

BULLETIN DU GROUPEMENT

d'informations mutuelles

AMPERE



SE CONNAÎTRE, S'ENTENDRE, S'ENTRAIDER

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If you would like to become a member of the AMPERE Group, you can register online under: **www.ampere.ethz.ch**

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Editorial

Dear AMPERE colleagues,

this Bulletin issue comes a little late, considering that it is still the last issue for 2013. I wish all of you a happy, successful, and peaceful year 2014.

One of our very active subdivisions organizes the series of International Conferences on Magnetic Resonance Microscopy (ICMRMs). The 12th ICMRM took place last August in 2013, a report is contained in this issue (p. 2).

Since AMPERE members from other fields may not know the activities of our subdivisions, this issue begins a series of short portraits. We start from the highest frequencies, not necessarily the highest fields, and introduce the European Federation of EPR groups (EFEPR) on p. 4, followed by the first circular of the EFEPR 2014 conference in Marseille, France (September 7th -10th 2014) on p. 7.

Whereas EFEPR conferences are organized bi- or triannually, the NMRCM in St. Petersburg is one of the annual conferences under the auspices of AMPERE, which from July 7th to 11th comes very shortly after the 'white nights' (p. 9). Never been there? The city is very beautiful, and particularly so during this time.

If you want to go there this year, you should consider a conference double pack and travel first to Zürich, where EUROMAR 2014 takes place from June 29th to July 3rd. If you are not yet decided – Five good reasons to come to EUROMAR 2014 are given on p. 13.



Secretary General of Groupement AMPERE

& Chairman of EUROMAR 2014

Conference report on the 12th ICMRM in Cambridge

The 12th ICMRM was organised under the auspices of the Division of Spatially Resolved Magnetic Resonance of the Groupement AMPERE and was held in Fitzwilliam College, Cambridge, UK from 25th-29th August 2013. The conference began with a lively educational session on Sunday 25th and the general research conference was opened later that afternoon.

The meeting attracted 183 delegates, including 66 students, from 15 countries across the world and resulted in a widespread audience of academics with an interest in MR from across the engineering and physical sciences disciplines and beyond.

The educational lectures were presented by James Keeler, Sarah Codd, Craig Meyer and Malcolm Levitt on a diverse and interesting range of subjects including 'NMR relaxation', 'Flow and diffusion', 'Non-Cartesian sampling and sparse image reconstruction' and 'Long lived spin states'. The main conference comprised of 3 Plenary, 8 Invited, 6 Young Investigator and 31 contributed talks along with 98 posters distributed across 7 sessions: MR hardware; Hyperpolarisation; Low field – CMMR; Biomedical; Exotic and emerging NMR; MR microscopy; Flow and diffusion. The plenary talks were given by Lucio Frydman, Klaas Prüssmann and Warren Warren.

Although the sessions were of universally high quality, the **Young Investigators session** showed some of the up and coming researchers in our field and produced 6 excellent talks.

The 6 finalists chosen for the Young Investigator session were:

Einar Fridjonsson, Stefan Hertel, Nicolas Joudiou, Alexander Tayler, Joshua Bray and Eva Paciok.

From this conference the Young Investigators award is being renamed the **Paul Callaghan Young Investigator's Award**, in memory of the contribution from one of the leading scientists in our field.

This is a particularly fitting award since Paul will be remembered for his infectious enthusiasm and his interest in the research of young scholars, many of whom now play leading roles in the research presented at this conference. The winner of the Paul Callaghan Young Investigator's Award was Alex Tayler for his work on 'Exploring the fundamental hydrodynamics of turbulent single and multiphase flows using compressed sensing spiral MRI'.

The winner of the **poster prize** for best student posters was Frédéric Goora whilst the runners up were Guillaume Winisdorffer and Patrick Offer. The winner of the NMR Image beauty contest was Maria Pia Herrling.

Social Events

An opening drinks reception and buffet, sponsored by Bruker, was held on the Sunday evening to open the conference and welcome all delegates. On Wednesday afternoon excursions were undertaken by many to either Duxford Imperial War Museum or a tour of some of the Cambridge colleges. After the excursions the conference dinner, sponsored by Magritek, was held in the magnificent Great Hall at Trinity College and many enjoyed the privilege of walking on the grass in Trinity College! The dinner was followed first by a talk from Bernhard Blümich giving a historical perspective of his career in MR and then the all-important prize giving. Sarah Codd presented the inaugural Paul Callaghan Young Investigator's Award and spoke on Paul's importance to the community.

The conference committee are extremely grateful for the significant funding in the form of sponsorship from a number of sources including Bruker, Magritek, EPSRC, MR Solutions, Oxford Instruments, Shell, Schlumberger, Tecmag, Pure Devices, Rapid Biomedical, JSR and OUP. Without these sponsors this conference would not have been able to offer such an attractive academic or social programme.

Local organising committee: Andy Sederman, Lynn Gladden, Mick Mantle, Melanie Britton, Mike Johns, Dan Holland.

Subdivision portrait:

The European Federation of EPR groups (EFEPR)

The European Federation of EPR (electron paramagnetic resonance) groups (EFEPR) is a non-formal organization which gathers 14 regional EPR groups from European countries and other countries in the region. EFEPR is devoted to interchange of information between the different groups. Its activities include a triennial conference that provides a forum for scientists engaged in EPR spectroscopy to present and discuss recent results and developments. It covers all aspects of EPR spectroscopy, including applications in the fields of physics, chemistry, materials, biology and medicine, new techniques, instrumentation developments and theory. In addition it organizes EPR schools that disseminate modern EPR methodology to the community through its young researchers.



The first four presidents of EFEPR (from right to left): Klaus Möbius, Marina Brustolon, Daniella Goldfarb, Etienne Goovaerts.

The idea of a European Federation of EPR groups (EFEPR) was first put forward during a joint conference organized by the British, the oldest ESR group in Europe, and the then more newly formed Italian ESR group. The meeting was held during August 1991 in the historic town of Padua, site of one of the oldest Universities in the world. A steering committee chaired by Klaus Moebius, Free University of Berlin, was set up and this gave rise in the following year to the European federation. Professor Klaus Moebius was elected as its first president and was succeeded by Professor Marina Brustolon (Padua) who was elected during the second triennial conference held in Paris 1994, and confirmed to the post at the 3rd meeting held in August 1997 in Leipzig.



Graham Smith (St. Andrews), current President of EFEPR.

Daniella Goldfarb (above, second from left) from the Weizmann Institute in Israel was elected as the third president in the 4th meeting held in Norwich (September 2000), and passed office at the 5th meeting held in Lisbon (September 2003) to Etienne Goovaerts (above, left) from the University of Antwerp in Belgium, who accepted to take up a second term at 6th meeting held in Madrid (September 2006). At the 7th EFPR meeting in Antwerp (September 2009), the general assembly appointed Graham Smith from the University of St. Andrews, Scotland to be the new president of EFEPR in the following years. The 8th meeting was organized by Thomas Prisner in Frankfurt/Main in 2011, together with the EUROMAR conference and the annual conference of the Discussion Group for Magnetic Resonance of the German Chemical Society. The 9th EFEPR conference will take place in Marseille, France from September 7th to September 11th 2014 and is organized by Bruno Guigliarelli.

The second main contribution of EFEPR to the field is a series of European EPR schools, the first one having been organized by Marina Brustolon in Caorle, Italy, in September 1999. This was followed by the schools in Retie, Belgium, organized by Daniella Goldfarb, Sabine Van Doorslaer, and Etienne Goovaerts (December 2002), in Wiesbaden, Germany by Thomas Prisner (July 2005), and in St. Andrews, Scotland, by Graham Smith (August 2008), by Malte Drescher and Gunnar Jeschke in Konstanz, Germany (September 2010), and by Daniella Goldfarb in Rehovot, Israel (January 2013).

EFEPR is operating under the auspices of the Groupement Ampere and is actively involved in the International EPR (ESR) Society together with the Asia-Pacific EPR Society.



The French EPR group, ARPE, is honored to invite you to the IXth EF-EPR Conference in Marseilles from 7 to 11 September 2014.

This Conference will coincide with the Xth anniversary of ARPE.

The European Federation of Electron Paramagnetic Resonance groups (EFEPFR) gathers EPR groups from European countries and other countries in the region. Its activities include a triennial conference that provides a forum for scientists engaged in EPR spectroscopy to present and discuss recent results and developments. It covers all aspects of EPR spectroscopy, including applications in the fields of physics, chemistry, materials, biology and medicine, new techniques, instrumentation developments and theory. EFEPFR 2014 will cover all developments and applications of modern EPR: Nanophysics and Materials, Biomedical and Biosystems, Energy and Environment, DNP and Advanced Methods, Theoretical approaches, Emerging approaches.

After the conferences in Antwerp (2009) and Frankfurt (2011), EFEPFR 2014 will take place in Marseilles. This old city is located in a large bay of the Mediterranean Sea, in Provence, in France. Marseilles offers a wide range of heritage, places of interest, culture and diversity, and is undoubtedly one of the most vibrant and exciting cities in France.

Location and Venue

The conference will be held at the CNRS Campus in the south part of Marseilles, near the famous "Calanques" area. Marseille is easily accessible by bus from International Marseille-Provence Airport and by train (St Charles station). The Marseille-Provence Airport holds low-costs flights from France and Europe. Accommodation has to be directly booked by the participants. Early booking is advised by the conference organizers.

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Registration Fees

The congress fees cover the expenses of active participation, the book of abstracts and program, congress bag, welcome reception on Sunday 7th September, all lunches, coffee breaks and refreshments.

	Before 1 st May 2014	After 1 st May 2014
Academics	450 €	550 €
Students	350 €	450 €
Industrials	1000 €	1500 €

Call for papers:

The four days of the EFEPR 2014 will consist in 8 Plenary Conferences, 12 Invited Lectures, 35 oral presentations, and 3 poster sessions.

A free afternoon will be devoted for a social tour to discover Marseilles and its surroundings before the gala dinner on Wednesday 10th .

Pre-registration and abstract submission can be done on the web site of the conference:

<http://www.efep2014.org>

Important Dates

Opening of Online Pre-registration form: 20 December 2013

Opening of Abstract submission: 20 December 2013

Deadline for Abstract submission: 1st May 2014

International Symposium and Summer School in Saint Petersburg

,Nuclear Magnetic Resonance in Condensed Matter`

11th Meeting ,Biomolecular NMR and related phenomena`

St. Petersburg, Peterhof, Russia
07 - 11 July 2014



an **AMPERE** event

First Annouement

Organizing Institution:
Saint Petersburg State University

<http://nmr.phys.spbu.ru/nmrasm>
nmrasm@nmr.phys.spbu.ru

Invitation

Saint Petersburg State University continues the Annual International Symposium and Summer School **„Nuclear Magnetic Resonance in Condensed Matter’ (NMRCM)**. The eleventh meeting under the subtitle **„Biomolecular NMR and related phenomena’** will be opened on Monday, July 7, 2014 and will be closed on Friday, July 11, 2014.

The goal of the meeting is to provide a platform to scientists and students for the use of all aspects of nuclear magnetic resonance methods and techniques as well as computational and theoretical approaches for the solving of various problems in the area of medicine and biology. The Organizing Committee kindly invites you and your colleagues to Saint Petersburg to participate in the International Symposium and Summer School **NMRCM 2014**.

International Advisory Board

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Location

NMRCM 2014 will take place at the Peterhof Campus of Saint Petersburg State University. Peterhof is a charming town, former summer residence of Russian Tsars, a place famous for its parks, palaces and fountains. Peterhof is located at the South Coast of the Gulf of Finland at a distance of 30 km from the center of Saint Petersburg.

Saint Petersburg is the cultural capital of Russia, world famous for its architecture, monuments, museums and art galleries as well as for its theatres and concert halls.

Main Topics

The 11th meeting NMRCM 2014 will cover all aspects of nuclear magnetic resonance in life sciences. Some of the important topics are:

- NMR in biology and medicine
- MR imaging
- ecology and environmental research
- food science, cosmetics, etc.
- micellar systems and lyotropic liquid crystals
- computer simulations and model systems
- metal-organic systems
- novel NMR techniques

Scientists and students from all countries are invited to make plenary lectures, oral reports and poster presentations. The Organizing Committee founds two prizes for the best oral and best poster reports, made by a student, post-graduate student or young scientist without Ph.D. under 30. The official language of the Symposium and School is English.

Symposium Proceedings

The NMRCM 2014 Symposium Proceedings will be published in a special issue of the journal *Applied Magnetic Resonance* with the normal reviewing process. Deadline for manuscript submission:
July 10, 2014

Preliminary Registration Form

On-line registration is opened on the Web-server of NMRCM 2014
<http://nmr.phys.spbu.ru/nmrcm/user/register>

Registration Fee

Active participants	350€
Ph.D students & students	150€
Accompanying person	200€

Members of the Groupement AMPERE have a discount of 25€

The fee includes organization costs, NMRCM 2014 materials, visa support and registration, welcome-party and coffee breaks.
Number of participants is limited to 150 persons.

Important Dates

02 March	Call for Preregistration Form
04 March	Second Announcement
25 April	Deadline for visa applications
30 May	Deadline for the receiving Abstracts
02 June	Letter of Acceptance
10 June	Deadline for the receiving of registration fee
16 June	Third Announcement and Program
06 July	Arrival

Organizing Committee

(St. Petersburg State University)

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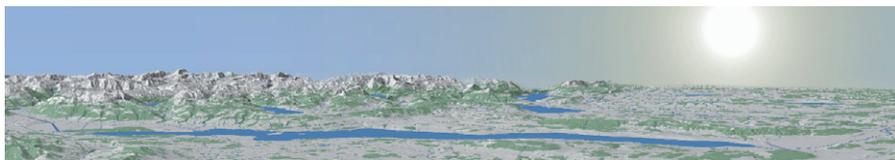
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Euromar 2014



June 29 - July 3 | ETH Zurich Switzerland
www.euromar2014.org

Five good reasons to attend Euromar 2014

Gunnar Jeschke, Conference Chairman

Cliché has it that the top three reasons for visiting Switzerland are mountains, cheese, and chocolate. As is usual with commonplace notions, this cliché has some truth to it. I invite you to check it on the weekend before or after EUROMAR.

But why should you come to Switzerland particularly during the time of EUROMAR 2014 and why should you spend most of your time in Zürich, rather than in those beautiful mountains? Here are five reasons to convince you that you want to spend the days from June 29th to July 3rd 2014 in ETH main building.

1. The Tutorials

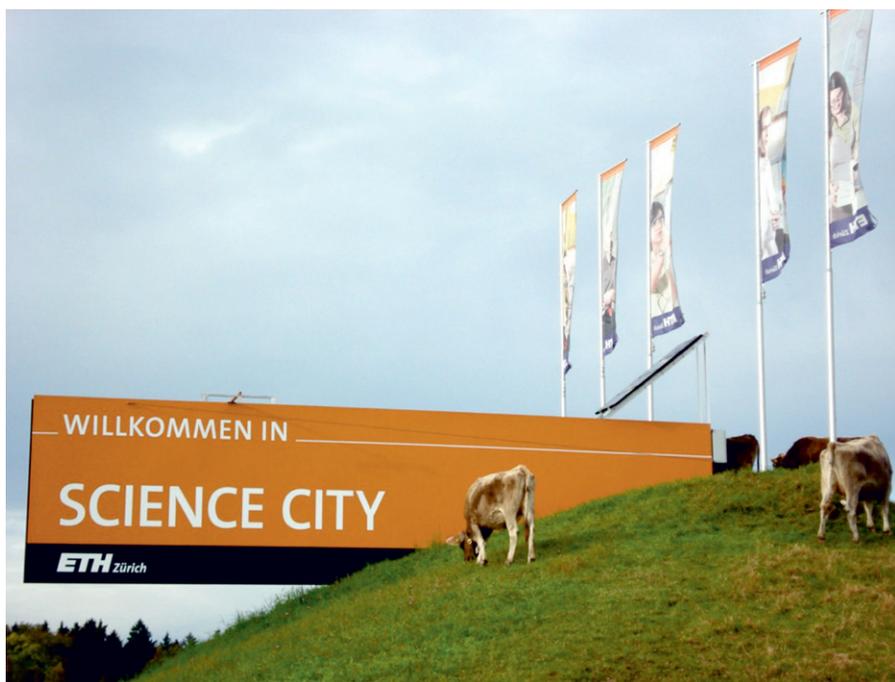
The conference will start with three tutorials on Sunday June 29th at 2 p.m. First, Daniella Goldfarb from Weizmann Institute talks about Hyperfine Spectroscopy. Doing NMR? You might still be interested. Hyperfine couplings are a necessary condition for dynamic nuclear polarization (DNP) experiments. Second, James Keeler from Cambridge University will give you an Introduction to Relaxation Theory. Despite its name, relaxation in magnetic resonance is never a relaxing topic. It helps to get it explained by a scientist who is famous for his clear explanations. Third, Rafael Brüschweiler from Ohio State University will tell you about synergies between NMR and molecular dynamics (MD) computations for studying protein motions. This is a complex story, but you are prepared by James Keeler's lecture. Rafael's talk will take you to the frontiers of the field. By the way, tutorials are not only for students and young PostDocs. Even if you personally know about all these things, you can still get ideas for didactics of your own lectures.

2. The Lunch Breaks

Our lunch breaks are not overly long, but you will receive tickets for a full meal in the student restaurants in and around ETH Main Building. Some of them have a beautiful view on the city and the lake, in good weather on the Alps and usually on Zürich's own mountain, the Uetliberg. You might be able to sit outside in the sun. You can have a walk, the inner city is close. In fact, having a free ticket for public transportation for the whole week, you might even skip lunch, take tram 9 to Bellevue and have your scientific lunchtime discussions at the lakeside (please be back for the poster sessions). Only your fantasy is the limit.

3. The Richard R. Ernst Honorary Session

As you might know, Zürich has two Nobel Prize winners in the field of magnetic resonance, Richard R. Ernst (1991) and Kurt Wüthrich (2002). Richard was turning 80 last August and we will celebrate this with an evening session. Meet him and Wes Anderson, with whom he developed Fourier transform NMR at Varian Associates in Palo Alto. After the festive session with Wes Anderson's presentation you are treated to an Apéro riche, which is the Zürich term for a reception with sufficient food being present. A small lounge will seat Richard and Wes and people who talk to them.



Actually, the conference will not convene in Science City, where the chemistry, physics, and biology departments are now located. However, if you want to see this modern campus and the traditional cows, the place is easy to reach by public transport.

4. The Conference Dinner

On Thursday evening, we shall finish a little earlier. Take the tram or bus (remember your free ticket for public transport) to Schützenhaus Albisgütli, which looks like another Swiss cliché. Don't expect a fatty meaty meal, though. The place is large and rustic, but you will be served quite refined food with a vegetarian option. If we are lucky with the weather, you can spend time outside, only a few hundred meters away from the hiking paths up Uetliberg. And you won't be bound by leaving times of conference busses to get back to your hotel (remember your free ticket for public transport).

5. The Science – and Your Contribution to it

Last but not least, EUROMAR 2014 is about scientific presentations. Visit www.euromar2014.org to see who our 13 plenary and 48 parallel session speakers are. There are still 72 free slots for contributed parallel session talks. Write a good abstract about your work before April 14th 2014 and you might be lucky enough to get one. If not, put up your poster in ETH Main Building, designed by famous architect Gottfried Semper. And don't forget – scientific conferences are about the stimulating atmosphere and about meeting people. What you see others doing, what you learn about trends in your field, and what others ask about your own science will give you new ideas for going on with your own projects.

Dates to remember

Conference registration is open

Abstract submission is open

Early registration closes

14. April 2014

Deadline for oral submissions

14. April 2014

Deadline for student grant applications

14. April 2014

Deadline for Wiley Prize applications

14. April 2014

Deadline for poster submission

15. May 2014

Executive Officers and Honorary Members of the AMPERE Bureau

The AMPERE BUREAU includes the executive officers (which take the responsibility and the representation of the Groupement between the meeting of the committee), the honorary members of the Bureau and the organizers of forthcoming meetings.

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Future conferences

Ampere events 2014

Ampere NMR School 2014	Zakopane (Poland)	June 22-June 28 2014
FOODMR 2014	Cesena (Italy)	May 20-23 2014
EUROMAR 2014	Zurich (Switzerland)	June 29-July 3 2014
NMRCM 2014	St. Petersburg (Russia)	July 7-July 11 2014
EFEPR 2014	Marseille (France)	September 7-11 2014

Other events 2014

SPIN 2014	Zelenogradsk (Russia)	September 14-20 2014
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2015

19 th ISMAR conference	Shanghai (China)	August 16-21 2015
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