You have elected: ESMI Board members

Thanks to all ESMI members who participated in the election for the new ESMI Council members!

39% of the members assigned their vote. Together with the Executive Committee the elected Council members define the main direction and activities of the society and shall represent the interests of you: the ESMI members. Like any other organisation, we are the sum of our people - grateful to everyone who is contributing - thanks to all of you for your commitment and dedication.
ESMI Award for excellent PhD thesis 2014

The society’s PhD Award for an excellent PhD thesis is offered for the purpose of encouraging and rewarding outstanding research in the broad field of Imaging Science conducted by our young members. We are happy to support and to dignify the efforts of our young members by raising awareness for their work and to acknowledge their contribution to the interdisciplinary research field.

We would like to invite all young scientists working in the broad field of Imaging Science to apply for the ESMI Award for excellent PhD thesis.

Award Committee
- Michal Neeman - Rehovot, Chair
- Emmanuelle Canet-Soulas - Lyon
- Giuseppe Digilio - Torino
- Mathias Hoehn - Cologne,
- Twan Lammers - Aachen

Successful candidates
- you are invited to present your research within a Plenary Lecture at the EMIM 2015
- your excellent work will be acknowledged with 1000€
- you will be acknowledged at the “winner” page of the ESMI website
- the winners will be announced within the ESMI newsletter
- you’ll receive a free one year ESMI membership incl. subscription to the MIB journal

Read more about the eligibility criteria, the application procedure at www.e-smi.eu/index.php?id=2451

Read more about being an ESMI member, membership types, benefits, and sign in at www.e-smi.eu/index.php?id=1977

ESMI membership 2015

Especially in times of restricted resources the further establishment of a strong (European) Imaging Community represented by one apolitical, non-profit entity and dedicated to imaging science is needed in order to advocate your field of research and secure funding.

We are convinced by the ESMI’s interdisciplinary approach, the focus on science, and the open-minded people. Therefore, we would like to encourage you to get “on board”, to become an active member of the society, and encourage your colleagues and collaborators to join.

Take also advantage of the several “individual” benefits of being an ESMI member such as participation in study groups, e-newsletter, and access to e-learning lectures, journal subscription, reduced meeting fees for EMIM, TOPIM, WMIC, most recent information on open calls and funding opportunities […].

Currently the ESMI is formed by 812 members – be warmly invited to join!
On behalf of the ESMI President Bernd Pichler it is with great pleasure to invite you to Tübingen for the 10th annual meeting of the ESMI! The EMIM 2015 is the 10th annual meeting of the European Society for Molecular Imaging.

With the EMIM 2015 we can just provide you with a platform for interdisciplinary knowledge exchange in the broad field of IMAGING SCIENCES. But it is on you to contribute, to fill this approach with life by submitting your work, putting your findings up for discussion, to benefit from the expertise of the other participants, and to offer your expertise in order to make it a truly interdisciplinary and inspiring forum.

Date: 18-20 March 2015
Venue: Kupferbau Tuebingen
www.emim.eu

Deadlines
9 December 2014 | DEADLINE for Abstract Submission
29 January 2015 | end of early registration rate

It’s all about you!
Programme and category chairs, subchairs and reviewers can support the shaping of the programme BUT the programme is done by you! The more abstracts are submitted in "your" field of research, the more sessions will be dedicated to this field. The session topics will be only defined AFTER the abstract deadline in accordance with the number and quality of abstracts per category.

Abstract categories
- Oncology
- Cardiology
- Imaging Probes, Chemistry & Reporter Genes
- Immunology/Inflammation
- Infectious Diseases
- Neurology
- Imaging Technology, Methodology & Software
- Others

General schedule | start & end
Start of the EMIM 2015 | Wednesday 18 March
08:30h Industry Sessions (if applicable)
11:00h youngESMI event
12:30h Educational Sessions
16:00h Opening Ceremony

End of the EMIM 2015 | Friday 20 March
17:00h YIA final, Highlight Lecture, Awarding Ceremonies
First insights into the programme
Session Types, keynote speakers, educational topics ...

The Educational Sessions are scheduled for Wednesday 18 March from 12:30h-15:30h – right before the Opening Ceremony at 16:00h. There will be 4 educational sessions in parallel - see also right hand side. We hope you like it!

The Plenary Lectures shall represent - beside the "usual" themes - topics closely related to your research field with an increase in interest and relevance. One Plenary Lecture is dedicated to the winners of the ESMI award for excellent PhD thesis 2014 and the ESMI award winner 2015.

The Parallel Sessions start in general with an overview talk of about 25 min followed by the talks chosen from the abstract submissions.

Study Group meetings are organised by the ESMI Study Groups and are at the same time their annual SG meeting open for everybody who is interested.

Focus Sessions are jointly organised by related societies. The set-up differs from the parallel sessions: three talks á 30 min will be given. Joint sessions are held in cooperation with the European Association of Nuclear Medicine – EANM, European Society for Radiology – ESR, and European Microscopy Society – EMS.

Keynote Speakers so far
- Simon Cherry - UC Davis
- Zaal Kokaia - University of Lund
- Patricia Price - Imperial College London
- Jeff Bulte - John Hopkins Baltimore
- Juri Gelovani - Wayne State University

Educational sessions & organizers
- Biology and Imaging of inflammation and immunology
  organized by Daniel Engel, Essen
- Imaging, genomics and tumour heterogeneity
  organized by Kevin Brindle, Cambridge
- Multi-modality and Hybrid Imaging Equipment
  organized by Sibylle Ziegler, Munich
- Standardisation: Instrumentation, data analysis, imaging protocols
  organized by Marc Huisman, Amsterdam

Awards & Support opportunities

EMIM 2015 excellence award for young researchers

This award is offered for the purpose of encouraging and rewarding the submission of your outstanding research in the field of Imaging Science by young scientists. Your award certificate which will be presented during the Closing ceremony in Tübingen. Deadline for application is 7 January 2015!

EMIM 2015 Travel Support

The ESMI is offering travel support for the EMIM 2015. This travel support is preferably given to younger scientists. Who shall apply? You are at an early stage of your research career and eager to join the EMIM in order to learn and discuss your work but you need financial support to attend? The travel support is NOT meant as award for excellent science and shall accordingly not be added to your CV in that way. Deadline for application is 12 January 2015!

for application & eligibility criteria, abstract submission & registration
www.emim.eu
EMIM 2015 registration, accommodation & fees

Deadline for early bird registration is 29 January 2015

We are doing our best to keep the registration fee as low as possible and to ensure the best possible surrounding conditions to provide you with a platform for interaction, learning, and interdisciplinary knowledge exchange in the field of imaging science! **The registration fees haven't been changed for five years and include:**

- Attendance fee
- Coffee breaks and lunches
- Opening reception 18 March
- Access to conference sessions and exhibition
- EMIM conference material
- Registration to the industry sessions free of charge
- Registration to the Educational Sessions (additional 10€ to ensure attendance)
- free NALDO ticket which allows free local transportation within the Local Public Transport Concept (NALDO)

### Registration fees

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<td>Regular fee member:</td>
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**Within the registration process you can**

- sign in for the educational sessions
- register to the industry sessions
- to the "get-together" and
- reserve your hotel room in Tübingen

Opening of REGISTRATION by mid of November 2014.

Welcome to Tübingen!

**Small steps, narrow alleys** and pointed gables shape the silhouette of old Tübingen on the way up to its castle. The Swabian university town of **86,000** inhabitants and **27,000** students combines the flair of a lovingly restored **medieval centre** of town with the colorful bustle and typical atmosphere of a young and cosmopolitan **students’ town**. Numerous sidewalk **cafes**, **wine taverns and students’ pubs**, shops, restaurants and taverns invite visitors to stroll around and to pause here and there. Taking a boat trip in a famous **“Stocherkahn”** – the boat exclusive to Tübingen navigated by a long wooden pole – offers a scenic view of the picturesque Neckar waterfront with the famous Hölderlin Tower.
People behind

Without your commitment and dedication for Imaging Science the organization of one strong European Imaging Meeting on the highest scientific level would never be possible. Thanks for contributing with your time, your expertise, and all the open minded discussions!

Contribute with your work!

www.emim.eu

How many people do you know?

The Programme Chair and Vice Chair are responsible for the overall scientific concept and supervision of programme shaping. Category chairs (italic) and subchairs form one team responsible for the representation and evaluation of "their" category; supported by about 200 reviewers and eager to learn more about your work!


IMAGING PROBES, CHEMISTRY & REPORTER GENES | Dario Longo - Torino, Roger Schibli - Zurich, Nicolas Beziere - Munich, Fijis van Leeuwen - Leiden, Sophie Laurent - Mons


IMMUNOLOGY/INFLAMMATION | Jolanda de Vries - Nijmegen, Manfred Kneiling - Tübingen, Kerstin Fuchs - Tübingen, Reinhard Meier - Munich, Laura Mezzanotte - Leiden, Henryk Fass - Nottingham

INFECTIONOUS DISEASES | Uwe Himmelreich - Leuven, Stefan Wiehr - Tübingen, Anna-Maria Rolle - Tübingen, Greetje Vande Velde - Leuven


NEUROLOGY | Mathias Hoehn - Cologne, Stefanie Dedeurwaerdere - Antwerp, Tracy Farr - Berlin, Cindy Casteels - Leuven, Hans Wehrl - Tübingen, Elisabeth Jonckers - Antwerp, Cornelius Faber - Münster, Jan Klohs - Zurich

EDUCATION | Adriaan Lammertsma - Amsterdam & Giannis Zacharakis - Crete, Sibylle Ziegler - Munich, Daniel Engel - Essen, Marc Huisman - Amsterdam, Kevin Brindle - Cambridge

ESMI President & EMIM 2015
Programme Chair
Bernd Pichler - Tübingen, Germany
Programme Vice Chair
Fabian Kiessling - Aachen, Germany
Congress Secretary
Kristina Fischer - Tübingen, Germany

17 category chairs
40 sub-chairs &
~ 200 reviewer
+ your work

www.emim.eu
Thanks for all your excellent contributions – all submissions are closed!

For the biologist, inflammation is the consequence of contributions from a plurality of cells and a growing list of mediators, cytokines and receptors; for the medical doctor, inflammation is key to innate immunity and to the pathogenicity of major diseases; for the imaging scientist, the hallmarks of acute inflammation are masked by a vascular uproar and the hallmarks of chronic inflammation hallmarks are blurred. Two thousand years after the clinical description of the cardinal signs of inflammation by Celsius *(rubor et tumor cum calor et dolor)*, the appraisal of this ubiquitous phenomenon remains a conundrum of complexity and a major technical, scientific and medical challenge. Nevertheless, in vivo imaging approaches are opening new windows on the actors of inflammation, and showing that their concerted partition depends on context, location, duration, extent and tight relationships with other reactional processes.

During TOPIM 2015 on “Imaging Inflammation”, specialists from all fields of imaging sciences will share their expertise on new imaging approaches, confront recent results and discuss future avenues on how to tackle the multiple aspects of inflammation and distinguish the good, the bad and the ugly.

Invited speakers will give a talk within their field of expertise. The further talks will be selected from the abstract submissions. Two poster sessions are scheduled. The programme will start with an introductory Keynote Lecture by Matthias Gunzer.

Speakers
Eric T. Ahrens - San Diego
Daniel R. Engel - Essen
Carl Figdor - Nijmegen
Mathias Gunzer - Essen
Daniel Kreisel - St. Louis
Paul Kubes - Calgary
Eicke Latz - Bonn
Steffen Massberg - Munich
Polly Matzinger - New York
Jose Ordovas-Mantanes - Boston
Anna Planas - Barcelona
Marco Prinz - Freiburg
Caius Radu - Los Angeles
Denis Vivien - Caen

The overall concept is that experienced, high-level international scientists and less experienced scientists from diverse disciplines are spending one week together at an inspiring place and to provide a platform for knowledge exchange and discussion.

Please note: places in Les Houches are restricted due to the limited number of beds. As we have received more abstracts than places in Les Houches are available, registration to TOPIM 2015 will be only possible for accepted contributions - sorry!

TOPIM 2015 is supported by the EC project INMiND Imaging of Neuroinflammation in Neurodegenerative Diseases.
Networking event | Belgium youngESMI group

How do young Belgian scientists develop their regional network?

They initiate and participate in scientific speed-dating!

“On the 2 October the young Belgian Molecular Imaging Community (BMIC), the first young-ESMI group, organized its second event. After the successful conference day in 2013, BMIC chose to organize this year a networking event, since bringing together young scientists and fostering collaborations between research groups are important objectives of the yESMI group.

After the welcoming reception, during which the participants had the opportunity to visit the Brussels AutoWorld museum, Bernd Pichler gave a summarizing lecture on the EMIM and WMIC highlights and Tony Lahoutte presented the European Molecular Imaging Doctoral School (EMIDS) network.

These presentations were only an appetizer for the most important part of the evening that was kept as a surprise for the audience: scientific speed-dating! Two-by-two the attendees were given 5 minutes to introduce themselves to their occasional date and talk about their research. In order to facilitate the discussions, participants were encouraged up front to bring an image related to their field of research. In this way scientists working on MRI, nuclear imaging, optical imaging, microscopy and other imaging modalities shared their knowledge and met other Belgian researchers in molecular imaging. The event ended with a closing reception to continue discussions that had been initiated during the speed-dating session. A successful event that for sure will be repeated in the future - would you be interested in a scientific speed-dating at the EMIM 2015?!”

A youngESMI group is part of the ESMI focussing on a region/country but is not limited to. A yESMI group is initiated by students and young researcher and open to all young members of the ESMI. It is a “bottom-up” initiative which shall promote the formation of a regional network of young imaging scientists. AyESMI group should not compete with ESMI or its activities, but rather be complementary.

Interested in initiating a yESMI group in your country?
www.e-smi.eu/index.php?id=2631
In the late 1940s, radionuclides were made accessible to Norway, and in 1950 the first reports [1-3] on the use of $^{131}$I and $^{32}$P in biochemical research, radioprotection and clinical medicine were presented. In the course of the 1950’s nuclear medicine laboratories were started in six hospitals in Norway, four in Oslo, Drammen and Gjøvik. Historically, nuclear medicine in Norway has mainly been linked to medical chemistry. During the last decade Nuclear Medicine Departments started being organized under imaging departments [4].

In 1951 the first nuclear reactor was installed at Institute of Atomic Energy (IAE) (today Institute of Energy Technology (IET)), Kjeller. The first radionuclides ($^{24}$Na, $^{32}$P and $^{131}$I) were produced in 1952. In the following years the number of different radionuclides and the amounts increased rapidly. In 1963 they could deliver 28 different radionuclides in more than 50 different radioactive compounds. From 1965 iodine labeled compounds became a specialty, with 8 different $^{123}$I-labeled and 21 different $^{131}$I-labeled compounds. $^{99m}$Tc generators have been produced at Kjeller since 1966, and many $^{99m}$Tc-labeling kits have been developed. IAE (today IET) has produced the greater part of the radionuclides used for medical purposes in Norway and a considerable part for other Nordic countries [4].

In 1999, IET started production of $^{18}$F-FDG with $^{18}$F produced at a research cyclotron at the Institute of Physics, University of Oslo. This was used for performing gamma camera coincidence PET studies. In 2005, the first clinical PET/CT scanner was installed at Radiumhospitalet, Oslo, and the following year, another PET/CT scanner and cyclotron was installed in the new PET center at Rikshospitalet, Oslo. In 2008, a mobile PET/CT unit service was initiated at the University Hospital of North Norway, Tromsø, with $^{18}$F-FDG delivered from Finland. Later that year, a complete PET center including a cyclotron and a PET/CT scanner opened at Rikshospitalet, Oslo. In 2009-2012, another four PET/CT scanners were installed in the country, and in 2013, the first clinical PET/MR scanner was installed at St. Olavs Hospital, Trondheim [4,5].

**OSLO**

A preclinical PET unit has been operational at the Institute for Basic Medical Sciences (IMB), University of Oslo (UiO) since 2005. The instruments include a dedicated small animal microPET instrument (Focus 120, CTI concorde microsystems, now Siemens), and a micro CT instrument (ImTek MicroCATTM II, ImTek Inc., now Siemens). A new radiopharmaceutical chemistry laboratory is currently being constructed and will be operative from autumn 2014.

IMB is partner in NorPET, an organization established to consolidate the PET-tracer development from the selection and synthesis of clinically relevant candidate molecules through preclinical studies and all the way to administration in humans. NorPET is based on close collaborations between the University of Oslo and the Norwegian Medical Cyclotron Centre AS (NMC), and provides state-of-the art PET infrastructure ranging from two cyclotrons, an animal PET-scanner, several commercial and research synthesizer modules, a full suite of QC equipment, GLP, GMP and research laboratories.

**As a summary, today** (2014), there are four clinical PET/CT scanners and one cyclotron in Oslo, one clinical PET/CT scanner and one cyclotron in Bergen, one clinical PET/MR scanner in Trondheim and one clinical PET/CT scanner in Tromsø. Preclinical molecular imaging research is currently available in Oslo, Bergen & Tromsø. Below follows some additional information about these sites.

More information about the facility in **Oslo** can be found in reference [6].
BERGEN

In March 2013, a preclinical PET/CT, nanoScanPC by Mediso Ltd was installed at the PET center at Haukeland University Hospital. The scanner is a part of the imaging platform Molecular Imaging Center (MIC) at the University of Bergen. The scanner is mainly for mice and rats (or animals with similar size), has high resolution (0.7 mm PET and 0.02 mm CT) and high sensitivity.

The main use of the scanner is within the field of oncology, where different tracers are being used to characterize the tumor and to monitor treatment effect. So far, the following tracers have been used:

- F-18 FDG to evaluate the effect of treatment of GBMs
- F-18 FMISO for hypoxia imaging of GBMs and prostate cancer xenografts
- F-18 FLT for tumor localization and evaluation of the treatment effect in murine models of acute leukemia and metastasis of malignant melanoma
- F-18 FET (amino acid transport) to compare the tumor growth in treated and non-tested animals, and correlation with MRI
- F-18 FET F-18 FCholine in prostate cancer xenografts and correlation with ultrasound using microbubbles.

More information about the Molecular Imaging Centre in Bergen can be found in reference [7].

TROMSØ

In March-April 2013, the first preclinical PET/SPECT/CT trimodality imaging system in Norway was installed in Tromsø, as a cooperation between University of Tromsø (UiT) and the University Hospital of North Norway (UNN). The scanner is a Triumph™II PET/SPECT/CT (Trifoil Imaging Inc, Northridge, CA, US), with the three imaging modalities in a single unit. The gantry opening is 15 cm which allows scanning of small rodents, guinea pigs and rabbits. The spatial resolution is ~1 mm for PET, 0.5-1.6 mm for SPECT (collimator dependent), and 0.1 mm for CT.

The aims of the core facility is to provide opportunities for in vivo small animal imaging with PET, SPECT and CT for all researchers at UiT and UNN. Isotopes produced for clinical SPECT at UNN, are used for preclinical SPECT ($^{99m}$Tc). The production of many PET isotopes requires a cyclotron, which will be housed in the planned PET-center in Tromsø in 2017. Until then, isotopes delivered from Finland for clinical PET studies at UNN, are used for preclinical PET ($^{18}$F). Supporting equipment for performing in vitro and ex vivo validation experiments is also available at the core facility. Several research groups are currently starting up in vivo molecular imaging projects in Tromsø with main focus on oncology, neurology and cardiology.

More information about the preclinical PET core facility in Tromsø can be found in reference [8].

References

http://www.ntnu.no/isb/mr
http://www.med.uio.no/imb/english/research/about/infrastructure/pet/
http://www.uib.no/en/rg/mic
http://www.uit.no/research/pet
NEWSLETTER

EVENTS
congresses, workshops, trainings

Nov. 8-15, 2014 2014  
IEEE - Nuclear Science Symposium and Medical Imaging Conference in Seattle, USA

Nov. 28-Dec. 5, 2014  
International Neuro photonics School in Belgrade, Serbia

Dec. 1-4, 2014  
WORKSHOP - PET and SPECT radiopharmaceutical development: Regulatory Topics in Amsterdam

Dec. 1-4, 2014  
WORKSHOP - Radiochemistry and tracer development in Amsterdam

Dec. 5, 2014  
SYMPOSIUM on Meningiomas in Brussels, Belgium

Dec. 9-12, 2014  
SF Nano Annual Meeting of the French Society for Nanomedicine in Nancy, France

Jan. 20-23, 2015  
WORKSHOP - Small Animal PET Imaging in Orsay, Paris

WORKSHOP - 10th Small Animal Imaging Workshop 2015 in Tübingen, Germany

Feb. 1-6, 2015  
9th ESMI Winter Conference “TOPIM 2014” on IMAGING INFLAMMATION in Les Houches, France

Feb. 23-27, 2015  
WORKSHOP - 4th PET/MR Workshop 2015 in Tübingen, Germany

Mar. 4-8, 2015  
ECR 2014 in Vienna, Austria

Mar. 18-20, 2015  
10th European Molecular Imaging Meeting - EMIM in Tübingen, Germany

May 17-21, 2015  
PSMR - 4th Conference on PET/MR and SPECT/MR in Elba, Italy

May 30 - Jun. 5, 2015  
ISMRM 23rd annual meeting in Toronto, Canada

Jun. 6-10, 2015  
SNMMI Annual Meeting in Baltimore, USA

Jun. 27-30, 2015  
Brain & BrainPET 2015 in Vancouver, Canada

Sep. 2-5, 2015  
World Molecular Imaging Congress 2015 - WMIC in Hawaii

Oct. 1-3, 2015  
ESMRMB 2015 Congress in Edinburgh, UK

Oct. 10-14, 2015  
EANM’15 - 28th Annual Congress in Hamburg, Germany

for details please visit the “congress/workshop calendar” at www.e-smi.eu/index.php?id=1996
NEWSLETTER

JOBS

open positions

Nov. 7, 2014 | PostDoc position on PET/SPECT imaging radioligands in Antwerp, Belgium
Nov. 6, 2014 | PhD position Mass Spectrometry & Neuro-Inflammatory in Manchester, UK
Nov. 5, 2014 | PhD position on Quantitative PET/measurement of protein synthesis in Manchester, UK
Nov. 5, 2014 | PhD position on lipid imaging in neuroinflammation in Manchester, UK
Nov. 3, 2014 | Group Leader in Cell Engineering in Munich, Germany
Nov. 3, 2014 | postDoc position Microscopist Scientist in Munich, Germany
Nov. 1, 2014 | Postdoctoral Research Associate in Live Cell Microscopy and Raman Spectroscopy in Cambridge, UK
Oct. 31, 2014 | PhD student positions in Tübingen, Germany
Oct. 28, 2014 | Application Scientist at MILabs
Oct. 27, 2014 | Higher Scientific Officer in Molecular Imaging in London, UK
Nov. 1, 2014 | postDoctoral fellowship on MI in atherosclerosis in Bordeaux, France

EU NEWS

open calls & new documents

Nov. 2014 | H2020 Guidance Establishing a consortium agreement - new document
Oct. 7, 2014 | ERC Starting Grant - open call
Sep. 2, 2014 | Marie Skłodowska-Curie ITN Initial Training Networks - open call
Dec. 11, 2014 | H2020 Subcall on “Health, demographic change and wellbeing” - open calls

for further information, deadlines, and continuative links please visit the “EU NEWS” section at www.e-smi.eu/index.php?id=1971

Your ESMI membership includes also the possibility to post your events and open positions at www.e-smi.eu – read more about your benefits to be a member!

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for any enquires/(un-)subscription please contact the ESMI office via office@e-smi.eu