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**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](http://www.ampere.ethz.ch)**

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## Editorial

Dear AMPERE colleagues,

when you hold this last Bulletin issue for 2012 in your hands, the year has already passed. I want to thank all officials and members for their contributions to the activities of our society in 2012, in particular Chandralal Hewage for organizing EUROMAR 2012 in Dublin, Hans Wolfgang Spiess for his years of service as a Chairman of the AMPERE Prize Committee, and, last but not least, Beat Meier for his years of service as President of Groupement AMPERE.

In 2013, our main conference, EUROMAR will be organized by Georgios Papavassiliou and take place June 30<sup>th</sup>-July 5<sup>th</sup> in Hersonissos on Crete in Greece. Registration is already open at <http://www.euromar2013.org/>. Note also that the conference will be accompanied by a Colloque AMPERE on Advances in Solid State Broadband Magnetic Resonance and will be preceded by a Satellite Meeting on Spin Hyperpolarisation in NMR and MRI that is organized by the COST action TD1103.

On the first day of EUROMAR the Raymond Andrew Prize for an outstanding Ph.D. thesis in magnetic resonance will be awarded. Please note that the nomination deadline, February 15<sup>th</sup> 2013 is very near when you read this. The Call for Nominations is found on page 5.

Please also note the AMPERE Summer School on „Analyzing Cultural Heritage using Portable Magnetic Resonance“ (June 12<sup>th</sup>-15<sup>th</sup>) in Volterra, Italy (see p.6), the NMRCM 2013 (July 8<sup>th</sup>-12<sup>th</sup>) in St. Petersburg (see p.7) and the 12<sup>th</sup> International Conference on Magnetic Resonance Microscopy (August 25<sup>th</sup>-29<sup>th</sup>) in Cambridge, UK (see p.11).

I am looking forward to seeing you in Hersonissos on the beautiful island Crete.



Secretary General of Groupement AMPERE

## Report of the 11<sup>th</sup> International Bologna Conference on Magnetic Resonance in Porous Media (MRPM11)

MRPM11, the eleventh biennial meeting of the Porous Media Division of Groupement Ampere was held at the University of Surrey from Sunday 9<sup>th</sup> to Thursday 13<sup>th</sup> September 2012. The meeting attracted 191 delegates including 68 students from 21 countries across the world. NMR in porous media has widespread application in petroleum engineering, chemical engineering, plant and earth sciences, food sciences, biomedicine and soft matter. As a result, these meetings are traditionally very multi-disciplinary and attract an audience from both academia and industry. 2012 was no exception as shown in the table.

| Region                    |  | Total delegates |
|---------------------------|--|-----------------|
| Europe                    | CH (1); DE (45); DK (1);<br>FR (19); GB (35); IT (8); NL (7);<br>NO (3); PL (1); RO (2); RU (2);<br>SI (3); SE (6) | 133             |
| North and South America   | BR (4); CA (11); US (24)   | 39              |
| Australia and New Zealand | AU (2); NZ (6)   | 8               |
| Asia, Middle East         | CN (6); JP (4); SA (1)   | 11              |

The first day began with four extended, invited tutorial lectures presented by Peter Blümler, Rainer Kimmich, Petrik Galvosas and Andrew Sederman. These gave an overview of the magnetic resonance applied to porous media from which all, new and old to the field, were able to learn. The remainder of the meeting comprised 9 further invited and 27 contributed talks and 99 posters divided across 10 themes: Advances in Methodology; Applications to Energy and Related Materials; Mobile Magnetic Resonance; Applications to Bio-Materials, Pharmaceuticals and Food; Applications to Plants, Soils and Earth Sciences; Applications to Cells, Gels and Soft Matter; Applications to Polymeric Materials; Applications to Nano-Structured Materials; and Applications to the Built Environment; Applications of DNP and Hyperpolarisation. Several delegates commented that the quality of the science presented continues to impress 22 years after the first meeting with continued innovation related to both methodology and application in the field.

Petrik Galvosas gave his opening tutorial presentation in place of Paul Callaghan who died earlier in the year. It was preceded by a short tribute to Paul led by Bernhard Blümich. As the week progressed Paul's immense contribution to the field became ever more apparent and several speakers offered personal memories and thanks.

The Giulio Cesare Borgia prize is presented at MRPM11 meetings to an emerging researcher who shows the greatest promise for future scientific leadership. The Prize is established in memory of the late Professor Borgia's contribution to the development of Magnetic Resonance in Porous Media, his encouragement of young people setting out into this area of research and his work in establishing the conference series. The prize is sponsored by the Dipartimento di Ingegneria Civile, Ambientale e dei Materiali (DICAM) of the University of Bologna. In 2012, the prize of Euro 3000 was awarded to Jonathan Mitchel of the University of Cambridge for "for his outstanding contributions to the development of cryoporometry, multi-dimensional relaxation experiments and his understanding of the impact of internal magnetic field gradients".

At MRPM11, the Poster Prize was linked to the Founder's Prize of BRS&G, The NMR Group of the UK Institute of Physics. The prize, offered in memory of Professor E. Raymond Andrew, pioneer of magic angle spinning, was awarded to Stefanie Eriksson of Lund University, Sweden for her poster "A new PGSE NMR pulse sequence gives isotropic diffusion weighting by magic-angle spinning of the q-vector".

The meeting organisers were extremely grateful to the meeting sponsors, 12 of whom registered delegates at the meeting. The sponsors included: Advanced Magnetic Resonance Ltd; Anvendt Teknologi AS; Bruker BioSpin GmbH; Chevron; HeidelbergCement GmbH; BRS&G: The Magnetic Resonance Group of Institute of Physics; Magritek Ltd; MR Solutions Ltd; Oxford Instruments; both Schlumberger-Doll and Cambridge Research; Stelar Srl; University of Bologna; and University of Surrey Faculty of Engineering & Physical Sciences (International Committee). Several of these contributed to a series of well-received instrumentation displays from large and small manufacturers alike.

The academic sessions were accompanied by a parallel social programme that included guided twilight tours of historic Guildford, visits to local Surrey villages and an afternoon at the Royal Greenwich Observatory, home of the prime meridian, and a boat trip back along the River Thames through central London.

The division general assembly was held at the end of the meeting. It was agreed that the next meeting would be hosted by Victoria University, New Zealand from 9<sup>th</sup> to 13<sup>th</sup> February 2014. New members of the division steering committee (Christoph Arns (Chair), Frank Stallmach, Petrik Galvosas (Future Meeting Organiser), Peter McDonald (Current Meeting Organiser) and Paola Fantazzini (ex-officio)) were elected along with 18 new members of the scientific advisory committee to replace those stepping down after 4 or more years of service. Finally, 37 student and 51 full delegates joined Groupement Ampere as a result of attending the meeting.

Peter J. McDonald  
Conference Chair  
University of Surrey

## **Raymond Andrew Prize 2013 – Call for nominations**

Call for Nominations for the Raymond Andrew Prize for an outstanding PhD thesis in the field of magnetic resonance:

For the Raymond Andrew Prize 2013 the AMPERE Prize Committee is seeking your help in searching for qualified candidates who completed their dissertation during the period of 2011/2012. The prize will be presented during the EUROMAR in Hersonissos, Crete (Greece) from June 30<sup>th</sup> to July 5<sup>th</sup> 2013.

You are kindly invited to submit nominations by e-mail to

andrewprize@nmr.phys.chem.ethz.ch

### **Suggestions must be received by 15<sup>th</sup> February 2013**

and should include the following documents:

- Nomination letter
- Curriculum vitae
- List of publications and presentations at conferences
- PhD thesis in PDF

The thesis should be written in English. In exceptional cases, the thesis may also be submitted in triplicate as a hardcopy to the AMPERE Secretariat. Please note that the nomination letter cannot be written by the candidate herself or himself.

Submissions that arrive too late will automatically be transferred to the next year. The prize committee will reconsider excellent contributions for two years in a row.

For a list of past Andrew Prize winners see:

[http://www.ampere.ethz.ch/andrew\\_prize.htm](http://www.ampere.ethz.ch/andrew_prize.htm)

Sincerely yours,  
Gunnar Jeschke



Ampere Summer School



## Analyzing Cultural Heritage using Portable Magnetic Resonance

Volterra, Italy  
12-15 June 2013

A three-day workshop for conservators, restorers, art historians and scientists interested in learning how portable non-invasive magnetic resonance can help understand the material composition, condition and technology of works of art. The workshop includes lectures, hands-on experiments, participant contributions, a panel discussion and an on-site demonstration of a historical wall painting.



Registration fee € 250 (accommodation and meals not included)

**For more information, please visit:  
[www.mc.rwth-aachen.de](http://www.mc.rwth-aachen.de)**

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**Pratt**

AMPERE Bulletin No. 249

**RWTH AACHEN  
UNIVERSITY**



Saint Petersburg State University  
Department of Quantum Magnetic Phenomena

International Symposium and Summer School in Saint Petersburg

**“Nuclear Magnetic Resonance in Condensed Matter”  
10<sup>th</sup> Meeting “NMR in Life Sciences”**

St. Petersburg, Petergof , Russia  
8 – 12 July 2013



**An AMPERE event**

**First Announcement**

Organizing Institution:  
Saint Petersburg State University

<http://nmr.phys.spbu.ru/nmrasm>  
[nmrasm@nmr.phys.spbu.ru](mailto:nmrasm@nmr.phys.spbu.ru)

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## **Invitation**

Saint Petersburg State University continues the Annual International Symposium and Summer School "Nuclear Magnetic Resonance in Condensed Matter" (NMRCM). The tenth meeting under the subtitle "NMR in Life Sciences" will be opened on Monday, July 8, 2013 and will be closed on Friday, July 12, 2013.

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 life sciences. The Organizing Committee kindly invites you and your colleagues to Saint Petersburg to participate in the International Symposium and Summer School NMRCM 2013.

## **Location**

NMRCM 2013 will take place at the Petergof Campus of Saint Petersburg State University. Petergof (known as Petrodvorets from 1944 to 2009) is a charming town, former summer residence of Russian Tsars, a place famous for its parks, palaces and fountains. Petergof 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 tenth meeting NMRCM 2013 will cover all aspects of nuclear magnetic resonance in life sciences. Some of the important topics are:

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

Scientists and students from all countries are invited to make plenary lectures, oral reports and poster presentations. 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 35. The official language of the Symposium and School is English. The Book of Abstracts will be published and distributed to each participant of NMRCM 2013 on arrival.

## **Symposium Proceedings**

The NMRCM 2013 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 11, 2013.

## **Preliminary Registration Form**

On-line registration is opened on the Web-server of NMRCM 2013at: <http://nmr.phys.spbu.ru/nmrcm/user/register>

## **Registration Fee**

Active participants - 300 €, students - 150 €.

Members of the Groupement AMPERE have a discount of 25 €.

Accompanying persons - 150 €.

The fee includes organization costs, NMRCM 2013 materials, visa support and registration, welcome-party, and coffee breaks.

Number of participants is limited to 150 persons.

## **Importante Dates**

|          |  |
|----------|--|
| 01 March | Deadline for Preregistration Form              |
| 04 March | Second Announcement and Call for Papers        |
| 26 April | Deadline for visa applications                 |
| 06 May   | Deadline for the receiving of Abstracts        |
| 13 May   | Letter of Acceptance                           |
| 05 June  | Deadline for the receiving of registration fee |
| 10 June  | Third Announcement and Program                 |
| 07 July  | Arrival  |

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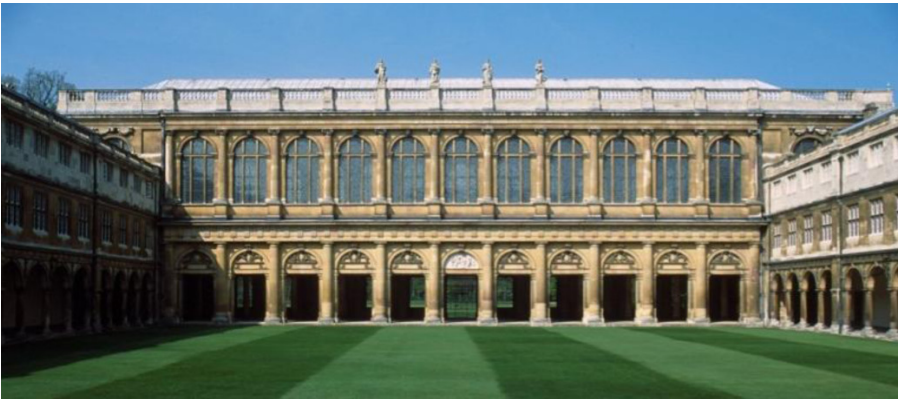
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URL: <http://nmr.phys.spbu.ru/nmrcm>

# 12<sup>th</sup> International Conference on Magnetic Resonance Microscopy



25<sup>th</sup>-29<sup>th</sup> Aug 2013  
Fitzwilliam College, Cambridge, UK



## First Circular, November 2012

<http://www.paceprojects.co.uk/ICMRM.html>

### Background

The objectives of the ICMRM are to communicate recent developments in spatially resolved magnetic resonance methods and their applications. It is the biennial conference of the Division of Spatially Resolved Magnetic Resonance of the AMPERE Society.

## **Plenary Speakers**

Lucio Frydman

Klaas Prüssmann

Warren Warren

## **International Committee**

Committee of the Division of Spatially Resolved Magnetic Resonance of the AMPERE Society

## **Local Organisers**

Lynn Gladden, Andy Sederman, Melanie Britton, Dan Holland, Mike Johns, Mick Mantle

## **Dates**

Oral abstract deadline: 30<sup>th</sup> April 2013

Conference 25<sup>th</sup> - 29<sup>th</sup> August 2013



**UNIVERSITY OF  
CAMBRIDGE**

## 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

### 2013

|   |                                |                        |
|---|--------------------------------|------------------------|
| EUROMAR 2013  | Hersonissos, Crete<br>(Greece) | June 30-July 5<br>2013 |
| Specialized Colloque AMPERE<br>„Advances in Solid State<br>Broadband Magnetic<br>Resonance“ | Hersonissos, Crete<br>(Greece) | June 30-July 5<br>2013 |
| ICMRM 12  | Cambridge (UK)                 | August 25-29<br>2013   |
| 4 <sup>th</sup> International DNP<br>Symposium  | Copenhagen<br>(Denmark)        | August 28-31<br>2013   |
|   |                                |                        |

### 2014

|              |                             |                        |
|--------------|-----------------------------|------------------------|
| MRPM 12      | Wellington<br>(New Zealand) | February 9-13<br>2014  |
| EUROMAR 2014 | Zurich<br>(Switzerland)     | June 29-July 3<br>2014 |

### Other events 2013

|  |                              |                       |
|--|------------------------------|-----------------------|
| 5 <sup>th</sup> Asia-Pacific NMR Symposi-<br>um (APNMR5) and 9 <sup>th</sup> ANZMAG<br>Meeting | Brisbane, QLD<br>(Australia) | October 27-30<br>2013 |
|--|------------------------------|-----------------------|