

Vol. 54, No. 3/4

ISSN 0432-7136

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# **BULLETIN DU GROUPEMENT**

**d'informations mutuelles**

# **AMPERE**

SE CONNAITRE, S'ENTENDRE, S'ENTR'AIDER

*November - December 2005*

No. 220/21

*Secretariat and administration:*

ETH Zürich

Laboratory of Physical Chemistry, c/o Prof. B. H. Meier

ETH-Hönggerberg, HCI

CH-8093 Zürich, Switzerland

<http://www.ampere.ethz.ch>

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#### Associate Members of the AMPERE Group:

Bruker AG, Industriestrasse 26, CH-8117 Fällanden, Switzerland

Varian Deutschland GmbH, Postfach 11 14 35, D-64229 Darmstadt, Germany

Magnetic Resonance Group, Institute Jozef Stefan, Jamova 39,  
SI-61111 Ljubljana, Slovenia

## Application form for AMPERE membership

If you are not a member of the AMPERE Group at present and would like to become a member, please fill in the form and return it to the contact address stated below.

on-line registration under:

<http://www.ampere.ethz.ch>

Family Name	
First Name	
Student	<input type="checkbox"/> yes      Reduction of 50 % of membership fees Age limit: 30 years
Title	
Institute/ Department	
University/ Organisation	
Street	
ZIP Code before	
Town, ev. State	
ZIP Code after	
Country	
Telephone	
Telefax	
e-mail	

Date:.....

Signature:.....

### Correspondence Address:

Prof. Beat H. Meier

ETH Zürich

Laboratorium für Physikalische Chemie

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8093 Zürich, Switzerland

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*One year membership fee Swiss Francs 35.--, three years membership fee Swiss Francs 100.--*

**REMINDER**

**Deadline now April 1, 2006**

## **Call for Nominations for the Raymond Andrew Prize**

**for an outstanding PhD thesis in the field of magnetic resonance**

**For the Raymond Andrew Prize 2006** the AMPERE Prize Committee is seeking your help in searching for the above school for qualified candidates who completed their dissertation during the period of 2004/2005. The prize will be presented during the EUROMAR joint EENC/AMPERE/British NMR-dg meeting in York (U.K.) from 17<sup>th</sup> to 21<sup>st</sup> July 2006.

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

[andrewprice@nmr.phys.chem.ethz.ch](mailto:andrewprice@nmr.phys.chem.ethz.ch).

**Suggestions must be received by 1<sup>st</sup> April 2006** and should include the following documents:

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

The thesis must be written in English. In exceptional cases, the thesis may also be submitted in triplicate as a hardcopy to the AMPERE Secretariat.

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.

Sincerely yours,



Beat H. Meier  
General Secretary



**16<sup>th</sup> - 21<sup>st</sup> July 2006 York, England**

**[www.euromar.org](http://www.euromar.org)**

**Joint conference of British NMR-DG, AMPERE and EENC**

## **Introduction**

The Organising Committee of EUROMAR is pleased to extend an invitation to attend the first in a series of pan European conferences on Magnetic Resonance spectroscopy. This series replaces the British NMR Discussion Group's International Meetings that started in 1969 and finished in Cambridge in 2003, as well as the biannual Congress AMPERE and EENC meetings. The new format will bring together participants from AMPERE, EENC and UK NMR-DG and aims to cater for all parties interested in magnetic resonance.

## **Date and Location**

The EUROMAR meeting will take place at the University of York during the period Sunday 16<sup>th</sup> to Friday 21<sup>st</sup> July 2006, with participants gathering on the Sunday afternoon. There will be an inaugural reception and presentation on the Sunday evening at which Sir Peter Mansfield, Nobel Laureate, will be presenting some of his latest results. The main sessions will start on Monday morning and the meeting will end at lunchtime on Friday. The Wednesday afternoon and evening have been set aside for organised excursions and an evening meal in one of the Pubs in the area.

## **York**

York is situated halfway between London and Edinburgh, approximately 300 km north of London. The walls of the old city are still complete and enclose an area containing York Minster, the Castle (Clifford's Tower), innumerable fine buildings from the medieval period and from the eighteenth century. York Minster is one of the great masterpieces of Gothic architecture. Attractive museums (The Castle Museum, Yorkshire Museum, Jorvik Centre, Fairfax House) allow the visitor to explore local history, including outstanding

archaeological finds in Roman, Anglian and Viking times. The National Railway Museum is extremely popular and will be the venue for the conference dinner. York is within easy range of other sites of interest, including Castle Howard and Fountains Abbey. The coast, the North York Moors and the Yorkshire Dales may be reached within a 1 or 2 hour drive.

All the lectures and poster sessions will take place at the University on the main campus. This is located in Heslington and forms a 200-acre landscaped park, well-known for its lake and wildfowl. The colleges and academic buildings are on a level site within easy walking distance of each other. Proximity to the historic city of York makes the University a popular choice and provides a pleasant working and residential environment. See [www.york.ac.uk](http://www.york.ac.uk) for more information about the venue.

## Committees

### EUROMAR Board of Trustees

<b>Chairman</b>	<b>Geoffrey Bodenhausen</b> (ENS, Paris, France)
<b>Secretary</b>	<b>Michael Williamson</b> (University of Sheffield, UK)
<b>Treasurer</b>	<b>Janez Dolinsek</b> (J. Stefan Institute, Ljubljana, Slovenia)
<b>Marius de Bie</b>	(Bijvoet Centre, Utrecht, Netherlands)
<b>Bernhard Blümich</b>	(RWTH, Aachen, Germany)
<b>Lyndon Emsley</b>	(ENS, Lyon, France)
<b>Lucio Frydman</b>	(Weizmann Institute, Rehovot, Israel)
<b>Astrid Gräslund</b>	(Stockholm University, Sweden)
<b>Christian Griesinger</b>	(MPI, Göttingen, Germany)
<b>Robert Griffin</b>	(MIT, Cambridge, USA)
<b>Olga Lapina</b>	(BIC, Novosibirsk, Russia)
<b>Thomas Prisner</b>	(University of Frankfurt, Germany)
<b>Gerhard Wagner</b>	(Harvard, Boston, USA)
<b>Simon Duckett</b>	(University of York, UK) <i>ex-officio</i>
<b>Duncan Farrant</b>	(GSK, Stevenage, UK) <i>ex-officio</i>

### Programme Committee

<b>Geoffrey Bodenhausen</b>	Frontiers
<b>Kevin Brindle</b>	Imaging
<b>Janez Dolinsek</b>	Solid State Physics
<b>Simon Duckett</b>	Catalysis

<b>Duncan Farrant</b>	Pharmaceutical Applications
<b>Daniella Goldfarb</b>	Paramagnetic Systems
<b>Malcolm Levitt</b>	High Sensitivity Magnetic Resonance
<b>Beat Meier</b>	Bio-Solids
<b>David Neuhaus</b>	Bio-Macromolecules
<b>Jeremy Titman</b>	Methods in Solids

### **York Local Organizing Committee**

<b>Simon Duckett</b>	<b>Heather Fish</b>
<b>Tom Halsted</b>	<b>Jennifer Potts</b>
<b>Gary Green</b>	<b>Adrian Charlton</b>
<b>David Williamson</b>	

### **Conference Secretary**

**Elaine Wellingham**

For further information: Telephone & Fax: +44 (0)1275 853311 Email: [esw@confsec.co.uk](mailto:esw@confsec.co.uk)

Website: [www.confsec.co.uk](http://www.confsec.co.uk)

### **Posters and oral Presentations**

Posters will feature as an integral part of the meeting. All participants are invited to submit abstracts of scientific communications that will be peer reviewed for possible acceptance. The Program Committee reserves the right to select and finalise the entire program. Please note that an abstract will not be accepted unless the presenting author is registered for the conference. Some selected abstracts will be invited to be presented as oral communications. Your preference for oral and poster presentation should be indicated on the tick boxes in the on-line abstract submission pages. Persons wishing to offer an oral presentation or poster should produce an abstract according to the format below, and submit it on-line by Monday **April 17<sup>th</sup> 2006** using the website **[www.euromar.org](http://www.euromar.org)** . Please note there will be **no on-site registration**.

### **Abstracts**

After you have registered and submitted your abstract(s), confirmation and an acceptance e-mail of its status, will be sent towards the end of April 2006. The abstracts of the accepted communications will be included in an Abstracts Book distributed to all delegates at the start of the conference. Abstracts should be written in English and can only be submitted electronically through the on-line system, which is available at [www.euromar.org/abstracts](http://www.euromar.org/abstracts) . Note that abstracts cannot be submitted by fax or post. Authors will be guided automatically through the system when submitting their abstract

on-line. Should you experience any difficulties, please contact the conference secretariat by e-mail ([esw@confsec.co.uk](mailto:esw@confsec.co.uk)).

## Fees and Accommodation

The fees for attendance at the Conference for delegates registering and paying before **April 17<sup>th</sup> 2006** will be £220 (£110 for students or retired delegates and £50 for accompanying persons or vendor delegates 'exhibitor only'). The registration fee includes the conference dinner to be held at the National Railway Museum on the Thursday evening. **Only single occupancy** en suite rooms and standard rooms, all nonsmoking, are available during the meeting. The full board package for the duration of the meeting (5 nights) will be £420 for an en suite room or £340 for a standard room. The accommodation package includes room plus meals from Sunday evening through to Friday lunch. The exceptions are the Wednesday and Thursday evening meals. The Wednesday afternoon Social Event (£35) will also include the evening meal. For those not going on excursions on Wednesday, dinner can be purchased separately at the conference venue. Alternatively information on hotel accommodation for family groups can be found at [www.york-tourism.co.uk](http://www.york-tourism.co.uk) and meals at the venue, purchased on request to the Conference Secretariat.

## Student Grants

EUROMAR gratefully acknowledges the generosity of the manufacturers of MR equipment, vendors of MR related products and several scientific organisations and industries. As sponsors of EUROMAR, they have made possible a number of grants for students, which will be available from February 2006. A prospective grantee is required to present a poster. A grantee is also eligible for presenting the poster in a contributed lecture. Grant applications will be evaluated by the EUROMAR Board of Trustees and the Program Committee. Students (people currently studying for an undergraduate or postgraduate degree and born in 1976 or later) wishing to apply should submit:

- an abstract of the poster to be presented,
- a short (not more than one page A4) curriculum vitae
- a brief letter of recommendation from his/her supervisor

at the time of registration, by fax or mail to the conference secretary. A deadline of the **31<sup>st</sup> March 2006** has been set for all students wishing to apply for grants. A £200 contribution towards the registration and accommodation will be made and deducted directly from the cost of the student package.

## Conference Secretariat

Any organisational/administrative queries may be referred to

### **Elaine Wellingham**

Conference Secretariat  
Field End House  
Bude Close  
Nailsea, Bristol, BS48 2FQ, UK.  
Tel and Fax: +44 (0) 1275 853311  
Email: esw@confsec.co.uk

## Chairperson

Scientific queries should be referred to

### **Dr. R.Duncan Farrant**

Chairman NMRDG (2003 - 2006)  
GlaxoSmithKline Medicines Research Centre  
Gunnels Wood Road  
Stevenage, SG1 2NY, UK  
Tel: +44 (0) 1438 768026  
Fax: +44 (0) 1438 763552  
e-mail: Duncan.Farrant@gsk.com.

## Local Organiser

Local queries should be referred to

### **Prof. Simon Duckett**

Department of Chemistry  
University of York  
Heslington  
YORK, YO10 5DD, UK.  
Tel: 44 (0) 1904 432564  
Fax: 44 (0) 1904 432516  
Email: sbd3@york.ac.uk

## Scientific Programme

<b>Sunday 16 July</b>			
From 14.00	Registration & Poster mounting		
18.30	Mixer & Dinner		
20.00	Welcome: Central Hall EUROMAR Medal Lecture <b>Sir Peter Mansfield</b>		
21.00	Hospitality suites and Poster mounting		
<b>Monday 17 July</b>			
09.00	Plenary Lectures: Central Hall Imaging: <b>Klaes Golman</b> Solid State Phys: <b>Giorgios Papavassiliou</b>		
10.30	Coffee Break		
11.00	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">           Session 1A: Imaging 1: <b>Silvio Aime</b> Oral Presentation 1 Oral Presentation 2 Oral Presentation 3         </td> <td style="width: 50%;">           Session 1B: Solid State Physics 1: <b>Claude Berthier</b> Oral Presentation 4 Oral Presentation 5 Oral Presentation 6         </td> </tr> </table>	Session 1A: Imaging 1: <b>Silvio Aime</b> Oral Presentation 1 Oral Presentation 2 Oral Presentation 3	Session 1B: Solid State Physics 1: <b>Claude Berthier</b> Oral Presentation 4 Oral Presentation 5 Oral Presentation 6
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12.45	Lunch		
14.15	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">           Session 2A: Imaging 2: <b>Alan Koretsky</b> Oral Presentation 7 Oral Presentation 8 Oral Presentation 9         </td> <td style="width: 50%;">           Session 2B: Paramag.Systems 1: <b>Klaus Moebius</b> Oral Presentation 10 Oral Presentation 11 Oral Presentation 12         </td> </tr> </table>	Session 2A: Imaging 2: <b>Alan Koretsky</b> Oral Presentation 7 Oral Presentation 8 Oral Presentation 9	Session 2B: Paramag.Systems 1: <b>Klaus Moebius</b> Oral Presentation 10 Oral Presentation 11 Oral Presentation 12
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16.00	Tea Break		
16.30	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">           Session 3A: High Sensitivity MR 1: <b>Joerg Wrachtrup</b> Oral Presentation 13 Oral Presentation 14 Oral Presentation 15         </td> <td style="width: 50%;">           Session 3B: Solid State Physics 2: <b>Ferdinando Borsa</b> Oral Presentation 16 Oral Presentation 17 Oral Presentation 18         </td> </tr> </table>	Session 3A: High Sensitivity MR 1: <b>Joerg Wrachtrup</b> Oral Presentation 13 Oral Presentation 14 Oral Presentation 15	Session 3B: Solid State Physics 2: <b>Ferdinando Borsa</b> Oral Presentation 16 Oral Presentation 17 Oral Presentation 18
Session 3A: High Sensitivity MR 1: <b>Joerg Wrachtrup</b> Oral Presentation 13 Oral Presentation 14 Oral Presentation 15	Session 3B: Solid State Physics 2: <b>Ferdinando Borsa</b> Oral Presentation 16 Oral Presentation 17 Oral Presentation 18		
18:00	Vendor presentations: Central Hall		
19.00	Dinner		
20.30	Hospitality Suites		
<b>Tuesday 18 July</b>			
09.00	Plenary Lectures: Central Hall Paramagnetic Sys: <b>Jan Schmidt</b> Methods in Solids: <b>Lyndon Emsley</b>		
10.30	Coffee Break		
11.00	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">           Session 4A: Methods in Solids: <b>Stephen Wimperis</b> Oral Presentation 19 Oral Presentation 20 Oral Presentation 21         </td> <td style="width: 50%;">           Session 4B: Paramagnetic Systems 2: <b>Thomas Prisner</b> Oral Presentation 22 Oral Presentation 23 Oral Presentation 24         </td> </tr> </table>	Session 4A: Methods in Solids: <b>Stephen Wimperis</b> Oral Presentation 19 Oral Presentation 20 Oral Presentation 21	Session 4B: Paramagnetic Systems 2: <b>Thomas Prisner</b> Oral Presentation 22 Oral Presentation 23 Oral Presentation 24
Session 4A: Methods in Solids: <b>Stephen Wimperis</b> Oral Presentation 19 Oral Presentation 20 Oral Presentation 21	Session 4B: Paramagnetic Systems 2: <b>Thomas Prisner</b> Oral Presentation 22 Oral Presentation 23 Oral Presentation 24		
12.45	Lunch		

14.15	Session 5A: BioSolids 1: <b>Marc Baldus</b> Oral Presentation 25 Oral Presentation 26 Oral Presentation 27	Session 5B: Catalysis 1: <b>John Brown</b> Oral Presentation 28 Oral Presentation 29 Oral Presentation 30
16.00	Tea Break	
16.30	Poster Session 1	
18:00	Vendor presentations: Central Hall	
19.00	Dinner	
20:30	Prize Session: AMPERE, ER Andrew and Russell Varian prizes.	
22:00	Hospitality Suites	
<b>Wednesday 19 July</b>		
09.00	Plenary Lectures: Central Hall Catalysis: <b>Kees Elsevier</b> High Sensitivity MR: <b>Bob Griffin</b>	
10.30	Coffee Break	
11.00	Session 6A: Catalysis 2: <b>Michael Anderson</b> Oral Presentation 31 Oral Presentation 32 Oral Presentation 33	Session 6B: High Sensitivity MR 2: <b>HongWen Jiang</b> Oral Presentation 34 Oral Presentation 35 Oral Presentation 36
12.45	Lunch	
13.30 – 21.00	Excursions	
21:00	Hospitality suites	
<b>Thursday 20 July</b>		
09.00	Plenary Lectures: Central Hall BioSolids: Pharmaceutical Applications: <b>Lucio Frydman</b>	
10.30	Coffee Break	
11.00	Session 7A: Pharmaceutical Applications 1 <b>Tony Watts</b> Oral Presentation 37 Oral Presentation 38 Oral Presentation 39	Session 7B: Biosolids 2: <b>Kurt Zilm</b>  Oral Presentation 40 Oral Presentation 41 Oral Presentation 42
12.45	Lunch	
14.15	Session 8A: Pharmaceutical Applications 2 <b>Jacques Courtieu</b> Oral Presentation 43 Oral Presentation 44 Oral Presentation 45	Session 8B: Bio-macro- molecules 1: <b>Gerhard Wagner</b> Oral Presentation 46 Oral Presentation 47 Oral Presentation 48
16.00	Tea Break	
16.30	Poster Session 2	
17:00	Vendor presentations: Central Hall	
18:00	Vendor presentations: Central Hall	
19:00	Remove posters	
20.00	Conference Dinner – Railway Museum	

Friday 21 July		
09.00	Session 9A: Frontiers: <b>Yishay Manassen</b> Oral Presentation 49 Oral Presentation 50 Oral Presentation 51	Session 9B: Bio-macromolecules 2: <b>Frederic Allain</b> Oral Presentation 52 Oral Presentation 53 Oral Presentation 54
10.45	Coffee Break	
11.15	Plenary Lectures: Central Hall Frontiers: <b>Dan Rugar</b> Bio-macromolecules: <b>Peter Wright</b>	
12.45	Close of conference	
13.00	Lunch	
14.00	Departure	

## Deadlines

31<sup>st</sup> March 2006

Deadline for Student Grant applications

17<sup>th</sup> April 2006

Deadline for low rate registration fee and Abstract submittal

9<sup>th</sup> June 2006

Deadline for cancellation of registration for delegates and accompanying persons.

All cancellations must be in writing to the Conference Secretariat.

7<sup>th</sup> July 2006

Deadline for registration. **No on-site registrations!**

16<sup>th</sup> - 21<sup>st</sup> July 2006

Conference at University of York

## **4th Course - Magnetic Resonance Combined with Electrophysiology and with Molecular and Pharmaceutical Action for the Study of Brain Function**

Erice - Sicily, May 21 - 28, 2006

### **Purpose of the Course**

Magnetic Resonance in the last twenty years has generated a wide revolution in biomedical research and in medical diagnostics. More recently the "in vivo" studies of the human brain were extended by new original ways of observing the areas of the human cortex activated by stimuli. The enormous interest in expanding the investigation of the brain is emphasizing the search for new NMR methods capable of extracting information of so far obscure aspects of the brain function. In fact perfusion imaging, diffusion tensor imaging, and other approaches were proposed in order to complement the information obtained by BOLD fMRI. In this course, strong emphasis will be given to the new openings arising from the combination of fMRI and EEG. The acquisition of simultaneous information provided by the different techniques is bound to generate important developments in the near future. The purpose of this course is also to introduce, in a comparative way, all the main existing NMR tools for the brain function investigation. At the same time presentations of new NMR potentialities will create a stimulating base for discussion and learning.

### **Topics of the Course**

- Feasibility of direct detection of neuronal currents using MRI
- MRI of neurocurrents
- MRI and EEG combination
- Neural events underlying the BOLD signal
- Dynamics of brain function by MRI
- NMR/MRI based biosensors for molecular imaging
- Diffusion tensor imaging and brain physiology
- Anatomical and functional architecture of the brain as seen with Diffusion Tensor MRI
- fMRI studies on causality in the human brain
- Fast spectroscopic imaging methods
- Hypothesis and data driven analysis of functional MRI series
- Magnetic resonance imaging and brain physiology

- Ultra-high field functional imaging and spectroscopy
- Conventional and intermolecular multiple-quantum contrast
- Imaging studies of plasticity and recovery after brain injury

Additional lectures and specialized seminars will be contributed by experts.

## Advisory board

### Members

Richard W. Bowtell	Magnetic Resonance Centre, School of Physics and Astronomy, University of Nottingham, Nottingham; UK
Richard Frackowiak	Wellcome Department of Imaging Neuroscience, Institute of Neurology, Institute of Child Health, London; UK
Jens Frahm	Biomedizinische NMR, Forschungs GmbH am, Max-Planck Institut für Biophysikalische Chemie, Göttingen; D
Rainer Goebel	Department of Neurocognition, Faculty of Psychology, Maastricht University, Maastricht; NL
Dae-Shik Kim	Center for Biomedical Imaging, Boston University School of Medicine, Boston, MA; USA
Denis Le Bihan	SHFJ/CEA, Orsay; F
Louis Lemieux	Department of Clinical and Experimental Epilepsy, Institute of Neurology, University College London, London; UK
Nikos K. Logothetis	Max-Planck-Institut für biologische Kybernetik, Tübingen; D
Pierre Magistretti	Institut de Physiologie, Université de Lausanne, Lausanne; CH
Alexander Pines	Chemistry Department, UC Berkeley, Berkeley, CA; USA
Kâmil Ugurbil	Department of Radiology, University of Minnesota, Minneapolis, MN; USA
Warren S. Warren	Center for Molecular and Biomolecular Imaging Frick Laboratories, Princeton University, Princeton, NJ; USA

### Scientific Secretary

Federico Giove	Dipartimento di Fisica, Università degli Studi di Roma "La Sapienza", Roma; I
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## Contact

### **Prof. BRUNO MARAVIGLIA**

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<http://centrofermi-nmr.phys.uniroma1.it/index.html>

# European Schools on Solid-State NMR

## Advanced Level - Biological Solids



May 29th to June 2nd 2006  
Inselhotel Brückentensee Germany

**Registration:**

Forschungsinstitut für  
Molekulare Pharmakologie  
Robert-Rössle-Str. 10  
13125 Berlin  
Andrea Steuer  
steuer@fmp-berlin.de  
Tel.: +49 30 94793 160  
Fax: +49 30 94793 169

**Organizers:** Marc Baldus,  
Huub de Groot, Beat Meier,  
Hartmut Oschkinat, Bernd Reif

**Speakers:**

Marc Baldus  
Andreas Brinkmann  
Matthias Ernst  
Bob Griffin  
Huub de Groot  
Beat Meier  
Niels Nielsen  
Hartmut Oschkinat  
Bernd Reif  
Barth v. Rossum  
Shimon Vega  
Thomas Vossegard  
Kurt Zilm

# AMPERE NMR School Poznań/Wierzba (Poland)

June 22<sup>nd</sup> - July 1<sup>st</sup> 2006

## General Information

The AMPERE Nuclear Magnetic Resonance Summer School pioneered in Poland 13 years ago by Professor Jerzy S. Blicharski from the Jagiellonian University in Cracow will continue with a support of the Adam Mickiewicz University in Poznan, Poland.

The School is organized by the Department of Macromolecular Physics at the Institute of Physics, Poznan University, under the auspices of the GROUPEMENT AMPERE.

The School is addressed to young scientists (PhD students and post-doctorals) and is aimed at acquainting them with theoretical and experimental aspects of NMR methods.

The programme of the School covers the following topics:

- Multi Quantum NMR
- Multi Dimensional NMR; Relaxation
- Relaxation
- Diffusion
- NMR Imaging
- Applications of NMR to Soft Materials

The programme of the School is designed for ten days and consists of two parts:

- **Basic NMR and Tutorial Intensive School** with experimental section and basic lectures, held at Poznan University
- **Advanced NMR with Applications** held in Wierzba at the Polish Great Mazurian Lakes

## International Advisory Committee

H. W. Spiess (Mainz) Germany - President of the Groupement AMPERE	N. Pislewski (Poznan), Poland
J. S. Blicharski (Kraków), Poland	J. Potrzebowski (Lodz), Poland
R. Blinc (Ljubljana), Slovenia	E. Rössler (Bayreuth), Germany
B. Blümich (Aachen), Germany	J. Stankowski (Poznan), Poland
W. J. Chizhik (St. Petersburg), Russia	J. Stepisnik (Ljubljana), Slovenia
F. Fujara (Darmstadt), Germany	D. Suter (Dortmund), Germany
S. Jurga (Poznan), Poland - Vice President of the Groupement AMPERE	E. Burnell (Vancouver), Canada
	M. Ernst (Zurich), Switzerland
	M. Mackowiak (Poznan), Poland

R. Kimmich (Ulm), Germany J. Klinowski (Cambridge), England A. MacKey (Vancouver), Canada P. Morris (Nottingham), England Z. Pajak (Poznan), Poland	D. Michel (Leipzig), Germany J. Tritt-Goc (Poznan), Poland R. Wasylshen (Edmonton), Canada K. de Lange (Amsterdam), Netherlands
---	--

### Organizing Committee

S. Jurga (Poznan), Poland - chairman J. Wasicki (Poznan), Poland E. Szczesniak (Poznan), Poland N. Pislewski (Poznan), Poland	J. Tritt-Goc (Poznan), Poland S. Glowinkowski (Poznan), Poland M. Makrocka-Rydyk (Poznan), Poland J. Krzaczkowska (Poznan), Poland
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### Invited Speakers

H. W. Spiess (Mainz) Germany J. S. Blicharski (Kraków), Poland R. Blinc (Ljubljana) Slovenia B. Blümich (Aachen) Germany E. Burnell (Vancouver), Canada W. J. Chizhik (St. Petersburg), Russia M. Ernst (Zurich), Switzerland J. Fraissard (Paris) France F. Fujara (Darmstadt), Germany F. Grinberg (Leipzig), Germany S. Jurga (Poznan), Poland R. Kimmich (Ulm), Germany J. Klinowski (Cambridge), England D. Kruk (Darmstadt), Germany	Z. Lalowicz (Kraków), Poland K. de Lange (Amsterdam), Netherlands A. MacKey (Vancouver), Canada M. Mackowiak (Poznan), Poland D. Michel (Leipzig), Germany P. Morris (Nottingham), England H. Peemoeller (Waterloo), Canada J. Potrzebowski (Lodz), Poland E. Rössler (Bayreuth) Germany J. Stepisnik (Ljubljana), Slovenia D. Suter (Dortmund), Germany J. Tritt-Goc (Poznan), Poland R. Wasylshen (Edmonton), Canada
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### Location

The school will take place at:

- Adam Mickiewicz University “Morasko” Campus in Poznań (Poland) - first part,
- Conference Centre in Wierzba (Poland) at the Great Mazurian Lakes - second part

### Fee

Total:	400 €
▶ Basic of NMR & Tutorial (Poznań):	70 €
▶ Advanced NMR & Applications (Wierzba):	330 €

The fee includes full board, accommodation and proceedings.

Students participating in the Summer School may apply for a refund in the form of a stipend available on request. Those interested in receiving financial support are kindly asked to contact organizers ( [school@amu.edu.pl](mailto:school@amu.edu.pl)), fill in the registration form and attach the request.

## Registration

To obtain further information please complete the registration form available at the address: <http://www.staff.amu.edu.pl/~school/>

## Deadlines

Registration: March 1, 2006

Abstract Submission: April 1, 2006

Fee: May 1, 2006

## Contact

Department of Macromolecular Physics,

Faculty of Physics,

Adam Mickiewicz University

Umultowska 85,

61-614 Poznań, Poland

tel.+48(61)8295044, fax.+48(61)8295245

e-mail: [school@amu.edu.pl](mailto:school@amu.edu.pl)

International Symposium and Summer School in Saint Petersburg

## “Nuclear Magnetic Resonance in Condensed Matter”

3rd Meeting “NMR in Heterogeneous Systems”, St. Petersburg, Petrodvorets, Russia  
10–14 July 2006



Organising Institution:

**Saint Petersburg State University**

<http://nmr.phys.spbu.ru/NMRCM-2006>

[nmrcm@esr.phys.spbu.ru](mailto:nmrcm@esr.phys.spbu.ru)

### Organising Committee

#### **Co-Chairmen:**

V. I. Chizhik (Saint Petersburg)

R. Z. Sagdeev (Novosibirsk)

#### **Vice-Chairmen:**

V. S. Kasperovich (Saint Petersburg)

A. V. Komolkin (Saint Petersburg)

#### **Members:**

A. V. Egorov (Saint Petersburg)

V. V. Frolov (Saint Petersburg)

A. V. Gribanov (Saint Petersburg)

S. Jurga (Poznań)

V. V. Matveev (Saint Petersburg)

D. Michel (Leipzig)

G. Papavassiliou (Athens)

M. S. Tagirov (Kazan)

A. B. Yaroslavtsev (Moscow)

## Contact Addresses

Dr. Andrei V. Komolkin (Ref.: **NMRCM 2006**)  
Department of Quantum Magnetic Phenomena  
V. A. Fock Institute of Physics  
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Petrodvorets, 198504, Saint Petersburg,  
RUSSIA  
Phone: +7-(812)-428 4479, +7-(812)-428 4362  
Fax: +7-(812)-428 7240  
e-mail: nmrcm@esr.phys.spbu.ru  
URL: <http://nmr.phys.spbu.ru/NMRCM-2006>

## Invitation

Saint Petersburg State University continues Annual International Symposium and Summer School “**Nuclear Magnetic Resonance in Condensed Matter**” (**NMRCM**). The third meeting under the subtitle “**NMR in Heterogeneous Systems**” will be opened on Monday, July 10, 2006 and will be closed on Friday, July 14, 2006. The goal of the meeting is to provide a platform to scientists and students for use of all aspects of nuclear magnetic resonance methods and techniques as well as computational and theoretical approaches for the investigation of structure, dynamics and other properties of heterogeneous systems. The Organising Committee kindly invites you and your colleagues to Saint Petersburg to participate in the International Symposium and Summer School **NMRCM 2006**.

## Location

**NMRCM 2006** will take place at the Petrodvorets Campus of Saint Petersburg University. Petrodvorets is a charming town, former summer residence of Russian Tsars, a place famous for its parks, palaces and fountains. Petrodvorets is located at the South Coast of the Gulf of Finland at a distance of 30 km from the centre of St. Petersburg. St. 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 third meeting **NMRCM 2006** will cover all aspects of nuclear magnetic resonance in heterogeneous systems. Some of the important topics are:

- nanomaterials

- porous media
- macromolecules in liquids
- liquid crystals (thermotropic and lyotropic), micellar systems
- solid solutions
- magnetic materials
- NMR imaging
- computer simulations
- applications

Scientists and students from all countries are invited to make invited lectures, oral reports and poster presentations. The official language of the Symposium and School is English. The Book of Abstracts will be published and distributed to each active participant on arrival at **NMRCM 2006**.

### Registration Fee

Active participants — 250 €, students — 125 €

Members of the Groupement AMPERE have a discount of 25 €

Accompanying persons — 125 €

The fee includes organisation costs, **NMRCM 2006** materials, visa support and registration, welcome-party, and coffee breaks.

Number of participants is limited by 150 persons.

### Important Dates

28 February	Deadline for Preregistration Form
3 March	Second Announcement and Call for Papers
17 April	Deadline for the receiving of Abstracts and visa applications
24 April	Letter of Acceptance
22 May	Deadline for the receiving of registration fee
1 June	Third Announcement
15 June	Programme

# 8<sup>th</sup> International Bologna Conference on Magnetic Resonance in Porous Media

(Bologna MRPM8)

<http://www.mrpm.org>

## **AMPERE Event**

organized under the auspices of  
Alma Mater Studiorum  
University of Bologna

September 10 - 14, 2006 - Bologna, Italy



### **Organization**

The *8-th International Bologna Conference on Magnetic Resonance in Porous Media* (Bologna MRPM8) will be held at the [University of Bologna](http://www.unibo.it), Italy, 10 – 14 September 2006.

### **Organizing Committee**

Paola Fantazzini (Chair, Department of Physics, University of Bologna); Robert J. S. Brown (U. Bologna); Villiam Bortolotti (U. Bologna); Giovanni Brighenti (U. Bologna); Fiorenzo Filippetti (U. Bologna); Carla Garavaglia (U. Bologna); Mirko Gombia (U. Bologna); Giuseppe Maddinelli (ENITECNOLOGIE, Milano), Paolo Schembri (U. Bologna).

### **International Scientific Advisory Committee**

Paola Fantazzini (I, Chair), Ioan Ardelean (RO), Jerzy Blicharski (PL), Bernhard Blümich (D), Peter Blümler (D), Robert J.S. Brown (USA), Paul Callaghan (NZ), Keh-Jim Dunn (USA), Eiichi Fukushima (USA), Lynn Gladden (GB), John Gore (USA), Laurie Hall (GB), Martin Hürlimann (USA), Jörg Kärger (D), Rainer Kimmich (D), Igor Koptuyug (RU), Jean-Pierre Korb (F), Peter McDonald (GB), Bruno

Maraviglia (I), Nikolaus Nestle (D), Ken Packer (GB), Pabitra Sen (USA), Siegfried Stapf (D), John Strange (GB), Hans Thomann (USA), Rustem Valiullin (RU), Sergey Vasenkov (D), Marija Vilfan (SI).

## The MRPM Conferences

This conference series was founded at the University of Bologna, where the first meeting was held in 1990. MRPM<sub>2</sub> was held in 1993 at the University of Kent at Canterbury, UK, MRPM<sub>3</sub> in 1995 at the Université Catholique de Louvain-la-Neuve, Belgium, MRPM<sub>4</sub> in 1997 in Trondheim, Norway. The conference returned to Bologna in 2000. MRPM<sub>6</sub> was organized in 2002 at the University of Ulm, Germany, and MRPM<sub>7</sub> in Palaiseau, France. The Proceedings of all the previous MRPM Conferences, have been published as Special Issues of Magnetic Resonance Imaging. They have been important for the formation and the growth of the MRPM community and give an up-to-date and complete documentation of the evolution of this discipline.

Since the vitality and interest of these Conferences and the consideration that the community which the conference series serves had grown considerably over the years in such a way that it now extends to cover all continents of the globe, after MRPM<sub>7</sub> the community has joined the *Groupment Ampere* as the *MRPM Division*, and the Conferences, which now are explicitly called the “*Bologna MRPM Conferences*,” are **AMPERE Events**. A Steering Committee composed of P. McDonald, P. Fantazzini, R. Kimmich, J-P. Korb and P. Sen has been charged with the responsibility to give to the MRPM community a formal structure to preserve the continuity and quality of future meetings.

## Scope

The conference is devoted to the progress in Magnetic Resonance in Porous Media and in our understanding of Porous Media themselves, and to stimulate the contact among people from various parts of Academia and Industry. Researchers in Physics, Chemistry, Engineering, Life Sciences, Mathematics, Computer Sciences, and in Industrial Applications will benefit from exchange of ideas, experiences, and new approaches.

Topics will include innovative techniques to study structure, behavior of fluids, and their interactions in every kind of natural and artificial materials, including rocks, cements, biological tissues, foodstuffs, wood, particle packs, sediments, pharmaceuticals, zeolites, and bioconstructs. New data acquisition and processing techniques are also expected to be strong features.

## Programme

The programme will run from 14.00 on Sunday, 10 September to 16.00 on Thursday, 14 September.

## Giulio Cesare Borgia Prize

The *Giulio Cesare Borgia Prize for Young Researchers* will be awarded. The Prize (two thousand EURO) has been established with the following motivation: *In memory of the contribution made by Giulio Cesare Borgia to the development of Magnetic Resonance in Porous Media and for the particular attention he always paid to the enthusiasm, passion, and courage of young people who undertook the difficult and adventurous path of scientific investigation in this fascinating area of research.* The award will be presented to the emerging scientist who, based on a presentation to the community at the conference, shows greatest promise for future scientific leadership. The award will normally be given to those under the age of 35. The committee will be chaired by Paola Fantazzini, and awarded during the closing ceremony.

## Invited Speakers

The following distinguished scientists have so far accepted invitations to be "Invited Speakers":

Ioan Ardelean (RO)

Bernhard Blümich (D)

Paul T. Callaghan (NZ)

Cinzia Casieri (I)

Mark Does (USA)

Denise Freed (USA)

Eiichi Fukushima (USA)

Josef Granwehr (UK)

Jean-Pierre Korb (F)

Carlos Mattea (D)

Peter McDonald (UK)

Alex Pines (USA)

Yi-Qiao Song (USA)

## Conference Proceedings

As for the previous Conferences, the Proceedings of the Bologna MRPM8 Conference will be published in a special issue of *Magnetic Resonance Imaging*. Three kinds of contributions will be published: Invited (**I**) papers and Contributed (**C**) papers (those accepted for twenty minute oral presentations), and Abstracts (**A**) of all other accepted contributions. **I** and **C** papers, and **A** will be published in the Proceedings subject to the strict specifications and length limitations which have now become truly necessary. Among other requirements is that the **I** and **C** papers must not exceed four journal pages

and that **A** must not exceed one journal column. Over-length contributions CANNOT be published. Instructions for the **I** and **C** papers will be given later. Abstracts of all the contributions accepted for the Conference will be published in the BOOK of ABSTRACTS in the *same format* in which abstracts **A** will be published in the Proceedings, so ALL THE ABSTRACTS must be submitted in accordance with the attached instructions (see SUBMISSION OF ABSTRACTS).

## Submission of Abstracts

There will be three main categories of presentations: Invited Lectures (25 + 5 minute oral presentations), Contributed Oral presentations (15 + 5 minute including discussion), and Posters. A few Posters will be selected for additional five-minute oral presentations. Scientists wishing to present papers should send their abstracts by e-mail (mail to: [abstract@mrpm.org](mailto:abstract@mrpm.org)). All the submitted Abstracts (including Abstracts of Invited Lectures) must be written in English and typed STRICTLY in accordance with the specifications on the enclosed example. Any Abstract that does not satisfy the requirements cannot be accepted.

The number of Contributed Oral presentations has to be limited, and participants are encouraged to present communications as Posters. Posters will be selected according to the same high standards used for the talks. Plenty of time will be devoted to poster sessions. Please indicate whether you wish to give a Contributed Oral presentation, or a Poster. Your wishes will be taken into account wherever possible.

The Abstracts of the accepted Posters will be published, as they are, in the special issue of *Magnetic Resonance Imaging* devoted to the Proceedings of the Conference. Manuscripts of Invited Lectures and Contributed Oral Presentations will be reviewed for publication in the same issue, and the peer review process will take into account the high standards of this Journal. The letter of acceptance of a contribution for presentation will include the category of presentation and, in the case of Contributed Oral presentation, details concerning the format, including length, of the final manuscript. It is important to note that, in order to limit the publication time, the manuscripts of Invited and Contributed Papers will be collected at the conference ONLY.

Abstracts for all contributions must be submitted by the deadline of **15 March, 2006**. Please indicate your preferred category of presentation. The authors will be informed of the acceptance and of the category of presentation by **15 May, 2006**. The deadline for early registration is **20 May, 2006**. An abstract accepted for the Conference will be included in the Book of Abstracts only if one of the authors is registered and fee paid by **20 August, 2006**.

## Summary

Kind of presentation	Invited Lecture	Contributed Oral	Poster	Selected Poster
Time allotted	25 + 5 minutes	15 + 5 minutes	Poster session	Poster session + 5 minutes
Length allowed in <i>Magn Reson Imaging</i>	4 Journal pages	4 Journal pages	One Journal column	One Journal column
Acceptance for the presentation	-----	By 15 May 2006	By 15 May 2006	By 15 May 2006
Acceptance for publication in <i>Magn Reson Imaging</i>	After peer review of the manuscript delivered at the Conference	After peer review of the manuscript delivered at the Conference	Abstract as submitted and accepted	Abstract as submitted and accepted

## Social Programme

A welcome party will be offered during registration on Sunday, 10 September. An accompanying person programme is being arranged.

## Venue

The welcome cocktail and the conference will be held at the Engineering Faculty of the University of Bologna.

## Accommodation

Conference accommodations will be in a variety of hotels situated in the Bologna historic center. You can use the booking facilities offered by the [CONFERENCE ORGANISING SECRETARIAT](#).

## Registration

Registration fees include welcome cocktail, coffee breaks and lunches, but NOT the conference banquet and accommodation. In order to have the reduced fee for students, a student must certify his/her status by sending to Paola Fantazzini [fantazzini@mrpm.org](mailto:fantazzini@mrpm.org) a support letter from either his/her supervisor or group leader. A limited number of student scholarships may be also available.

The registration fee for the conference participants is:

### Early registration fee by 20 May:

AMPERE members 420 EURO

Not AMPERE members 420 EURO + 30 EURO (membership of AMPERE until Dec. 2007)

Students AMPERE members 260 EURO

Students Not AMPERE members 260 EURO + 15 EURO (membership of AMPERE until Dec. 2007)

Accompanying person 100 EURO

### After 20 May:

AMPERE members 470 EURO

Not AMPERE members 470 EURO + 30 EURO (membership of AMPERE until Dec. 2007)

Students AMPERE members 300 EURO

Students Not AMPERE members 300 EURO + 15 EURO (membership of AMPERE until Dec. 2007)

Accompanying person 120 EURO

**On Line Registration**, including Payment.

## Payment

Payment can be made in one of three ways.

By bank remittance.

By credit card by means of ON LINE PAYMENT.

At the Conference by credit card, or cash.

## Cancellation

For cancellation before 31 July, a cancellation fee of 50 EURO will be retained. For cancellation after that date no refund can be made. Substitutions will be allowed.

## Travel Arrangements

Participants are advised to make their own travel arrangements to Bologna. Daily flights to Bologna are available from several Italian and European airports. Bologna is the most important railway junction in Italy, therefore it is well connected to Italian and European cities. Many toll roads and freeways link Bologna to Italian and European cities.

## Scientific Secretariat

**Paola Fantazzini, Department of Physics, U. of Bologna**

e-mail: [fantazzini@mrpm.org](mailto:fantazzini@mrpm.org)

**Villiam Bortolotti, Department DICMA, U. of Bologna**

e-mail: [bortolotti@mrpm.org](mailto:bortolotti@mrpm.org)

Tel. +39 051 2095119, +39 051 2090458, Fax +39 051 2090457 (include the 0 in the city code)

## Organising Secretariat & Hotel Accommodation

H.T. CONGRESSI Srl

Tel: +39 051 480826, Fax +39 051 480582 (digit 0 in the city code)

<http://www.htcongressi.com/mrpm8>

e-mail: [clara.congrex@virgilio.it](mailto:clara.congrex@virgilio.it)

## Deadlines

Submission of abstracts: **15 March 2006**

Early registration: **20 May 2006**

(Notification of acceptance and category of presentation: 15 May 2006)

Registration with abstract included in the Book of Abstracts: **20 August 2006**)

# European School on Solid State NMR - 3<sup>rd</sup> Basic Level Course

Safed College Safed, Galilee, Israel

September 10-15 , 2006

## Topics

MAS, CPMAS, de- and re-coupling, MQMAS, DFT Calculations of Chemical Shift parameters;

## Applications in

Organic & Inorganic Chemistry, Materials and Structural Biology;

## Practical use of Simulations

SIMPSON, DMFIT.

## Lecturers

*Robert Glaser, Henrike Heise, Dominique Massiot, Asher Schmidt, Angelika Sebald, Hans W. Spiess, Shimon Vega*

## Organizers

Shimon Vega, Asher Schmidt, Stefano Caldarelli

<http://www.ssnmr-school.org/basic2006.html>

Report on The ERICE Course on

## **“Brain Function Research by Magnetic Resonance, Electrophysiology and Molecular Probes”**

Erice, 23-29 May 2005

Any fundamental step for brain investigation lies in the discovering of new physical ways and consequently in the invention of new original modalities which will allow the observation of the physiological and metabolic processes occurring during the brain activity. Such processes have a time scale which ranges from milliseconds to several seconds while some of the most successful modalities, like fMRI or MRS are rather slow. It is then more and more urgent on one hand to find new efficient techniques, on the other hand to try to combine the existing modalities in order to gather information through the better features of each of them.

The “International School on Magnetic Resonance and Brain Function” is a permanent institution, located in Erice (Sicily) at the Ettore Majorana Foundation directed by Prof. Zichichi. The main purpose of this School is to gather some of the best researchers at the frontiers of magnetic resonance, of brain physiology and metabolism, of neurology and of other techniques relevant to specific targets of brain research, in order to create a Permanent Forum for discussion, confrontation of ideas, promotion of collaboration and formation of new talents.

One of the reasons that has made this year Course “special”, was the presence of one of the scientists ,who have contributed in a fundamental way to the history of NMR: **Myer Bloom**, Professor at the University of British Columbia, Canada. He has given a lecture on “Dielectric Properties of Human Brain Lipids”. Unfortunately, he could not complete in time a contribution for this MRI Issue but I want to acknowledge some of his scientific achievements, which range from fundamental studies in gas relaxation to biological membranes. In particular in the field of biological membranes, in which he has being working for more than thirty years, he gave crucial quantitative contributions both to the investigation of the lipid bilayer structure and to the lipid–protein interactions. The special composition of the human brain lipids and their possible role were the more recent subject of Myer’s work.

The purpose of this Third Course **“Brain Function Research by Magnetic Resonance, Electrophysiology and Molecular Probes”** is to find new ways of integration of the investigation by Magnetic Resonance, by the electrophysiological methods and by the

potential use of “ NMR tracers”, which can range from isotopically labelled molecules to hyperpolarized nuclei belonging to compounds capable of crossing the haemato–encephalic barrier. In fact the Blood Oxygen Level Dependent (BOLD) fMRI although widely used in several applications, is intrinsically complicated to be interpreted. The cause of the BOLD effect is actually due to a combination of physiological changes during neurons activation. The interlacing and localization of such physiological changes is at the moment not quite solved. BOLD fMRI is also too slow to detect the quick response of the nervous system. Hopefully, by the contemporaneous use of these modalities better insight will be achieved. Therefore, this new branch was selected as a very promising frontier, which allows the combination of the fast and well established electrical information with the morphological and functional data arising from the slow NMR. Particularly worth of attention are also the implications of this joined measurement with pathologies like Epilepsy. Other fast techniques like MEG, whose fundamental development has been stagnating for decades while having only technical enrichment, are cut off from the possibility of simultaneous combined measurements with fMRI, for magnetic incompatibility.

The frontier of high magnetic field fMRI, also in connection with electro–physiology, was introduced in this course with the purpose of discussing the state of advancement on the projects and of deepening the advantages arising from the higher fields but at the same time of evaluating the increasing problems due to susceptibility effects and relaxation times deterioration. Reports on neuronal currents detection were also given. This sort of seedling is still rather far from reliable feasibility, yet the great importance that this tool might have makes it very worth deepening. An eventual success of this approach would, in fact, allow a real functional imaging, being the currents the direct manifestation of the neuronal activation. The present stage of this technique has shown some preliminary positive results; still the substantial insensitivity of this method to the magnetic field intensity does not allow too much optimism for the future, unless some smart innovation is introduced.

The next Course (4<sup>th</sup>) of the School will be held on May 21–28, 2006, in Erice with the title: “**Magnetic Resonance combined with electrophysiology and with molecular and pharmaceutical action for the study of Brain Function**”. The subjects that will be proposed in this meeting will include also some presentations of the state of the art of BCI (Brain Computer Interface) particularly in connection with the potential role that fMRI can play in the organization and optimisation of BCI.

Bruno Maraviglia

Final Report

## **8th International Conference on Magnetic Resonance Microscopy (ICMRM)**

*“The Heidelberg Conference”*

The 8th ICMRM was organized under the auspices of the Division of Spatially Resolved Magnetic Resonance of the Groupement AMPERE and was held in Dokkyo University School of Medicine, Mibu, Tochigi, Japan over the period Aug. 22-26, 2005. It was organized into two parts – an Educational Program (Aug. 22) followed by the General Conference (Aug. 23-26). The ICMRM was attended by approximately 133 scientists of whom 81 registered for both the Educational Program and the General Conference. The conference received external support in the form of contributions from a number of industrial companies, DUSM and Tochigi Prefecture. The Educational Program consisted of 6 lectures, starting in the morning of Aug. 22 and covered all areas from nuts & bolts to X-nuclei of MR imaging. The General Conference was preceded by a reception in the evening of Aug. 22, with the scientific program starting in the morning of Aug. 23. The meeting was highlighted by the Keynote Lecture by Prof. Seiji Ogawa, the founder of the functional MRI, entitled ‘Expectation to MR Microimaging.’ The General Conference consisted of 9 invited plenary lectures, 34 contributed oral talks, and 77 contributed posters presented in 2 sessions. Separate sessions were devoted to NMR hardware, industrial applications, solid state NMR/NQR, materials NMR, porous media, diffusion/flow, hyperpolarized nuclei, chemical applications, biomedical magnetic resonance, biological NMR, and Young Investigators’ Award presentations.

Speakers in the Educational Program were

**Eiichi Fukushima** (Albuquerque, USA)

**Paul Callaghan** (Wellington, New Zealand)

**Bernhard Blümich** (Aachen, Germany)

**Bruce Balcom** (New Brunswick, Canada)

**Axel Haase** (Würzburg, Germany)

**Gil Navon** (Tel Aviv, Israel)

Invited speakers in the General Conference included

**Kuniyasu Ogawa** (Tokyo, Japan)

**Yi-Qiao Song** (Ridgefield, Connecticut, USA)

**Yang Xia** (Rochester, Michigan, USA)

**Ichio Aoki** (Kyoto, Japan)

**Igor V. Koptug** (Novosibirsk, Russia)  
**Rainer Kimmich** (Ulm, Germany)  
**Joseph Seymour** (Bozeman, Montana, USA)  
**Michael L. Johns** (Cambridge, UK)  
**Nobuyuki Ishida** (Tsukuba, Japan)

From abstracts submitted for the Young Investigators' Program, 8 finalists were selected for presentations of their work in the Young Investigators' Session. All finalists had their registration fees waived and received SUSHI awards, and winners (Juan Perlo and Shin Utsuzawa) also received cash prizes. The 8 finalists were

**Mi Jung Kim** (Kent, Ohio, USA)  
**Alexandre A Khrapitchev** (Aachen, Germany)  
**Christopher H. Arns** (Canberra, Australia)  
**Antoine Lutti** (Wellington, New Zealand)  
**Andrea Amar** (Aachen, Germany)  
**Juan Perlo** (Aachen, Germany) – Winner  
**Susie Y. Huang** (Los Angeles, USA)  
**Shin Utsuzawa** (Tsukuba, Japan) – Winner

All sessions were kept on time except for the visit of a strong typhoon. We had to cancel the morning session on Friday and moved it to the afternoon. Thus, the official Conference Excursion to visit Nikko on Friday afternoon was cancelled. A short version was arranged for the accompanying persons with volunteers to assist them. Other recreational activities (excursions) were held on Aug. 24 including “7 magnets in the Mt. Tsukuba,” “Mashiko Pottery,” and “Trip to Utsunomiya”. The Conference Banquet (in the evening of Aug. 26), was held in the old main dining room of the historical Nikko Kanaya Hotel.

The Executive Committee for the 8th ICMRM consisted of Katsumi Kose and Yoshiteru Seo (Co-Chairs). The Local Organizing Committee consisted of Youji Arata, H. Kamei, Nobuyuki Ishida, Kuniaki Ogawa, Yoko Kanazawa, Koji Saito, Mineyuki Hattori, Tomoyuki Haishi, S. Matsui, Fumiya Mitsumori, Masataka Murakami, and Tokuko Watanabe.

All lectures in the Educational Program were recorded on DVDs to be distributed to all participants of the 8th ICMRM. The DVD contents are licensed under a Creative Commons License. Additional DVDs can be purchased for 3,000 YEN each including postal fee. Interested purchasers should contact Yoshiteru Seo.

The 9th ICMRM is scheduled for September 3-7, 2007, in Jülich, Germany. Peter Blümmler, Bernhard Blümich, Hank Van As and Dagmar von Dusschoten are local organizers.

Yoshiteru Seo, Cochair of 8th ICMRM

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## Future Conferences

### AMPERE Events

#### 2006

International School on Magnetic Resonance and Brain Function - 4th Course: Magnetic Resonance combined with electrophysiology and with molecular and pharmaceutical action for the study of brain function	Erice, Sicily (Italy)	<b>May 21-28, 2006</b>
Int'l. Symposium & Summer School "NMR in Condensed Matter" 3 <sup>rd</sup> Meeting, "NMR in Heterogeneous Systems"	Saint Petersburg (Russia)	<b>July 10-14, 2006</b>
EUROMAR joint EENC/AMPERE/British NMR-DG meeting	York (U.K.)	<b>July 17 - 21, 2006</b>
6 <sup>th</sup> Colloquium on Mobile NMR 2006 "Specialized Colloque AMPERE"	Aachen (Germany)	<b>September 6 - 8, 2006</b>
The 8th International Bologna Conference on Magnetic Resonance in Porous Media	Bologna (Italy)	<b>September 10-14, 2006</b>
European School on Solid-State NMR - 3rd Basic Level Course	Safed, Galilee (Israel)	<b>September 10-15, 2006</b>

#### 2007

EUROMAR joint EENC/AMPERE/British NMR-DG meeting	Tarragona (Spain)	<b>July 16 - 21, 2007</b>
9th International Conference on Magnetic Resonance Microscopy	Aachen (Germany)	<b>September 3 - 7, 2007</b>

### OTHER EVENTS

#### 2006

7 <sup>th</sup> Igler NMR Tage	Obergurgl (Austria)	February 12-15, 2006
47 <sup>th</sup> ENC	Asilomar Conference Center, Pacific Grove, CA, (USA)	April 23-28, 2005
21st NMR Valtice Meeting of the Central European NMR Discussion Groups	Valtice, (Czech Republic)	April 23-26, 2006
14th ISMRM Meeting	Seattle, Washington (USA)	May 6-12, 2006
Int'l. School on High Field NMR Spectroscopy for Solids & Liquids	Les Houches (France)	May 14-19, 2006
48th Annual Rocky Mountain Conference on Analytical Chemistry	Breckenridge, Colorado (USA)	July 23-27, 2006
SMASH 2006	Burlington, Vermont (USA)	September 10-13, 2006
Gordon Research Conference Computational Aspects of Biomolecular NMR	Centre Paul Langevin, Aussois (France)	September 24-29, 2006

## 2007

15 <sup>th</sup> ISMRM Meeting	Barcelona, (Spain)	May 12-18, 2007
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## 2008

16 <sup>th</sup> ISMRM Meeting	Toronto, Ontario, (Canada)	May 3-9, 2008
23 <sup>rd</sup> ICMRBS	San Diego, California (USA)	August 24 - 29, 2006

## 2009

17 <sup>th</sup> ISMRM Meeting	Honolulu, Hawai'i, (USA)	April 18-24, 2009
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