiology (ESR).

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

Photo Credits: Unless otherwise indicated all pictures © ESR – European Society of Radiology

Printed by: agensketterl Druckerei GmbH
All data as per date of printing: February 2017

ESR accepts no responsibility for errors or misprints.

Printed on environmental friendly paper.
Only elemental chlorine free cellulose was used for the production of the paper.
The paper is recyclable according to EU Directive 9462/2.

Please note that the most up-to-date version of the scientific programme can be found at ecronline.myESR.org
Welcome to Vienna

WELCOME TO THE EUROPEAN CONGRESS OF RADIOLOGY 2017
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Refresher Course RC 114 *</td>
</tr>
<tr>
<td></td>
<td>E³ - Rising Stars Programme</td>
</tr>
<tr>
<td></td>
<td>Basic Session 1</td>
</tr>
<tr>
<td>09:00</td>
<td>E³ - Rising Stars Programme</td>
</tr>
<tr>
<td></td>
<td>Basic Session 2</td>
</tr>
<tr>
<td>09:30</td>
<td>Scientific Session SS 214 *</td>
</tr>
<tr>
<td>10:00</td>
<td>Guest Lecture</td>
</tr>
<tr>
<td></td>
<td>Breaking News</td>
</tr>
<tr>
<td></td>
<td>from Latin America</td>
</tr>
<tr>
<td></td>
<td>Maria de Fátima Vasco Aragão; BR</td>
</tr>
<tr>
<td>10:30</td>
<td>Refresher Course RC 514 *</td>
</tr>
<tr>
<td></td>
<td>E³ - Rising Stars Programme</td>
</tr>
<tr>
<td></td>
<td>Basic Session 5</td>
</tr>
<tr>
<td>11:00</td>
<td>Voice of EPOS - Radiographers VoE 68</td>
</tr>
<tr>
<td>11:30</td>
<td>Guest Lecture</td>
</tr>
<tr>
<td></td>
<td>Breaking News</td>
</tr>
<tr>
<td></td>
<td>from Latin America</td>
</tr>
<tr>
<td></td>
<td>Maria de Fátima Vasco Aragão; BR</td>
</tr>
<tr>
<td>12:00</td>
<td>Wilhelm Conrad Röntgen</td>
</tr>
<tr>
<td></td>
<td>Honorary Lecture</td>
</tr>
<tr>
<td></td>
<td>Mauricio Castillo; US</td>
</tr>
<tr>
<td>12:15</td>
<td>Refresher Course RC 914 *</td>
</tr>
<tr>
<td></td>
<td>EFOMP Workshop EF 1</td>
</tr>
<tr>
<td>13:00</td>
<td>Scientific Session SS 1014 *</td>
</tr>
<tr>
<td>13:30</td>
<td>EuroSafe</td>
</tr>
<tr>
<td></td>
<td>Imaging Session 2</td>
</tr>
<tr>
<td>14:00</td>
<td>Wilhelm Conrad Röntgen</td>
</tr>
<tr>
<td></td>
<td>Honorary Lecture</td>
</tr>
<tr>
<td></td>
<td>Mauricio Castillo; US</td>
</tr>
<tr>
<td></td>
<td>ESOR Ten-Year Anniversary Session</td>
</tr>
<tr>
<td>14:55</td>
<td>Josef Lissner</td>
</tr>
<tr>
<td></td>
<td>Honorary Lecture</td>
</tr>
<tr>
<td></td>
<td>Mathias Prokop; NL</td>
</tr>
<tr>
<td></td>
<td>ESOR Ten-Year Anniversary Session</td>
</tr>
<tr>
<td>15:55</td>
<td>Arthur de Schepper</td>
</tr>
<tr>
<td></td>
<td>Honorary Lecture</td>
</tr>
<tr>
<td></td>
<td>Fiona J. Gilbert; UK</td>
</tr>
<tr>
<td>16:55</td>
<td>Voice of EPOS - Radiographers VoE 86</td>
</tr>
<tr>
<td></td>
<td>ESOR-PAG 1</td>
</tr>
<tr>
<td>17:55</td>
<td>Special Focus Session SF 17c *</td>
</tr>
<tr>
<td>18:55</td>
<td>E³ - Rising Stars Programme</td>
</tr>
<tr>
<td></td>
<td>European Diploma Prep Session</td>
</tr>
<tr>
<td></td>
<td>E³ 1823</td>
</tr>
<tr>
<td>19:55</td>
<td>E³ - Rising Stars Programme</td>
</tr>
<tr>
<td></td>
<td>Case-Based Diagnosis Training</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Time</th>
<th>E3 - Rising Stars Programme</th>
<th>Refresher Courses</th>
<th>Opening Ceremony</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Basic Session 3</td>
<td>RC 414 *, RC 402</td>
<td>Presentation of Honorary Membership</td>
</tr>
<tr>
<td>14:30</td>
<td>Scientific Session</td>
<td></td>
<td>Richard L. Baron; US</td>
</tr>
<tr>
<td>15:00</td>
<td>SS 314 *</td>
<td></td>
<td>James A. Brink; US</td>
</tr>
<tr>
<td>15:30</td>
<td>E3 - Rising Stars Programme</td>
<td>Basic Session 4</td>
<td>Gloria Soto Giordani; CL</td>
</tr>
<tr>
<td>16:00</td>
<td>Scientific Session</td>
<td></td>
<td>Presentation of Gold Medals</td>
</tr>
<tr>
<td>16:30</td>
<td>SS 714 *</td>
<td></td>
<td>José Ignacio Bilbao; ES</td>
</tr>
<tr>
<td>17:00</td>
<td>Refresher Courses</td>
<td></td>
<td>Guy Frija; FR</td>
</tr>
<tr>
<td>17:30</td>
<td>RC 814 *, RC 805</td>
<td>EuroSafe Imaging Session 3</td>
<td>Stephen J. Golding; UK</td>
</tr>
<tr>
<td>17:45</td>
<td>E3 - Rising Stars Programme</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18:00</td>
<td>Scientific Session</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18:30</td>
<td>Refresher Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19:00</td>
<td>E3 - Rising Stars Programme</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Voice of EPOS • in the ECR Online & EPOS™ Lounge

Wednesday – Friday: 09:00–16:00
Saturday: 09:00–15:00 • Sunday: 09:00–12:00
CONGRESS VENUE
Austria Center Vienna
Bruno Kreisky Platz 1
1220 Vienna, Austria

CONGRESS LANGUAGE
English

ONSITE OPENING HOURS

Registration
Tuesday, February 28................................. 12:00–18:00
Wednesday, March 1................................. 07:00–18:00
Thursday, March 2 to Saturday, March 4........ 07:30–18:00
Sunday, March 5................................. 07:30–16:00

Preview Centre
Tuesday, February 28................................. 12:00–18:00
Wednesday, March 1 to Saturday, March 4.... 07:30–18:00
Sunday, March 5................................. 07:30–16:00

ECR Online & EPOS™ Lounge
EPOS™ – Scientific Exhibition
Wednesday, March 1 to Saturday, March 4... 08:00–18:00
Sunday, March 5................................. 08:00–15:30

Technical Exhibition
EXPO Halls and EXPO Foyer D
Thursday, March 2 to Saturday, March 4........ 10:00–17:00
Sunday, March 5................................. 10:00–14:00

EXPO Gallery (First Level)
Wednesday, March 1................................. 14:00–17:00
Thursday, March 2 to Saturday, March 4........ 10:00–17:00
Sunday, March 5................................. 10:00–15:30

Travel Service
Tuesday, February 28................................. 12:00–18:00
Wednesday, March 1 to Saturday, March 4.... 08:00–17:30
Sunday, March 5................................. 08:00–12:00

Press Office & Business Centre
Wednesday, March 1 to Saturday, March 4.... 08:00–18:00
Sunday, March 5................................. 08:00–16:00

SESSIONS IN JOINT SPONSORSHIP WITH

CIRSE  Cardiovascular and Interventional Radiological Society of Europe
EFOMP  European Federation of Organisations for Medical Physics
EFRS  European Federation of Radiographer Societies
ESCR  European Society of Cardiovascular Radiology
ESER  European Society of Emergency Radiology
ESGAR  European Society of Gastrointestinal and Abdominal Radiology
ESHNR  European Society of Head and Neck Radiology
ESMOFIR  European Society of Molecular and Functional Imaging in Radiology
ESNR  European Society of Neuroradiology
ESOI  European Society of Oncologic Imaging
ESPR  European Society of Paediatric Radiology
ESSR  European Society of Musculoskeletal Radiology
ESTI  European Society of Thoracic Imaging
ESUR  European Society of Urogenital Radiology
EUSOBI  European Society of Breast Imaging
EuSoMII  European Society of Medical Imaging Informatics
# TABLE OF CONTENTS

## GENERAL INFORMATION
- Timetable .................................................. 2
- 29th European Congress of Radiology .................. 4
- Foreword by the ESR President .......................... 6
- ESR Executive Council ..................................... 42
- ECR 2017 Programme Planning Committee .......... 43
- Scientific Subcommittees ................................. 44
- ECR 2017 Topic Coordinators ............................ 47

## SCIENTIFIC PROGRAMME
- Headline Sessions ........................................ 8
- EFRS meets Session ....................................... 11
- Special Focus Session ..................................... 13
- Professional Challenges Sessions ....................... 15
- ESOR Ten-Year Anniversary Session ................... 16
- European Excellence in Education (E²) .................. 17
  - Rising Stars Programme ................................. 19
  - European Diploma Prep Session ....................... 23
- Pros & Cons Session ....................................... 25
- The Voice of EPOS at ECR 2017 ........................ 27
- Refresher Courses/Scientific Sessions ................. 29
  - Radiographers ........................................... 30
  - Breast ..................................................... 32
  - Computer Applications ................................. 32
  - Paediatric ................................................ 32
  - Joint Sessions ............................................ 33
  - European Radiology 25th Anniversary Session ...... 38

## INDUSTRY PROGRAMME
- Satellite Symposia ....................................... 40
- Industry Workshops ....................................... 41

---

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
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 Bezzina (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
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

PRESENTATION OF
GOLD MEDALS
José Ignacio Bilbao; Pamplona/ES
Guy Frija; Paris/FR
Stephen J. Golding; Oxford/UK

GUEST LECTURE
BREAKING NEWS
FROM LATIN AMERICA
How to recognise Zika virus infections on imaging studies  [A-070]
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  [A-261]
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  [A-465]
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  [A-682]
Saturday, March 4
12:15–12:45, Room A

FIONA J. GILBERT
Cambridge/UK
ESOR TEN-YEAR ANNIVERSARY SESSION

Friday, March 3
12:15–13:00, Room A

» Introduction  [A-458]
  P.M. Parizel; Antwerp/BE

» Ten years of ESOR  [A-459]
  N. Gourtsoyiannis; Athens/GR

» How did ESOR influence my professional development  [A-460]
  O. Abeyakoon; Cambridge/UK

» Teaching in ESOR: tutoring scholars and fellows  [A-461]
  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
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
THE FLOWER GARDENS of RADIOLOGY

the annual meeting of
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  
O. Bran; Louette-Saint-Pierre/BE

» Panel discussion
ECR ONLINE 2017

WATCH MORE THAN 1,500 LECTURES ONLINE LIVE OR ON DEMAND
Plan and personalise your ECR 2017 experience with the Interactive Programme Planner.

FREE LIVE VIDEO AND SOCIAL MEDIA STREAM

ONE PLATFORM FOR ALL
ecronline.myESR.org

Powered by

GE Healthcare
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  (A-868)
  - E. Sorantin; Graz/AT  (A-869)

- Informed consent: is this possible in paediatric imaging?  (A-870)
  - J. Portelli; Msida/MT

- Dose reduction in paediatric imaging  (A-871)
  - G. Paulo; Coimbra/PT

- Personality traits: a way of maximising cooperation during paediatric imaging  (A-872)
  - 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.
ESOR Ten-Year Anniversary Session
Friday, March 3, 12:15–13:00
Room A

Introduction
Paul M. Parizel, Antwerp/BE
ESR President

Ten years of ESOR
Nicholas Gourtsoyiannis, Athens/GR
ESOR Scientific/Educational Director

How did ESOR influence my professional development
Oshaani Abeyakoon, Cambridge/UK

Teaching for ESOR: Tutoring scholars and fellows
Christian Loewe, Vienna/AT

Celebration

Education in partnership
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

learn.myESR.org

Brought to you by the

European Society of Radiology
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 L 8**

**BR**  
The professional roles of the radiographer

- **Introduction**  
  H.H. Hjemly; Oslo/NO  [A-601]  
  D. Katsifarakis; Athens/GR  [A-602]
- **Becoming a clinical radiographer:**  
  role, role development and specialisation  [A-603]  
  N.H. Woznitza; London/UK
- **Becoming a clinical manager**  [A-604]  
  E. Kelly; Galway/IE
- **Becoming an academic and/or researcher**  [A-605]  
  S.J. MacKay; Liverpool/UK
- **Working in industry**  [A-606]  
  P. Doherty; Forchheim/DE
- **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

Moderators: K.M. Friedrich; Vienna/AT  
S. Robinson; Vienna/AT
- **Liver**  [A-888]  
  L. Martí-Bonmatí; Valencia/ES
- **Neuro**  [A-889]  
  D. Prayer; Vienna/AT
- **Maxillofacial**  [A-890]  
  S. Robinson; Vienna/AT
- **Musculoskeletal**  [A-891]  
  F. Kainberger; Vienna/AT
- **Genitourinary**  [A-892]  
  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  [A-893]
  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**  [A-898]  
  C. Czerny; Vienna/AT
- **Chest**  [A-899]  
  H. Prosch; Vienna/AT
- **Spine**  [A-900]  
  K.M. Friedrich; Vienna/AT
- **Gastrointestinal**  [A-901]  
  W. Schima; Vienna/AT
- **Breast**  [A-902]  
  M.H. Fuchsjäger; Graz/AT
### Basic Sessions

**E³ – RISING STARS PROGRAMME**

**BASIC SESSIONS**

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Room</th>
<th>Session Title</th>
<th>Level</th>
<th>Moderator</th>
<th>Topics</th>
</tr>
</thead>
</table>
| **1 Mar** | **Wednesday, March 1, 08:30–10:00, Room F1** | Basic Session 1 | Neuroradiology                  | LEVEL 1 | E.T. Tali; Ankara/Tr                        | - White matter disorders [A-030]  
- Brain tumours [A-031]  
- Stroke [A-032]   |
| **1 Mar** | **Wednesday, March 1, 10:30–12:00, Room F1** | Basic Session 2 | Lungs                          | LEVEL 1 | T. Franquet; Barcelona/Es                   | - Congenital anomalies [A-063]  
- Infection [A-064]  
- Tumours [A-065]   |
| **1 Mar** | **Wednesday, March 1, 14:00–15:30, Room F1** | Basic Session 3 | Gastrointestinal diseases      | LEVEL 1 | N. Papanikolaou; Lisbon/Pl                  | - Oesophagus [A-074]  
- Stomach [A-075]  
- Small bowel [A-076]  
- Colon [A-077]   |
| **1 Mar** | **Wednesday, March 1, 16:00–17:30, Room F1** | Basic Session 4 | Gynaecology and obstetrics     | LEVEL 1 | M. Bekiesinska-Figatowska; Warsaw/Pl       | - Benign gynaecological pathologies [A-124]  
- Gynaecological malignancies [A-125]  
- Foetal imaging [A-126]   |
| **2 Mar** | **Thursday, March 2, 08:30–10:00, Room F1** | Basic Session 5 | Head and Neck                  | LEVEL 1 | S.S. Özbek; Izmir/Tr                       | - Sinuses [A-205]  
- Thyroid and parathyroid [A-206]  
- Salivary glands [A-207]  
- Lymph nodes [A-208]   |
| **2 Mar** | **Thursday, March 2, 10:30–12:00, Room F1** | Basic Session 6 | Oncologic therapies            | LEVEL 1 | O. Akhan; Ankara/Tr                        | - Kidney [A-249]  
- Lungs [A-250]  
- Bones [A-251]  
- Liver [A-252]   |
Take the
European Diploma in Radiology

EDiR
YOUR PASSPORT
TO A BETTER CAREER

Next Exams:
July 11+12 (Barcelona, Spain)
September 11 (Linköping, Sweden)
September 17 (Islamabad, Pakistan)
November 11 (Istanbul, Turkey)
December 4 (Paris, France)

More information on
www.myEBR.org
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).

Sunday, March 5, 10:30–12:00, Room F1

E³ 1823 Principles of imaging and radiation protection

» Chairman’s introduction [A-881]
P. Vock; Spiegel/CH

A. Principles of computed tomography [A-882]
W.A. Kalender; Erlangen/DE

B. Principles of magnetic resonance imaging [A-883]
T. Metens; Brussels/BE

C. Radiation protection [A-884]
M. Mahesh; Baltimore, MD/US
VIRTUAL SKYDIVE
JUMP THROUGH THE HISTORY OF RADIOLOGY

VISIT US IN EXHIBITION HALL X1
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.

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. Nyhse; Sunderland/UK

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

PICK UP THE MICROPHONE
and be a Star

JOIN US FOR 80 SESSIONS ON THREE STAGES IN AND AROUND THE ECR ONLINE & EPOS LOUNGE (1st LEVEL)

myESR.org/epos
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*.

<table>
<thead>
<tr>
<th>2 March</th>
<th>Thursday, March 2, 09:00-10:00, Stage 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>VoE 68</td>
<td>Radiographers</td>
</tr>
<tr>
<td>Moderator: K. Taylor; Cambridge/UK</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3 March</th>
<th>Friday, March 3, 14:00-15:00, Stage 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>VoE 50</td>
<td>Radiographers</td>
</tr>
<tr>
<td>Moderator: L. Lança; Lisbon/PT</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4 March</th>
<th>Saturday, March 4, 13:00-14:00, Stage 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>VoE 86</td>
<td>Radiographers</td>
</tr>
<tr>
<td>Moderator: K. Taylor; Cambridge/UK</td>
<td></td>
</tr>
</tbody>
</table>
When you’ve checked in to ECR 2017 on Swarm, catch up with latest #ECR2017 news on Twitter, become a fan and post us a photo on Facebook, then check out our videos on YouTube and stay connected on LinkedIn.

myESR.org
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.
**Radiographers**

### March 1

**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 [A-044]  
M.C. Yiannakas; London/UK  
B. RF-related heating in clinical MRI [A-045]  
T. Owman; Lund/SE  
C. The benefits of diffusion imaging [A-046]  
J. Castilo; Msida/MT  
» Discussion and questions: How is patient care affected by MRI technology and techniques?

### March 1

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

**SS 214** CT imaging  
[K-03, B-0132 – B-0141]  
**Moderators:** K. Muscat; Birkirkara/MT  
A. Palkó; Szeged/HU

### March 1

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

**SS 314** MR imaging  
[B-0315 – B-0325]  
**Moderators:** L. Natale; Rome/IT  
K. Taylor; Cambridge/UK

### March 1

**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 [A-139]  
J. Kroll; Maastricht/NL  
B. Conventional radiography in major trauma: role, technique modification and impact on interpretation [A-140]  
M. Hardy; Bradford/UK  
C. Applications of ultrasound in the evaluation of major trauma [A-141]  
T. Herlithy; Dublin/IE  
» Discussion and questions: Imaging of major trauma - what are the challenges

### March 2

**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 [A-220]  
J. Santos; Coimbra/PT  
B. Optimising CT doses [A-221]  
F. Zarb; Msida/MT  
C. State-of-the-art CT technology [A-222]  
S.D. Mørup; Odense/DK  
» Discussion and questions: Optimisation of care in CT: what else may be done?

### March 2

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

**SS 614** Dose optimisation  
[B-0488 – B-0498]  
**Moderators:** M. Mechl; Brno/CZ  
L.A. Rainford; Dublin/IE

### March 2

**Thursday, March 2, 14:00-15:30, Room K**

**SS 714** Breast imaging  
[B-0661 – B-0671]  
**Moderators:** C. Falzon; Sta. Lucia/MT  
S. Zackrisson; Malmö/SE

### March 2

**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? [A-342]  
E. Metsälä; Helsinki/FI  
B. The assessment of clinical knowledge, skills and competences for pre- and post- registration radiographers [A-343]  
L. Robinson; Salford/UK  
C. Clinical placements: the challenges ahead [A-344]  
L.A. Rainford; Dublin/IE  
» Discussion and questions: Education and training: what is the way forward?
Radiographers

**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. McFadden; 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**  
(B-0820 – B-0830)

Moderators: M. Hailemichael; Lund/SE  
J. Reponen; Raahe/FI

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

**SS 1414  Radiography education**  
(K-20, B-0973 – B-0982)

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**  
(B-1177 – B-1186)

Moderators: B.T. Andersson; Lund/SE  
D. Prayer; Vienna/AT

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

**SS 1914  Radiography practice**  
(B-1358 – B-1368)

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**  
[LEVEL II]

» 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?

**Computer Applications**

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

**RC 805  Daily use of mobile devices in radiology**  
[LEVEL II]

» 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?

**Paediatric**

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

**RC 1212  Dose reduction: tips and tricks**  
[LEVEL II]

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.

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

**RC 1605  Will the good old PACS disappear?**  
[LEVEL II]

» 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  
M. Fatehi; Tehran/IR

C. Will cloud-based PACS cause the traditional PACS to evaporate?  
J. Schillebeeckx; Knokke/BE

» Panel discussion: How will increased interconnection affect radiologists’ day-to-day life?
JOINT SESSIONS
EMOMP 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  [A-414]
J. Damilakis; Iraklion/GR
» Radiation incidents and accidents in CT  [A-415]
M. Mahesh; Baltimore, MD/US
» Radiation incidents and accidents in interventional suites  [A-416]
R.W.R. Loose; Nürnberg/DE
» Accidental exposure during pregnancy  [A-417]
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  [A-446]
M. Brambilla; Novara/IT
» Incidents and accidents in MRI  [A-447]
D.J. Lurie; Aberdeen/UK
» Radiation incidents and accidents in nuclear medicine  [A-448]
M. Brambilla; Novara/IT
» Management of incidents and accidents in imaging departments: the role and responsibilities of medical physicists  [A-449]
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  [A-802]
G. Paulo; Coimbra/PT
» Why publish your work?  [A-803]
F. Zarb; Msida/MT
» Journal selection: aims and scope, audience and metrics  [A-804]
J.M. Nightingale; Salford/UK
» Ethics of publishing  [A-805]
J. McNulty; Dublin/IE
» Things to consider: the reviewer’s perspective  [A-806]
A. England; Salford/UK
» Editor's ten top tips for publishing success  [A-807]
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?
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  [A-664]
  B.E. Kelly; Belfast/UK  [A-665]

» The work of the ESR Audit & Standards Subcommittee in collaboration with ESR-PAG
  B.E. Kelly; Belfast/UK  [A-666]

» Patients’ perspective
  D. Walsh; Dublin/IE  [A-667]
  E. Briers; Hasselt/BE  [A-668]

» Example of good practice: implementing a patient satisfaction questionnaire in your radiology department
  D.-G. Carrié; Toulouse/FR  [A-669]

» 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  [A-774]
  B. Brkljačić; Zagreb/HR

» European developments within data management, standardisation, access and protection
  P. Mildenberger; Mainz/DE  [A-775]

» Patients’ point of view
  N. Bedlington; Vienna/AT  [A-776]
  E. Briers; Hasselt/BE  [A-777]

» Current US status pros and cons and issues
  J.A. Brink; Boston, MA/US  [A-778]

» Panel discussion: Importance of data management in modern medicine - what are the main issues to be addressed?
EUROSAFE IMAGING SESSIONS

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

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

**Moderators:** W. Stiller; Heidelberg/DE  
J. Damilakis; Iraklion/GR

» 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.*

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

» 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

» Questions and answers

*This session is part of the EuroSafe Imaging campaign.*
PROFESSIONAL ISSUES AND ECONOMICS IN RADIOLOGY (PIER) SESSIONS

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? [A-450]
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? [A-452]
G. Paulo; Coimbra/PT

D. Making the business case for patient-centred imaging care [A-453]
M.H. Maurer; Berne/CH

» Panel discussion

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 [A-478]
B. Brkljačić; Zagreb/HR

B. Utilisation of equipment: what is appropriate? The public healthcare system’s perspective [A-479]
P. Leander; Malmö/SE

C. Utilisation of equipment: what is appropriate? The private healthcare system’s perspective [A-480]
A. Palkó; Szeged/HU

D. Radiology: a cost factor? The hospital manager’s perspective [A-481]
P. Garel; Brussels/BE

» Panel discussion

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

Joint Session of the ESR and the CIRSE (Cardiovascular and Interventional Radiological Society of Europe)

Interventional procedures: clinical patient management

Moderators:  E. Brountzos; Athens/GR
L. Donoso; Barcelona/ES

» Chairmen’s introduction
E. Brountzos; Athens/GR
L. Donoso; Barcelona/ES

» BEFORE: pre-intervention procedures and protocols
C. Binkert; Winterthur/CH

» DURING: patient management, communication, time out procedure, ...
J.I. Bilbao; Pamplona/ES

» AFTER: patient follow up and discharge procedures
O.M. van Delden; Amsterdam/NL

» The role of radiographers and nurses in the interventional radiology suite: tasks and duties
C. McLaren; London/UK

» Discussion
Celebrating 25 YEARS of European Radiology
Friday, March 3, 16:00–17:30, Room Z

Moderators: M.F. Reiser; Munich/DE
A.L. Baert; Leuven/BE
A.K. Dixon; Cambridge/UK

Introduction: 25 years of European Radiology [A-500]
M.F. Reiser; Munich/DE

How to present research data consistently in a scientific paper [A-501]
M. Laniado; Dresden/DE

Cost considerations regarding an integrated CT-PET system [A-502]
G.K. von Schulthess; Zurich/CH

Role of contrast-enhanced helical CT in the evaluation of acute thoracic aortic injuries after blunt chest trauma [A-503]
M. Scaglione; Castel Volturno/IT

CT angiography of pulmonary embolism in patients with underlying respiratory disease: impact of multislice CT on image quality and negative predictive value [A-504]
M. Rémy-Jardin; Lille/FR

CT colonography: effect of experience and training on reader performance [A-505]
S. Halligan; Leeds/UK

First performance evaluation of a dual-source CT (DSCT) system [A-506]
T.G. Flohr; Forchheim/DE

Gd-EOB-DTPA-enhanced magnetic resonance images of hepatocellular carcinoma: correlation with histological grading and portal blood flow [A-507]
T. Murakami; Osaka/JP

ESUR prostate MR guidelines 2012 [A-508]
J.O. Barentsz; Nijmegen/NL

Nephrogenic systemic fibrosis and gadolinium-based contrast media: updated ESUR Contrast Medium Safety Committee guidelines [A-509]
H.S. Thomsen; Herlev/DK

Iterative reconstruction techniques for computed tomography Part 1: Technical principles [A-510]
M.J. Willemink; Utrecht/NL
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.

For details of the programmes see separate booklet ‘Industry Programme & On-Show Guide’.
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.

For details of the programmes see separate booklet ‘Industry Programme & On-Show Guide’.
ESR EXECUTIVE COUNCIL

BOARD OF DIRECTORS
Chairperson of the ESR Board of Directors ................................................................. Katrine Riklund; Umeå/SE
President .................................................................................................................. Paul M. Parizel; Antwerp/BE
1st Vice-President .................................................................................................. Bernd Hamm; Berlin/DE
2nd Vice-President ................................................................................................. Lorenzo E. Derchi; Genoa/IT
Immediate Past-President ...................................................................................... Luis Donoso; Barcelona/ES

COMMITTEE CHAIRS
Communication and External Affairs Committee Chairperson ................................. Boris Brkljačić; Zagreb/HR
ECR 2017 Programme Planning Committee Chairperson ............................................ Paul M. Parizel; Antwerp/BE
ECR 2018 Programme Planning Committee Chairperson ............................................ Bernd Hamm; Berlin/DE
Education Committee Chairperson .......................................................................... Laura Oleaga; Barcelona/ES
Finance and Internal Affairs Committee Chairperson ............................................... Michael Fuchsjäger; Graz/AT
National Societies Committee Chairperson ............................................................. Christoph D. Becker; Geneva/CH
Publications Committee Chairperson ....................................................................... Regina Beets-Tan; Amsterdam/NL
Quality; Safety and Standards Committee Chairperson ............................................ E. Jane Adam; London/UK
Research Committee Chairperson ........................................................................... Olivier Clément; Paris/FR
Subspecialties and Allied Sciences Committee Chairperson ........................................ Catherine M. Owens; London/UK

NON-VOTING
Director of the European School of Radiology (ESOR) ................................................ Nicholas Gourtsoyiannis; Athens/GR
Executive Director ................................................................................................. Peter Baierl; Vienna/AT
ECR 2017 PROGRAMME PLANNING COMMITTEE

Chairperson (President) ....................................................................................... M. Szczero-Trojanowska; Lublin/PL
Deputy Chairperson (1st Vice-President) ............................................................... B. Brkljačić; Zagreb/HR
President of the preceding congress ................................................................... K. Riklund; Umeå/SE
ESR Executive Director ....................................................................................... P. Baierl; Vienna/AT
Chairperson of the Finance and Internal Affairs Committee ............................. M.H. Fuchsjäger; Graz/AT
Chairperson of the Education Committee ........................................................... L. Oleaga Zufiría; Barcelona/ES

POSTGRADUATE EDUCATIONAL PROGRAMME SUBCOMMITTEE
Chairperson: H.-U. Kauczor; Heidelberg/DE
Members: P. Bezzina; Msida/MT
P. Brader; Graz/AT
M. Dewey; Berlin/DE
A.J. Grainger; Leeds/UK
R. Iezzi; Rome/IT
K. Rosendahl; Bergen/NO
D. Sappey-Marinier; Bron/FR
M. Stajgis; Poznan/PL
H.C. Thoeny; Berne/CH
A. Torresin; Milan/IT
J. Van Goethem; Antwerp/BE
M. Zins; Paris/FR

SCIENTIFIC PAPERS SUBCOMMITTEE
Chairperson: B. Brkljačić; Zagreb/HR
Members: I. Arkhipova; Moscow/RU
V. Bérczi; Budapest/HU
V.J. Goh; London/UK
A. Rita Larić; Rome/IT
A. Oktay; Izmir/TR
J. Reponen; Raathe/Fi
B. Verbist; Leiden/NL

SECTION COORDINATORS
EPOS Editor ........................................................................................................ M.I. Argyropoulou; Ioannina/GR

EUROPEAN EXCELLENCE IN EDUCATION (E³)
E³ – Rising Stars Programme ............................................................................. M. Szczero-Trojanowska; Lublin/PL

E³ – European Diploma Prep Sessions ............................................................... B. Ertl-Wagner; Munich/DE

E³ – ECR Academies
Tips and Tricks in Liver, Bile Ducts and Pancreas Imaging ................................ Y. Menu; Paris/FR
Spinal Imaging .................................................................................................... E. Llopis; Valencia/ES,
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

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

JUNIOR IMAGE INTERPRETATION QUIZ .................................................... A. Snoeckx; Antwerp/BE

EVALUATION .................................................................................................... M.H. Fuchsjäger; Graz/AT

E-LEARNING ..................................................................................................... M. Maas; Amsterdam/NL

ESR SUBSPECIALTIES AND ALLIED SCIENCES COMMITTEE CHAIRPERSON ......................................................................................................................... C. Owens; London/UK

ESR ADVISOR ON ‘NEW MEDIA’ .................................................................. K. Friedrich; Vienna/AT
### SCIENTIFIC SUBCOMMITTEES

#### ABDOMINAL AND GASTROINTESTINAL

The ESR would like to thank **ESGAR** for their cooperation on this subcommittee.

<table>
<thead>
<tr>
<th>Chairpersons:</th>
<th>S.A. Jackson; Plymouth/UK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T. Mang; Vienna/AT</td>
</tr>
</tbody>
</table>

**Abdominal Viscera**

<table>
<thead>
<tr>
<th>Members:</th>
<th>G. Böhnm; Linz/AT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L. Curvo-Semede; Coimbra/PT</td>
</tr>
<tr>
<td></td>
<td>A.A. Hatzidakis; Iraklion/GR</td>
</tr>
<tr>
<td></td>
<td>M. Karcaaltincaba; Ankara/TR</td>
</tr>
<tr>
<td></td>
<td>D.M. Lambregts; Maastricht/NL</td>
</tr>
<tr>
<td></td>
<td>M. Laniado; Dresden/DE</td>
</tr>
<tr>
<td></td>
<td>M. Lewin-Zeitoun; Villejuif/FR</td>
</tr>
<tr>
<td></td>
<td>E.M. Merkle; Basle/CH</td>
</tr>
<tr>
<td></td>
<td>M. Staunton; Cork/IE</td>
</tr>
<tr>
<td></td>
<td>A. Torregrosa Andrés; Valencia/ES</td>
</tr>
<tr>
<td></td>
<td>V. Vandecaveye; Leuven/BE</td>
</tr>
</tbody>
</table>

**GI Tract**

<table>
<thead>
<tr>
<th>Members:</th>
<th>E. Biscaldi; Genoa/IT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S. Mehmert Ertürk; İstanbul/TR</td>
</tr>
<tr>
<td></td>
<td>S. Kinne; Essen/DE</td>
</tr>
<tr>
<td></td>
<td>M.J. Lahaye; Amsterdam/NL</td>
</tr>
<tr>
<td></td>
<td>I.G. Lupescu; București/RO</td>
</tr>
<tr>
<td></td>
<td>A.J.B.S. Madureira; Porto/PT</td>
</tr>
<tr>
<td></td>
<td>V. Maniatis; Aabenraa/DK</td>
</tr>
<tr>
<td></td>
<td>M. Radzina; Riga/LV</td>
</tr>
<tr>
<td></td>
<td>J. Rimola; Barcelona/ES</td>
</tr>
<tr>
<td></td>
<td>S. Terraz; Geneva/CH</td>
</tr>
<tr>
<td></td>
<td>D.J.M. Tolan; Leeds/UK</td>
</tr>
<tr>
<td></td>
<td>C. Weninger; Arvika/SE</td>
</tr>
</tbody>
</table>

**BREAST**

The ESR would like to thank **EUSOBI** for their cooperation on this subcommittee.

<table>
<thead>
<tr>
<th>Chairperson:</th>
<th>F. Pediconi; Rome/IT</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Members:</th>
<th>A. Athanasiou; Athens/GR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>K. Borbély; Budapest/HU</td>
</tr>
<tr>
<td></td>
<td>B. Brljačić; Zagreb/HR</td>
</tr>
<tr>
<td></td>
<td>E.J. Cornford; Nottingham/UK</td>
</tr>
<tr>
<td></td>
<td>E.M. Fallenberg; Berlin/DE</td>
</tr>
<tr>
<td></td>
<td>R.M. Pijnappel; Utrecht/NL</td>
</tr>
<tr>
<td></td>
<td>L.J. Pina Insuausti; Pamplona/ES</td>
</tr>
<tr>
<td></td>
<td>C. Van Ongeval; Leuven/BE</td>
</tr>
</tbody>
</table>

#### CARDIAC

The ESR would like to thank the **ESCR** for their cooperation on this subcommittee.

<table>
<thead>
<tr>
<th>Chairperson:</th>
<th>K. Nikolaou; Tübingen/DE</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Members:</th>
<th>O. Duvernoy; Uppsala/SE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M. Francone; Rome/IT</td>
</tr>
<tr>
<td></td>
<td>S. Harden; Southampton/UK</td>
</tr>
<tr>
<td></td>
<td>M. Hrabak Paar; Zagreb/HR</td>
</tr>
<tr>
<td></td>
<td>A. Jacquier; Marseille/FR</td>
</tr>
<tr>
<td></td>
<td>G.I. Kirova-Nedialkova; Sofia/BG</td>
</tr>
<tr>
<td></td>
<td>T. Leiner; Utrecht/NL</td>
</tr>
<tr>
<td></td>
<td>C. Loewe; Vienna/AT</td>
</tr>
<tr>
<td></td>
<td>K. Pagonidis; Iraklion/GR</td>
</tr>
<tr>
<td></td>
<td>R.J. Perea; Barcelona/ES</td>
</tr>
<tr>
<td></td>
<td>G. Sommer; Basle/CH</td>
</tr>
<tr>
<td></td>
<td>M. Urbanczyk-Zawadzka; Krakow/PL</td>
</tr>
</tbody>
</table>

#### CHEST

The ESR would like to thank **ESTI** for their cooperation on this subcommittee.

<table>
<thead>
<tr>
<th>Chairperson:</th>
<th>A.R. Larici; Rome/IT</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Members:</th>
<th>L. Bakon; Warsaw/PL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P.-Y. Brillet; Bobigny/FR</td>
</tr>
<tr>
<td></td>
<td>J. Broncano; Cordoba/ES</td>
</tr>
<tr>
<td></td>
<td>A. Christe; Berne/CH</td>
</tr>
<tr>
<td></td>
<td>M. Das; Maastricht/NL</td>
</tr>
<tr>
<td></td>
<td>A. Devaraj; London/UK</td>
</tr>
<tr>
<td></td>
<td>G.H. Mostbeck; Vienna/AT</td>
</tr>
<tr>
<td></td>
<td>E. Öztürk; Istanbul/TR</td>
</tr>
<tr>
<td></td>
<td>C.A. Ridge; Dublin/IE</td>
</tr>
<tr>
<td></td>
<td>H.-O. Shin; Hannover/DE</td>
</tr>
<tr>
<td></td>
<td>A. Snoeckx; Antwerp/BE</td>
</tr>
<tr>
<td></td>
<td>S. Vdnjol Donlagic; Maribor/SI</td>
</tr>
</tbody>
</table>

#### COMPUTER APPLICATIONS

The ESR would like to thank **EuSoMII** for their cooperation on this subcommittee.

<table>
<thead>
<tr>
<th>Chairperson:</th>
<th>S. Morozov; Moscow/RU</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Members:</th>
<th>A. Alberich-Bayarri; Valencia/ES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L. Faggioni; Pisa/IT</td>
</tr>
<tr>
<td></td>
<td>E. Kotter; Freiburg/DE</td>
</tr>
<tr>
<td></td>
<td>W.J. Niessen; Rotterdam/NL</td>
</tr>
<tr>
<td></td>
<td>P. Pokieser; Vienna/AT</td>
</tr>
<tr>
<td></td>
<td>N. Pyatigorskaya; Paris/FR</td>
</tr>
</tbody>
</table>
MOLECULAR IMAGING
The ESR would like to thank ESMOFIR for their cooperation on this subcommittee
Chairperson: ........................................ F.A. Gallagher; Cambridge/UK
Members: ........................................ C.C. Cyran; Munich/DE
........................................ M. de Jong; Rotterdam/NL
........................................ J.-Y. Gauvrit; Rennes/FR
........................................ T.H. Helbich; Vienna/AT
........................................ R.J. Méndez; Madrid/ES

GENITOURINARY
The ESR would like to thank ESR for their cooperation on this subcommittee
Chairperson: ........................................ J. Venancio; Lisbon/PT
Members: ........................................ C.D. Alt; Düsseldorf/DE
........................................ M. Bertolotto; Trieste/IT
........................................ M. Claudon; Vandoeuvre-les-Nancy/FR
........................................ P. De Visschere; Ghent/BE
........................................ R. García Figueiras; Santiago de Compostela/ES
........................................ K. Kubin; Salzburg/AT
........................................ O. Nikolic; Novi Sad/RS
........................................ J. Richenberg; Brighton/UK
........................................ M. Secc; Izmir/TR
........................................ P. Steiger; Berne/CH
........................................ M. Studniarek; Gdansk/PL
........................................ A. Tsili; Ioannina/GR

HEAD AND NECK
The ESR would like to thank the ESNR for their cooperation on this subcommittee
Chairperson: ........................................ A. Trojanowska; Lublin/PL
Members: ........................................ A. Allianou; Geneva/CH
........................................ B. De Foer; Wilrijk-Antwerp/BE
........................................ S. Gerevini; Milan/IT
........................................ E. Kharlamova; Samara/RU
........................................ M. Lell; Nürnberg/DE
........................................ E. Loney; Darlington/UK
........................................ A. Markkola; Helsinki/FI
........................................ S. Steens; Nijmegen/NL

INTERVENTIONAL RADIOLOGY
The ESR would like to thank CIRSE for their cooperation on this subcommittee
Chairperson: ........................................ A. Basile; Catania/IT
Members: ........................................ X. Buy; Bordeaux/FR
........................................ C. Cantwell; Dublin/IE
........................................ M. Casares; Guadalajara/ES
........................................ A. Denys; Lausanne/CH
........................................ A. Dimopoulou; Uppsala/SE
........................................ J. Kettenbach; St. Pölten/AT
........................................ K. Koula; Neo Falirio/GR
........................................ B. Peyrin-Coglio; Ankara/TR
........................................ L.A. Ratnam; London/UK
........................................ T. Rodt; Hannover/DE
........................................ G. Sandbaek; Oslo/NO
........................................ C. Tziakouri-Shiaxalli; Nicosia/CY

MUSCULOSKELETAL
The ESR would like to thank the ESSR for their cooperation on this subcommittee
Chairperson: ........................................ C.W.A. Pfirrmann; Zurich/CH
Members: ........................................ A. Alcalá-Galiano; Madrid/ES
........................................ A. Barile; L’Aquila/IT
........................................ C. Cyteval; Montpellier/FR
........................................ M.C. de Jonge; Amsterdam/NL
........................................ F.E. Lecouvet; Brussels/BE
........................................ V. Njugulj; Sremška Kamenica/RS
........................................ I.-M. Noebauer-Huhmann; Vienna/AT
........................................ O. Papakonstantinou; Athens/GR
........................................ A.P. Parkar; Bergen/NO
........................................ I. Sudol-Szpóinska; Warsaw/PL
........................................ J. Teh; Oxford/UK
........................................ M.-A. Weber; Heidelberg/DE

NEURO
The ESR would like to thank the ESNR for their cooperation on this subcommittee
Chairperson: ........................................ Z. Merhemic; Sarajevo/BA
Members: ........................................ M. Bekiesinska-Figatowska; Warsaw/PL
........................................ A. Dörfler; Erlangen/DE
........................................ P. Due-Tønnessen; Oslo/NO
........................................ C. Hoffmann; Tel Hashomer/IL
........................................ H.R. Jäger; London/UK
........................................ N. Kocer; Istanbul/TR
........................................ A. Krainik; Grenoble/FR
........................................ S. Looby; Dublin/IE
........................................ A. Ramos; Madrid/ES
........................................ K. Surlan Popović; Ljubljana/SI
........................................ L. van den Hauwe; Antwerp/BE
........................................ D. Zlateva; Sofia/BG
ECR 2017 Committees

SCIENTIFIC SUBCOMMITTEES

PAEDIATRIC
The ESR would like to thank the ESPR for their cooperation on this subcommittee
Chairperson: R.A.J. Nievieinstein; Utrecht/NL
Members: E. Alexopoulou; Athens/GR
I. Barber; Barcelona/ES
C.E. de Lange; Oslo/NO
S. Franchi-Abella; Le Kremlin-Bicêtre/FR
D. Klijucsevsek; Ljubljana/SI
G.M. Magnano; Genoa/IT
A.C. Offiah; Sheffield/UK
E. Sorantin; Graz/AT

PHYSICS IN RADIOLOGY
The ESR would like to thank EFOMP for their cooperation on this subcommittee
Chairperson: D.J. Lurie; Aberdeen/UK
Member: R. Boellaard; Amsterdam/NL
C.J. Caruana; Msida/MT
J. Damilakis; Iraklion/GR
V. Gershon; Skopje/NK
L. Hadid; Bondy/FR
E. Samara; Lausanne/CH
J. Sijbers; Antwerp/BE
A. Trianni; Udine/IT

EMERGENCY RADIOLOGY
The ESR would like to thank ESER for their cooperation on this subcommittee
Chairperson: R. Basilico; Chieti/IT
Members: J.M. Artigas; Zaragoza/ES
A. England; Manchester/UK
S.J. Foley; Dublin/IE
L.J.O.C. Lança; Lisbon/PT
E. Metsälä; Helsinki/FI
V. Syrgiamiotis; Athens/GR

VASCULAR
The ESR would like to thank CIRSE for their cooperation on this subcommittee
Chairperson: T. Jargiello; Lublin/PL
Members: I. Bargellini; Pisa/IT
M. Burrel; Barcelona/ES
C. Hohl; Siegen/DE
J.B.C.M. Puylaert; The Hague/NL
K. van Lienden; Amsterdam/NL
F. Wolf; Vienna/AT

ONCOLOGIC IMAGING
The ESR would like to thank ESOI for their cooperation on this subcommittee
Chairperson: K. Coenegrachts; Bruges/BE
Members: B. Alicioglu; Ankara/TR
M. Krokidis; Cambridge/UK
M. Maas; Maastricht/NL
M. Slattery; Cavan/IE
M. Tsitskari; Athens/GR
G. Zamboni; Verona/IT
C.J. Zech; Basle/CH

RADIOGRAPHERS
The ESR would like to thank the EFRS for their cooperation on this subcommittee
Chairpersons: P. Bezizza; Msida/MT
P.C. Maly Sundgren; Lund/SE
Members: R. Decoster; Brussels/BE
A. England; Manchester/UK
S.J. Foley; Dublin/IE
L.J.O.C. Lança; Lisbon/PT
E. Metsälä; Helsinki/FI
V. Syrgiamiotis; Athens/GR
ECR 2017 TOPIC COORDINATORS

**E3 – EUROPEAN EXCELLENCE IN EDUCATION**

**E3 – Rising Stars Programme**

- M. Szczero-Trojanowska; Lublin/PL
- N. Gourtsoyiannis; Athens/GR
- 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**

- Y. Menu; Paris/FR
- E. Llopis; Valencia/ES,
- L. van den Hauwe; Antwerp/BE
- G.H. Mostbeck; Vienna/AT
- P.M. Parize; Antwerp/BE
- M.G. Mack; Munich/DE

**E3 – Master Classes**

- T. Mang; Vienna/AT, S.A. Jackson; Plymouth/UK
- F. Pediconi; Rome/IT
- K. Nikolaou; Tübingen/DE
- A.R. Larici; Rome/IT
- F.A. Gallagher; Cambridge/UK
- J. Venancio; Lisbon/PT
- A. Trojanowska; Lublin/PL
- A. Basile; Catania/IT
- C.W.A. Pfirrmann; Zurich/CH
- Z. Merhemic; Sarajevo/BA
- R.A.J. Nievelstein; Utrecht/NL
- T. Jargiello; Lublin/PL
- K. Coenegrachts; Bruges/BE
- R. Basilio; Chieti/IT

**MINI COURSE**

- Joint Course of ESR and RSNA
  - Hybrid Imaging
    - A. Drrezga; 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