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BULLETIN DU GROUPEMENT

d'informations mutuelles

AMPERE

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

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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.

Online 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		
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Date:.....

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

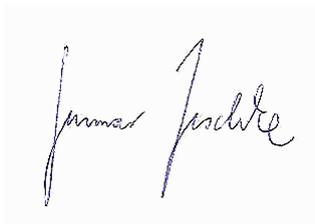
Editorial

Dear AMPERE colleagues,

the world of today is moving fast and this Bulletin is not sufficient to distribute all the required information timely. The Bureau members have thus decided to create an AMPERE mailing list, which is linked to the NMR mailing list maintained by Dror Warschawski at the CNRS Institut de Biologie Physico-Chimique. Meanwhile you should have received the first mails with information on conferences and job opportunities. More information can be found at <http://apex.ibpc.fr/www/info/nmr>. I want to thank Dr. Warschawski for maintaining this list, also on behalf of Groupement AMPERE and want to encourage you to use it for distributing information.

Our main annual event, the EUROMAR congress, will take place July 6-11, 2008 in St. Petersburg, Russia. You can find information on the venue, key dates, and speakers on pages 11-15. We think that the organizers have assembled an attractive preliminary program for both the conference and the EUROMAR school. Of course, the success of a conference strongly depends not only on invited talks, but also on contributed talks and posters and on the spirit of the audience. Your participation is needed.

During the EUROMAR congress 2008 the Raymond Andrew Prize will be awarded to a young scientist for an outstanding Ph.D. thesis. Please note that the final date for nominations is already February 15th to ensure that the visa procedure for the awardee can be completed in time for the conference. You can find the full call for nominations on p. 4. The laudations for the AMPERE and Raymond Andrew prizes 2007 will appear in the next issue.

A handwritten signature in blue ink, reading "Gunnar Jeschke". The signature is written in a cursive style with a large initial 'G'.

Gunnar Jeschke

Konstanz, November 2007

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

For the Raymond Andrew Prize 2008 the AMPERE Prize Committee is seeking your help in searching for qualified candidates who completed their dissertation during the period of 2006/2007. The prize will be presented during the EUROMAR in St. Petersburg (Russia) from 6th to 11th July 2008.

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

andrewprice@nmr.phys.chem.ethz.ch

Suggestions must be received by 15th February 2008 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,

Gunnar Jeschke
General Secretary

Report of the event

The AMPERE Nuclear Magnetic Resonance School, that has been existing for 15 years and attracting many lecturers and participants from the whole world, was organized by the Department of Macromolecular Physics of the Institute of Physics, Adam Mickiewicz University under the auspices of the GROUPEMENT AMPERE and with the financial support of SoftComp Programme and Faculty of Physics.

The venue of the School was Bukowina Tatrzańska, one of the most attractive places in Polish Tatra Mountains, close to Zakopane.

The School was addressed to young scientists (post graduate students, PhD students and post-doctoral students) and aimed at acquainting them with theoretical and experimental aspects of NMR methods and their applications, especially in nano-science, materials-science and soft-materials. It was the forum for presenting the basic and advanced NMR techniques, recent research, unconstrained discussions and for initiating common studies and cooperation between the scientists.

This year the programme of the School was designed for 7 days and comprised 28 lectures, 11 oral presentations and 2 poster sessions with 57 posters presented. The School was attended by 105 participants (including 48 PhD students and 30 professors), from 22 countries such as Germany, Russia, Canada, Netherlands, Slovenia, Switzerland, France, USA, UK, India, Pakistan, Jordan, Mexico and Poland.

Lectures given by the leading world NMR specialist were emphasizing the recent development and novel applications of NMR techniques in materials science, biology and medicine:

- **R. Böhmer** (Dortmund), Germany
Solid-state NMR of the translational dynamics in ion conductors

- **J. S. Blicharski** (Kraków), Poland
Nuclear spin relaxation in periodically perturbed systems
- **G. Buntkowsky** (Jena), Germany
Solid state NMR-studies of guests molecule in novel carbon and silica based nanomaterials
- **E. Burnell** (Vancouver), Canada
NMR of solutes in liquid crystals: smectic order parameters and conformational averaging
- **K. de Lange** (Amsterdam), Netherlands
Automated analysis of complex high-resolution NMR spectra using genetic algorithms
- **B. Geil** (Dortmund), Germany
A Generalized treatment of stimulated echo experiments
- **F. Fujara** (Darmstadt), Germany
Neutron scattering studies of the glass transition
- **M. Giersig** (Bonn), Germany
Sophisticated nanostructures and their applications
- **J. Granwehr** (Nottingham), United Kingdom
Understanding and optimizing dissolution dynamic nuclear polarization
- **M. Kaupp** (Wurzburg), Germany
Progress in the quantum chemical calculation of magnetic resonance parameters
- **K. Kempa** (Boston), USA
Electromagnetic properties of nanostructures
- **R. Kimmich** (Ulm), Germany
Diffusion, confinement, and cooperativity effects of chain dynamics in polymer melts studied by field-cycling NMR relaxometry
- **D. Kruk** (Darmstadt), Germany
Evolution and relaxation of multi-spin systems in examples
- **O. B. Lapina** (Novosibirsk), Russia
NMR studies of the structure and NMR studies of thin oxide
- **A. MacKay** (Vanouver), Canada
Magnetic resonance techniques for investigation of brain pathology
- **B. Meier** (Zurich), Switzerland
Magnetic resonance force detection: new NMR experiments on the nanoscale
- **D. Michel** (Leipzig), Germany
Two-dimensional ^1H MAS NMR and relaxation studies of molecules in zeolites
- **K. Müller** (Stuttgart), Germany
Structure, dynamics and order-disorder phenomena in solids: applications of solid-state NMR spectroscopy
- **M. Potrzebowski** (Łódź), Poland
NMR study of structure and dynamics of amino acids and small peptides in the solid state
- **E. Roduner** (Stuttgart), Germany
Using spin polarized positive muons as magnetic probes in matter
- **E. Rössler** (Bayreuth), Germany
Quasi-logarithmic relaxation in polymer-plasticizer systems studied by 2D NMR
- **K. Saalwächter** (Halle/Saale), Germany
Recent advances in the low-field NMR characterization of polymeric soft materials

- **S. Stapf** (Aachen), Germany
NMR k-space and q-space applications in Chemical Engineering
- **J. Stepišnik** (Ljubljana), Slovenia
Spin echo methods to study motions in polymers, porous media and granular systems
- **P. Tekely** (Paris), France
Probing molecular geometry, intermolecular contact and phase structure in organic and inorganic solids
- **J. Tritt - Goc** (Poznań), Poland
Characterisation of novel glucofuranose-based low molecular weight organogelator through ¹H NMR, MRI, DSC, and FT IR methods
- **R. Wasylshen** (Edmonton), Canada
Interrogations of quadrupolar nuclei at high applied magnetic fields
- **J. Waśicki** (Poznań), Poland
Structure and dynamics of thiourea pyridinium salt inclusion compounds

The short, **oral presentations** were given by:

- **B. Blicharska**
NMR relaxation in biopolymers
- **H. Harańczyk**
Water in organisms surviving extremely low temperature and deep dehydration
- **A. Nikiel**
Nuclear polarization of helium-3 at high pressure and high magnetic field for medical applications
- **G. Kaur,**
Understanding hyperfine interactions in GaAs: Towards realization of spintronics
- **M. Dvoyashkin,**
Self-diffusion of organic molecules on surfaces of nanoporous materials probed by PFG NMR method
- **M. Krutyeva,**
Exploring the surface permeability of nanoporous particles by pulsed field gradient NMR
- **S. Naumov,**
Adsorption hysteresis in mesoporous materials
- **F. El Hallak,**
High – frequency ESR and frequency domain magnetic resonance spectroscopic studies of single molecule magnets in frozen solution
- **Y. H. Sehleier-Kang,**
NMR studies of short and intermediate range ordering of amorphous Si-B-N-C ceramic at different pyrolysis temperature
- **H. Dyvorne,**
NMR and NQR with mixed sensor
- **P. Singh,**
The metal-nitrosyl interaction: recent insights from EPR and other methods into a classical coordination system

The students had the opportunity to present their results during 2 **poster sessions**.

The posters were evaluated by the members of “poster committee”: Prof. Elliot Burnell, Prof. De Lange Kees, Prof. Alex MacKay and Prof. Janez Stepišnik. Two main factors were taken into account: the merit content and the way it was

presented. The committee decided to award 3 students: Ms Anna Zawadzka from Warsaw University (first prize), Mr Marcus Donaldson and Mr Scott Burt from Berkely University. The winners were given small gifts.

Abstracts of lectures, oral presentation and posters were published as printed proceeding (**AMPERE NMR BOOK OF ABSTRACTS**) and some of the tutorial lectures and oral contributions are available on school's website (www.phys.amu.edu.pl/~school).

The social programme included "All together party", rafting along the Dunajec river, sightseeing tour to Zakopane, a bonfire with local customs attractions and organ concert given by one of the lecturers prof. Dieter Michel.

The School was a great success, that is reflected in a correspondence from participants, received after the event. The next edition of the School has already been planned for 2008 from 19nd to 28th June and will consist of two parts: tutorial intensive School with experimental section and basic NMR held in Poznań and advanced NMR with applications held in Wierzba.

Stefan Jurga

Report on the International Symposium and Summer School in St. Petersburg

**“Nuclear Magnetic Resonance in Condensed Matter” (NMRCM
2007)**

4th Meeting “NMR in Life Sciences”

Saint Petersburg University continues a series of annual International Symposium and Summer School in Saint Petersburg “Nuclear Magnetic Resonance in Condensed Matter”. The fourth meeting under the subtitle “NMR in Life Sciences” was opened on Monday, July 09, and was closed on Friday, July 13, 2007. The goal of the Meeting was 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 investigations in the area of life sciences. The Meeting was attended by 126 registered participants from 8 countries.

There were 14 lectures, presented by following speakers:

V. I. Chizhik (Saint Petersburg, Russia)

V.V. Chupin (Moscow, Russia)

S. V. Dvinskikh (Stockholm, Sweden)

K. Eguchi (JEOL, Japan)

I. Furo (Stockholm, Sweden)

A.V. Gribanov (Saint Petersburg, Russia)

H. Haranczyk (Cracow, Poland)

A.A. Khrapitchev (Oxford, United Kingdom)

V.V. Matveev (Saint Petersburg, Russia)

D. Michel (Leipzig, Germany)

Yu. M. Petrusevich (Moscow, Russia)

I. G. Shenderovich (Berlin, Germany)

T.N. Smekalova (Saint Petersburg, Russia)

V.V. Volkov (Moscow, Russia)

Moreover, there were 17 contributed talks (20') and 84 poster presentations. The organizers published the Book of Abstracts.

NMRCM 2007 took place at the Petrodvorets Campus of Saint Petersburg State University. Petrodvorets (a satellite-town of Saint Petersburg) is famous for its parks with fountains and palaces. The social program consisted of two excursions (in Pavlovsk and Saint Petersburg), a welcome-party, and a conference dinner.

The information on the NMRCM 2007 (including abstracts and photographs) is available at

<http://nmr.phys.spbu.ru/NMRCM-2007/>

The NMRCM 2007 was supported by

- Russian Foundation for Basic Research
- JEOL/Tokyo Boeki CIS
- Bruker-BioSpin

The 5th meeting of NMRCM will be organized as a satellite school of EUROMAR 2008 in July 04 – 05, 2008.



Organizers

Boreshkov Institute of Catalysis SB RAS, Novosibirsk, Russia

Academician • Valentin Parmon, Organizing Committee Chair

St. Petersburg State University, Russia

Academician • Ludmila Verbitskaya

St. Petersburg Scientific Center, Russia

Academician • Gennadii Tereschenko, St. Petersburg

St. Petersburg is one of the most beautiful cities in the world. It is often referred to as the Venice of the North, but its beauty is really a brand all its own. Lavish interiors of the grandiose and skyline-dominating cathedrals, marvellous palaces and squares, fascinating suburbs present a unique monument of the Russian architecture. In early July, during romantic White Nights the city offers dazzling views and a vibrant cultural life that is second to none.

Venue

The Congress will take place in the "Twelve Colleges Building" of the St. Petersburg State University and in the old residence of the St. Petersburg Scientific Center RAS. Both buildings are located in central historical part of the city on the bank of the Neva River. The impressive red-and-white "Twelve Colleges Building" stretches for over four hundred meters and in fact consists of 12 separate buildings standing side by side. The complex was built between 1722 and 1742 and was intended to house twelve Russian Government Bodies of the time. The building of Academy of Sciences is an example of late classicism and is an organic part of the magnificent University Embankment, also featuring the world-famous Winter Palace.

Key Dates

January 10, 2008: deadline for abstracts (oral and poster) submission
February 10, 2008: notification of acceptance
February 20, 2008: visa documents submission

Please visit <http://www.euromar2008.com/> for registration

Student grants

As a result of the generosity of the major sponsors, a number of EUROMAR grants for students covering part of the fee will be available from February 2007. A prospective grantee is required to present a poster. The form of Application is available on website. Participants applying for a EUROMAR grant should indicate why they need financial support. Travel grants will only be available in very exceptional cases.

There is no additional charge for those students who also participate in the NMRCM Summer School (July 4-5), the EUROMAR Organizing Committee covers the participation.

Grants for Russian Attendants

We are pleased to be able to offer half price registration to Russian attendants because of support of Russian Academy of Sciences. Grants will be provided for the representatives of RAS organizations and Universities only.

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Lyndon Emsley	Ecole Normale Supérieure, Lyon, France
Michael Hunger	University of Stuttgart, Stuttgart, Germany

Igor Koptyug	International Tomography Center SB RAS, Novosibirsk, Russia
Olga Lapina	Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
Malcolm Levitt	University of Southampton, Southampton, England
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Beat Meier	ETH Zurich, Switzerland
Thomas Prisner	Johann Wolfgang Goethe-Universität, Frankfurt, Germany
Hans Spiess	MPI für Polymerforschung, Mainz, Germany

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Terskikh V.V.	Steacie Institute for Molecular Sciences, NRC Canada, Ottawa, Ontario, Canada

Congress secretariat

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Prof. Marc Baldus	Department of NMR-based Structural Biology, MPI for Biophysical Chemistry, Germany
Prof. Jacques Fraissard	Université Pierre et MarieCurie and ESPCI, Paris, France
Prof. Lucio Frydman	Department of Chemical Physics Weizmann Institute of Science, Israel
Prof. Gunnar Jeschke	Dept. Chemistry, University of Konstanz, Germany
Prof. Wolfgang Lubitz	MPI for Bioinorganic Chemistry, Germany
Prof. Chris Pickard	School of Physics & Astronomy University of St Andrews North Haugh Scotland, UK
Prof. Alexander Pines at	Department of Chemistry, University of California Berkeley, USA
Prof. Klaas P. Pruessmann	Institute for Biomedical Engineering ETH Zurich, Switzerland
Prof. Daniel Rugar Rd.	IBM Almaden Research Center Mailstop, Harry USA
Prof. Hans Spiess	Dept. Polymer Spectroscopy, MPI for Polymer Research, Germany
Prof. Gerhard Wagner	Dept. of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, USA

Invited Lecture Speakers

Prof. Bernhard Blümich	Macromolecular Chemistry, RWTH Aachen University, Germany
Prof. Rafael P. Brüschweiler	National High Magnetic Field Laboratory (NHMFL), USA
Prof. Marina Carravetta	Department of Chemistry University of Southampton Highfield, Southampton, UK
Prof. Klaus-Peter Dinse	Darmstadt University of Technology Institute of Physical Chemistry III, Darmstadt, Germany
Prof. Lyndon Emsley	Department of Chemistry, Ecole Normale Supérieure de Lyon, France
Prof. Clare P. Grey	Chemistry Department, SUNY Stony Brook, USA
Prof. Brian M. Hoffman	Northwestern University, Evanston, USA
Prof. Wolfgang Jahnke	Central Technologies, Novartis Institutes for Biomedical Research, Basel, Switzerland
Prof. Christopher Jaroniec	Dept. of Chemistry, The Ohio State University Columbus, USA
Prof. Walter Köckenberger	Magnetic Resonance Centre School of Physics & Astronomy University of Nottingham, UK

Prof. Claudio Luchinat	Centro Risonanze Magnetiche – CERM University of Florence, Florence, Italy
Prof. Nikolai R. Skrynnikov	Department of Chemistry Purdue University West Lafayette, USA
Prof. Kay Saalwaechter	Institute of Physics - NMR Group, Martin-Luther-University Halle-Wittenberg, Halle, Germany
Prof. Kamil Ugurbil	Departments of Biochemistry, Radiology and Medicine, University of Minnesota, USA

Invited Speakers for the Euomar School

Prof. Alexander S. Arseniev	Institute of Bioorganic Chemistry, Moscow, Russia
Prof. Martin Billeter	Göteborg University, Göteborg, Sweden
Prof. Geoffrey Bodenhausen	CNRS, Ecole Normale Supérieure, Paris, France
Prof. Michael Hunger	University of Stuttgart, Stuttgart, Germany
Prof. Malcolm Levitt	University of Southampton, Southampton, England
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Prof. Victor V. Terskhih	Steeacie Institute for Molecular Sciences, NRC Canada, Ottawa, Ontario, Canada

AMPERE EVENTS

2008

AMPERE NMR School	Poznan/ Wierzba, (Poland)	June 19-28, 2008
EUROMAR Congress 2008	St. Petersburg, (Russia)	July 6-11, 2008
9th International Bologna Conference on Magnetic Resonance in Porous Media (MRPM9)	Boston, (USA)	July 13-17, 2008

2009

10th International Conference on Magnetic Resonance Microscopy	West Yellowstone, Montana, (USA)	August 30- September 3, 2009
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OTHER EVENTS

2008

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

2009

17th ISMRM Meeting	Honolulu, Hawai'i, (USA)	April 18-24, 2009
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2010

18th ISMRM Meeting	Stockholm, (Sweden)	May 1-7, 2010
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2011

19th ISMRM Meeting	Montréal, Québec, (Canada)	May 7-13, 2011
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Please send information about any meetings of interest to:

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