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BULLETIN DU GROUPEMENT

d'informations mutuelles

AMPERE

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

January – April 2003

No. 210

Secretariat and administration:

ETH Zürich

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

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Contents

Application form for AMPERE membership p. 2

AMPERE Society

Minutes of the Meeting of the AMPERE Bureau p. 3 - 6

Report on the State of the AMPERE Society p. 7 - 10

Financial Situation of the Groupement AMPERE p. 11

Minutes of the Meeting of the HOD Executive Committee, Paris p. 12 - 13

Report on the 6th International Conference on Magnetic Resonance
in Porous Media (MRPM6), Ulm p. 14 - 15

Zavoisky Award 2002 p. 16 - 18

Forthcoming AMPERE Events

AMPERE XI NMR School, Zakopane – List of Speakers p. 19 - 20

7th International Conference on Magnetic Resonance Microscopy p. 21 - 22

7th “Heidelberg” Conference, Snowbird, Utah

7th International Conference on Magnetic Resonance in Porous Media
MRPM 7, Palaiseau p. 23 - 24

Other MR Events

Upcoming Events 2002 – 2006 p. 25 - 27

Associate Members of the AMPERE Group:

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

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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 get membership, 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	
Initials	
Title	
Institute/ Department	
University/ Organisation	
Street	
ZIP Code before	
Town, ev. State	
ZIP Code after	
Country	
Telephone	
Telefax	
e-mail	

Date:.....

Signature:.....

One year membership fee Swiss Francs 35.--
Three years membership fee Swiss Francs 100.--

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Minutes of the Meeting of the AMPERE Bureau

Zürich, April 11, 2003

Members present:

H. W. Spiess (D), D. Goldfarb (IL), B. H. Meier (CH), J. Roos (CH), J-Y. Buzaré (F) (executive officers),

R. Blinc (SI) (honorary member),

J. Dolinsek (SI), R. Kimmich (D) (temporary members).

Excused:

D.C. Ailion (USA), J-P. Amoureux (F), G.J. Béné (CH), J. Blicharski (PL), St. Caldarelli (F), L. Emsley (F), A. Haase (D), St. Jurga (PL), M. Mehring (D), D. Michel (D), B. Maraviglia (I)

Agenda:

1. Approval of the minutes of the AMPERE Bureau meeting in Poznan, July 15, 2002.
2. Report on the state of the AMPERE Society (H.W. Spiess).
3. Financial Report (B.H. Meier).
4. Members of the AMPERE Committees (B.H. Meier).
5. The future organization of the European magnetic resonance community, proposal of the 2+2+2 committee (B.H. Meier).
6. Final reports past meetings (B.H. Meier)
 - AMPERE X NMR School, Zakopane (J. Blicharski)
 - AMPERE Summer School, Leipzig (D. Michel)
 - 31st Congress AMPERE, Poznan (St. Jurga)
 - 6th International Conference on Magnetic Resonance in Porous Media, Ulm (R. Kimmich)
7. Future meetings:
2003
 - AMPERE XI NMR School, Zakopane June 1-6 (J. Blicharski)
 - Specialized Colloque AMPERE 2003, Sept. 8-12 (J. Dolinsek)
Bernardin, Portoroz

- 17th HOD meeting, Calais Sept. 3-5 (J.Y. Buzaré)
- Alpine Conference on Solid-State NMR Sept. 14-18 (St. Caldarelli)
- 7th International Conference on Magnetic Sept. 21-26
Resonance Microscopy, Snowbird

2004

- AMPERE XII NMR School, Zakopane June 6-11
- 32nd Congress AMPERE, Lille (joined with
EENC)

2005

- AMPERE XIII NMR School, Zakopane June 5-10

2006

- 33rd Congress AMPERE - Proposals

8. Varia
9. Date of next meeting

At 2 p.m. H.W. Spiess welcomed all present members of the Bureau and opened the meeting. The agenda was approved unanimously.

- Ad. 1 The minutes of the AMPERE Bureau meeting in Poznan, July 15, 2002, published in the AMPERE Bulletin No. 207, were accepted unanimously.
- Ad. 2 H.W. Spiess gave notice of the passing away of Professor L. Van Gerven, who is well remembered as a very active member of the groupement. He reported about the 70th birthday celebrations of M. Goldman and also made mention of the 70th birthday of Prof. I. Ursu.
In his report, which is given in the appendix to these minutes, he further gave an overview of the last and present year's events. He also referred to new activities, such as the AMPERE school on solid-state NMR, planned by Prof. St. Caldarelli, and the envisaged school on EPR. He shortly summarized the main points of the proposal for a needed co-ordination of the various European NMR-activities, the topic discussed in item 5 of the agenda.
The report of the president was accepted unanimously.
- Ad. 3 B.H. Meier presented his written financial report, which is given in the appendix to these minutes. Despite of the unfavorable general economic situation in the past year he could present a stable fortune since last April. His report was approved unanimously.
- Ad. 4 The discussion about the role the AMPERE committee was mainly focused on the procedure of replacing non-active committee members and on the question of how to make the committee membership more attractive. As a general rule, retired (or mostly

non-active) committee members will be asked if they intend to continue or to suggest their possible successors.

For the next bureau meeting H.W. Spiess proposed to prepare a list with replacements keeping a reasonable balance in the representation of countries.

- Ad. 5 H.W. Spiess explained the details of an envisaged future organization of Europe's magnetic resonance community, which are summarized in his report (see appendix to this minutes). He described the various contacts and discussions which lead to the proposal for a European Co-ordination. He stressed that the corresponding efforts should be looked at in the sense of a *European initiative*. The groupement AMPERE would be foreseen as the "umbrella organization" and a standing committee could be established to run larger conferences such as recommended in item 7 of the proposal. The question remains open if there should be many subdivisions or just different "groups" running sequential conferences. Further comments by B.H. Meier, J. Dolinsek and R. Blinc concentrated on the timing and the structure of the larger conferences and on the future role of the Colloque AMPERE as a smaller thematically highly focussed event.

It was agreed that the discussion with the interested existing groupings of the magnetic resonance community should go on along the ideas formulated in the presidents' report. J. Dolinsek proposed to organize an informal bureau meeting about this topics at the Colloque in Portoroz.

- Ad. 6 B.H. Meier gave an overview on the available information. The report on the AMPERE Summer School in Leipzig by D. Michel has been published in the last bulletin and the report on the 31st Congress AMPERE in Poznan is in preparation.

R. Kimmich presented the main topics of his report on the 6th International Conference on Magnetic Resonance in Porous Media in Ulm. The report is given in the appendix to the minutes. He emphasized the plans of future developments in the relation with the Groupement AMPERE. He also provided advance information of the next conference (MRPM 7) to take place at the Ecole polytechnique in Palaiseau, July 4-8, 2004.

- Ad. 7 2003

B.H. Meier gave updated information on AMPERE XI NMR School.

J. Dolinsek presented the details of the scientific program of the Specialized Colloque AMPERE. His organizational work is progressing without problems. At the moment a decision about financial supports for participants is not possible.

J.Y. Buzaré presented updated information concerning the 17th HOD meeting in Calais which is contained in the minutes of the March meeting of the HOD Executive Committee (see appendix). He especially commented on the anticipated general trends in scientific topics that will be covered in future HOD meetings.

According to B.H. Meier the organization of the Alpine Conference on Solid-State NMR is running well. The number of registrations has already approached the limit of 200.

R. Kimmich informed on the 7th International Conference on Magnetic Resonance Microscopy organized by D. Ailion, whose report is given in the appendix to the

minutes. B.H. Meier remarked that at this conference students who are AMPERE members will profit from an extra discount in addition to the normal student discount.
2004

B. H. Meier presented the list of members in the scientific and organizing committees of the 32nd Congress AMPERE in Lille, as well as the preliminary program of plenary talks and sessions. Updated information should shortly be available on the WEB through the AMPERE website. H.W. Spiess suggested to obtain the latest version of the program in order to give input concerning further topics/fields and invited talks.

2005

B.H. Meier mentioned that the AMPERE XIII NMR School in Zakopane, will be the last in the long series of excellent NMR schools organized by J. Blicharski. A follow up of a similar school in the eastern part of Europe has to be found.

Concerning the Colloque AMPERE H.W. Spiess asked for proposals, which preferably should be scheduled before or as part of the foreseen EENC/AMPERE Conference in Veldhoven. A Colloque on EPR topics organized in The Netherlands would be highly appreciated. B.H. Meier welcomes also other Colloques for 2005.

2006

B.H. Meier reported that the tentative planned 33rd Congress AMPERE in Denmark is in collision with another important event with similar forums (ICMRBS). Discussions about a joint Congress with the NMRDG have been initiated in York (organiser Duncan Farront) and the proposal is unanimously supported. A more detailed proposal from NMRDG will be requested.

Ad. 9 The next meeting of the AMPERE Bureau in Zurich will be on Friday, April 2, 2004.

At 5 p.m. H.W. Spiess closed the meeting and thanked all participants.

sig. J. Roos

Groupement AMPERE

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Report on the State of the Groupement AMPERE

Zürich, April 11, 2003

Following the 31st Congress AMPERE in Poznan which marked the 50th anniversary of our Society the activity of the Groupement AMPERE during the last months on one hand concerned the planning of the events 2003 and the following years. On the other hand, following the discussion in the different bodies of our Society in Poznan, Professor Beat Meier and I explored ways to better coordinate the activities in Magnetic Resonance in Europe. This report will emphasise the latter issue as it is, in my view, of particular importance for the future of our Society.

On the personal side, we had the pleasure to participate in a Symposium celebrating the 70th birthday of Professor *Maurice Goldman* in Paris, and it gives me pleasure to thank him here again for his long standing support of the Groupement AMPERE. Professor *Ioan Ursu*, who organized the Congress AMPERE in Bucharest 1970 and the Specialized Colloque on NMR-MR and Quantum Electronics there in 1985, became 75 this year. He was honoured by a Symposium in early April. Special thanks go to him as a key figure assuring contact between people in magnetic resonance across the iron curtain. Professor *Lieven Van Gerven*, who chaired the Colloque AMPERE in Louvain in 1964 and was a very active and supportive member of the

AMPERE committee, passed away at the end of November 2002 at the age of 74 and we highly acknowledge his contribution to the development of our Society.

European Co-ordination

The activities of a better co-ordination of the organisations active on **Magnetic Resonance in Europe** are well underway. A committee formed by representatives from the Groupement AMPERE (H. W. Spiess, B. H. Meier) and the EENC-committee (J. Stepisnik, S. Caldarelli) soon agreed that it would be helpful to include representatives of the British NMR Discussion Group (D. Neuhaus, R. D. Farrant), as it also runs an internationally recognized meeting with a considerable tradition. The discussion revealed complete agreement on the following needs and proposed framework of action:

1. There is an urgent need for a strong European MR-meeting, covering:
 - The full range of techniques: liquid state NMR, solid state NMR, EPR, imaging and MR-related phenomena on the one hand and
 - The full scope of fields to which MR contributes: Physics, Chemistry, Biology, Materials, Medicine on the other.
2. The three groups presently acting on a European level with full international scope:
AMPERE, EENC, NMRDG
should **combine** efforts to realize this goal.
3. Each time the conference should cover the areas listed above, but also define focal topics both with respect to techniques and fields, that are emphasized.
4. At the earliest stage, preferably as of 2005, the new conference should carry its own new name, e.g.

EUROMR

AMPERE – EENC – NMRDG

The representatives of the three groups will now seek approval of this framework from their respective bodies and then meet again to work out a more detailed proposal to be presented for approval in 2004.

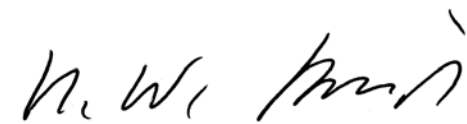
5. In order to achieve high quality for the conference on a truly international and interdisciplinary level, **continuity** must be assured both in science and in organization by setting up a committee running the conference on a **yearly** basis, yet in different countries.
6. The Groupement AMPERE should act as an ‘umbrella organisation’ to host the new conference, because it has the largest portfolio with respect to techniques, fields of science and events amongst which the European MR meeting would be the most important. Moreover, it has a well-defined status and infrastructure.
7. For the years 2004 – 2006 we have specific recommendations for such a conference:
 - 2004: AMPERE/EENC Conference, Lille, France, (Jean-Pierre Amoureux, Daniel Canet)
 - 2005: EENC/AMPERE Veldhoven, NL (Nico Van Nuland, M.J.A. De Bie)
 - 2006: NMRDG/AMPERE, York, UK (Chair: Duncan Farrant, local organizer: Simon Duckett)

This proposal was discussed at length at the Bureau-meeting in Zürich, April 11th, 2003 see also the Minutes below. It became clear that this initiative will have important consequences for our Society, but there was clear support for the President and the Secretary General to go ahead, as the initiative opens many future-oriented possibilities. Hosting a major meeting each year should be explored and, once its success is established the statutes of the Groupement AMPERE could be adjusted. The Groupement AMPERE should make sure that physics, EPR, new magnetic resonance techniques and applications are properly represented in EUROMR. Moreover, expansion to fields not yet included, such as engineering should be explored. Last, but not least, our Society should keep its flexibility, which was one of the major reasons for its success in the past.

I would like to thank the Bureau for its support, because I strongly feel the Groupement AMPERE will benefit substantially from this endeavour. It will be mandatory in order attract young people from different fields, from all over Europe and beyond. But the combined efforts can only be successful, if each of the groups is open to changes. In fact, I'm convinced that failure to play an active role in these efforts would endanger our Society as important activities of Magnetic Resonance in Europe would then happen outside the Groupement AMPERE. Therefore, I ask the members of the Groupement AMPERE to strongly support our initiative. Specifically, plan to come to the joint AMPERE/EENC Conference 2004 in Lille and make it the starting point for our renewal.

AMPERE Events

The list of AMPERE events is readily available on our homepage <http://www.ampere.ethz.ch>. The 31st Congress AMPERE last fall was flanked by a Summer School in Leipzig, and the 6th International Conference on Magnetic Resonance in Porous Media in Ulm. This year several events are planned: the Specialized Colloque in Portoroz, honouring our former President Robert Blinc, the 3rd Alpine Conference on Solid State NMR, the AMPERE XI School in Zakopane, the 7th International Conference on Magnetic Resonance Microscopy in Snowbird and the 17th HOD meeting in Calais. I'm particularly pleased that Professor Stefano Caldarelli took the initiative to start a new AMPERE school on solid-state NMR addressing beginners in the field. This list of events shows that the Groupement has an important role in fostering our field and I don't want to miss this opportunity to thank all organisers for the work they put into preparing these events. Moreover, I would ask all of you to make proposals for the future, as the Groupement AMPERE can only prosper if you take an active role in its activities.



Hans Wolfgang Spiess

Zürich, April 11th, 2003

Financial Situation of the Groupement AMPERE

Fortune of the Society per April 1, 2003

Bank Savings Account		CHF	35'609.60	
Bank Current Account CS			3'436.80	
Bank Current Account ZKB			3'287.25	
Bank Savings Account SMR			3'311.85	
360 CS Portfolio Income Account			37'544.40	
<hr/>				
Total Savings		CHF	83'189.90	
Unpaid Fees 2001	26 x 35.--	+	910.--	
Unpaid Fees 2002	56 x 35.--	+	1'960.--	
<hr/>				
Total unpaid Fees		+	2'870.--	
Prepaid Fees 2004	24 x 35.--	-	840.--	
<hr/>				
Effective Fortune April 1, 2003		CHF	85'219.90	

Effective Fortune April 1, 2002: CHF 85'228.65

sig. B.H. Meier

HERTZIAN OPTICS , DIELECTRICS (HOD) DIVISION OF THE GROUPEMENT AMPERE

Minutes of the Meeting of the HOD Executive Committee

PARIS, MARCH 22nd 2003

Members present : G. Alquié, H. Baudrand, J. Billard, J.-Y. Buzaré, J.-C. Carru, J. Chandezon, J. Chilo, J.-P. Daniel, A. Dégardin, R. Petit, O. Picon, Y. Servant, J.-G. Théobald.

Excused : G. Raoult, C. Corvaja

Agenda :

1. Approval of the minutes of HOD bureau meeting in Paris, March 23rd , 2002
2. Election of a new member of the HOD Committee
3. Preparation of the 17th HOD Colloque, Calais, September 3-5th 2003.
4. Future meetings.
5. Varia including the date of the next HOD Bureau meeting.

At 9 : 45 H. Baudrand opened the meeting, welcomed all the present members.

Ad 1) The minutes of the previous meeting of the HOD executive Committee in Paris on March 23 2002 were approved unanimously.

Ad 2) One new member of the HOD executive committee was elected by secret ballot. Namely : Prof Odile PICON who joined the meeting after her election.

Ad 3) As the head of the local Organizing Committee of the next HOD Colloque to be held in Calais, on September 3-5th 2003, J.C. Carru received 107 abstracts. They were examined so as to determine whether they should be oral or poster presentations. The oral presentations will be held in two parallel sessions. The poster session will take place on Thursday, September 4th afternoon. Finally, 71 of these abstracts were accepted for oral presentation and 36 for poster. They were sorted in the following topics :

	Oral	Poster	total
Electromagnetic waves	24	12	36
Hertzian optics and spectroscopy, E.P.R., Dielectrics	21	12	33
Material and devices for microwave and optic communications	26	12	38

The list of the 5 invited talks and speakers was also definitely established :

- Generation of Terahertz by G. Mouret (Dunkerque)
- Metamaterials : applications in microwaves and optics by D. Lippens (Lille)
- Photonic crystals by D. Felbacq (Montpellier)
- Electromagnetic modeling and fractals by H. Aubert (Toulouse)
- Electromagnetic wave dosimetry by V. Vigneras (Bordeaux).

Authors will be asked to write the final text of their contribution (up to four pages for a contributed oral or poster paper and up to eight for an invited paper) before June 30th , 2003. These final texts will be gathered to form a volume of Proceedings which will be distributed to the participants at the beginning of the Colloque.

The information concerning the Colloque, the final registration form, the amount of the registration fees and the social program can be found on the web site : <http://www.ohd2003.fr.st>.

Ad 4) The location of the 18th meeting to be organized in 2005 has not yet been decided between Tunis and Granada (Spain) but the final decision has be taken on September in Calais.

Ad 5) The next meeting of the HOD executive Committee will take place in Calais during and after the dinner of the first day of the 17th HOD Colloque On September 3rd , 2003 at 20 : 00.

H. Baudrand thanked all the present members and closed the meeting at 1:15 p.m.

J.Y. Buzaré

Report on the 6th International Conference on Magnetic Resonance in Porous Media (MRPM6)

September 8 – 12, 2002, Ulm, Germany

Scope: After Bologna (1990), Canterbury (1993), Louvain (1995), Trondheim (1997), Bologna (2000), this was the sixth event in a series of outstanding gatherings of experts in a field of growing scientific and technological interest. Magnetic Resonance provides the basis of numerous innovative techniques for probing structure, molecular dynamics, and transport in porous media. Pore space confinements and interactions with pore wall surfaces give rise to a rich variety of phenomena that are anomalous from the experimental as well as theoretical point of view. Porous materials are ubiquitous in nature, technology, and everyday life. Rocks, foams, wood, ceramics, porous glass, bone, bricks, cement, skin, fabrics, membranes, fineparticle agglomerates, paper, foodstuff, tissue, bead packs, sponges, aerogels, filters, lung, polymers, pharmaproducts, leather, sediment formations, granular beds, and many more other natural and technical products form a system class of its own. The conference is devoted to the progress of our understanding of such media with regard to physics, chemistry, engineering, and life sciences.

Current Scientific Advisory Committee: Jerzy Blicharski (PL), Bernhard Blümich (D), Richard Bowtell (GB), Robert J. S. Brown (USA), Paul Callaghan (NZ), Paola Fantazzini (I), Eiichi Fukushima (USA), Lynn Gladden (GB; new), John Gore (USA), Laurie Hall (GB), Martin Hürlimann (USA; new), Jörg Kärger (D), Rainer Kimmich (D), Igor Koptuyug (RU; new), Jean-Pierre Korb (F), Peter McDonald (GB), Sir Peter Mansfield (GB), Bruno Maraviglia (I), Ken Packer (GB), Pabitra Sen (USA), John Strange (GB), Hans Thomann (USA), Rustem Valiullin (RU; new), Marija Vilfan (SI). (**Professor Giulio Cesare Borgia** from Bologna who originally initiated this conference series suddenly and sadly passed away a few days after the Ulm meeting.)

Invited Speakers: Bernhard Blümich, Paul Callaghan, Paola Fantazzini, Eiichi Fukushima, Lynn Gladden, Genéviève Guillot, Song-I Han (representing Alex Pines), Manfred Holz, Jörg Kärger, Jean-Pierre Korb, Pierre Levitz, Peter McDonald, Ken Packer, Edward Parsons (representing John Gore), Pabitra Sen, Yi-Quao Song, Frank Stallmach, Siegfried Stapf, John Strange, Marija Vilfan.

Program: The program went on for four and a half days including a half-day excursion to Lake Constance. There were 21 invited lectures (20' or 30'), 23 contributed talks (20'), 30 oral poster introductions (5'), 98 poster presentations. The conference was attended by 172 registered participants from 25 countries.

Venue and Support: Apart from several external social activities, the program took place in the main building of the University of Ulm. The conference was generously sponsored by the Deutsche Forschungsgemeinschaft, the University of Ulm, Schlumberger-Doll, Bruker, STELAR, and Varian. This enabled us to provide free meals and all other social activities

throughout the conference with below average registration fees. Apart from a general grant, the Deutsche Forschungsgemeinschaft also provided travel grants for 14 East-European delegates.

Future Developments: The Scientific Advisory Committee met during the conference and agreed that the next meeting of this series, MRPM7, is to take place at the École Polytechnique in Palaiseau near Paris from July 4 – 8, 2004. It will be chaired by Jean-Pierre Korb. In view of the stability and the growing, worldwide response this conference series meets, it was also agreed that an organizational and sustainable basis of our community should be established. A steering group was formed with the objective to draw up by-laws similar to those of the Division of Spatially Resolved Magnetic Resonance with the Groupement Ampère as an umbrella society. The Scientific Advisory Committee will meet next and decide in this matter at the occasion of the MRPM7 conference in Palaiseau, 2004.

Ulm, April 10, 2003

Rainer Kimmich
(Conference Chairman)

Oxford University Press would like to announce the publication of

Ray Freeman's Magnetic Resonance in Chemistry and Medicine

This is the first unified treatment of **Nuclear Magnetic Resonance (NMR) in chemistry and Magnetic Resonance Imaging (MRI)** in medicine, written for a broad non-specialist readership by one of the world's foremost NMR spectroscopists.

List Price: Hardback, 0-19-926061-3, £70.00 and Paperback, 0-19-926225-X, £32.50. **Available to AMPERE members at a preferential 20% discount, £56.00 and £26.00 respectively.** For more details please go to

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The Annual Zavoisky Award

The 2002 Zavoisky Award in Electron Paramagnetic Resonance Spectroscopy was awarded to

Professor **Wolfgang Lubitz**
Germany

in a ceremony marking his outstanding contribution to multifrequency EPR spectroscopy in bacterial and plant photosynthesis.

The ceremony was preceded by the Twelfth Annual Workshop: "Modern Development of Magnetic Resonance", 2-4 October 2002. The program of the Workshop was as follows:

- V. E. Kataev (Kazan Physical-Technical Institute, Kazan, Russia) Magnetic resonance in low-dimensional copper oxides
- W. Lubitz (MPI for Radiation Chemistry, Muelheim an der Ruhr, Germany) High-Field EPR and ENDOR Studies of Dinuclear Exchange Coupled Metal Centers in Proteins and Related Model Systems
- M. V. Eremin (Kazan State University, Kazan, Russia) Divergence of the dynamic charge susceptibility in layered cuprates as a precursor of a phase transition into the sliding orbital current state
- A.A. Konovalov, V. F. Tarasov, (Kazan Physical-Technical Institute, Kazan, Russia) Submillimeter EPR spectroscopy of Ho³⁺ ions in synthetic forsterite
- A.N. Garroway (US Naval Research Laboratory, Washington, USA) Free induction decays and spin echoes in three-frequency NQR: Theoretical and practical aspects
- A.R. Kessel, N. M. Jakovleva (Kazan Physical-Technical Institute, Kazan, Russia) Schemes of implementation in NMR of the quantum search algorithm in virtual spin representation
- E. B. Feldman (Institute of Problems of Chemical Physics, Chernogolovka, Russia) Multiple-quantum NMR dynamics in one-dimensional systems in solids: Theory and computer simulations
- V. A. Ulanov, M. M. Zaripov, E. P. Zheglov, E. R. Zhiteitsev (Kazan Physical-Technical Institute, Kazan, Russia) Copper impurity clusters in calcium fluoride crystals: results of EPR study
- B. Corvaja (University of Padova, Padova, Italy) TR-EPR study of the interaction between photoexcited azulene and nitroxyl radical linked to a peptide template
- O. A. Vasina, O. I. Gnezdilov, M. P. Tseitlin, A. A. Obynochny (Kazan Physical-Technical Institute, Kazan, Russia) "Spin and molecular dynamics in course of photochemical processes. Study by EPR
- Yu. I. Talanov (Kazan Physical-Technical Institute, Kazan, Russia), H. Adrian, M. Basset, G. Jakob (Johannes Gutenberg-Universität, Institut für Physik, Mainz, Germany) G. Wirth (Gesellschaft für Schwerionenforschung, Darmstadt, Germany) Nonresonant microwave absorption study of the surface barrier in ion irradiated superconductors

- M. Andruh (University of Bucharest, Bucharest, Romania) Oligomeric complexes as building blocks in designing supramolecular multimetallic systems with interesting magnetic properties
- M. I. Ibragimova, V. Yu. Petukhov, E. P. Zheglov, G. V. Konjukhov, A. A. Obynochny (Kazan Physical-Technical Institute, Kazan, Russia) Investigation of radiotoxin action on blood by magnetic radiospectroscopy

In the afternoon of October 2, a reception of Professor W. Lubitz by the Prime-Minister of the Republic of Tatarstan R.N. Minnikhanov took place.

The Zavoisky Award was presented October 4, 2002 in Kazan, the capital city of the Republic of Tatarstan. It was there that academician E. K. Zavoisky discovered EPR in 1944. The Zavoisky Award consists of a Diploma, a Medal and one thousand US dollars.

The Zavoisky Award was established by the Zavoisky Physical-Technical Institute of the Russian Academy of Sciences with support from the Kazan State University, the Springer-Verlag Publishing House, the Republic of Tatarstan, the Tatarstan Academy of Sciences, the AMPERE Society and the International EPR Society. The Award Selection Committee consisted of well-known experts in EPR: Professors B. Bleaney (Oxford), G. Feher (La Jolla), K. Moebius (Berlin), A. Schweiger (Zurich), Yu. D. Tsvetkov (Novosibirsk), and the Chairman K. M. Salikhov (Kazan). The selection of the Awardee was made after consultations with the Advisory Award Committee which comprises: C. A. Hutchison Jr. (Chicago), and Yu. N. Molin (Novosibirsk).

Previous winners of the Zavoisky Award were: W. B. Mims (1991), B. Bleaney (1992), A. Schweiger (1993), J. R. Norris, and Ya. S. Lebedev and K. Möbius (1994), J. S. Hyde (1995), G. Feher (1996), K. A. Valiev (1997), J.H. Freed (1998), J.H. van der Waals (1999), H.M. McConnell and Bruker Analytik GmbH (2000), and K.A. McLauchlan (2001).

The selection of Professor Wolfgang Lubitz was made from many nominations solicited from international experts in EPR.

The Award Ceremony starting in the afternoon of October 4 was attended by over 200 people, among them were the scientists who had participated in the preceding Workshop.

The ceremony was chaired by Professor K. M. Salikhov. He, as the Chairman of the Award Committee, announced the decision of the Zavoisky Award Committee. The presentation was made by the Deputy Prime-Minister of the Republic of Tatarstan Z. R. Valeeva. She read the letter of congratulations from M.Sh. Shaimiev, President of the Republic of Tatarstan. The Rector of the Kazan State University, Professor M. Kh. Salakhov, the Chairman of the Presidium of the Kazan Scientific Center of the Russian Academy of Sciences, Professor A. I. Konovalov, and the Principal Scientific Secretary of the Tatarstan Academy of Sciences, Professor I. B. Khaibullin warmly congratulated the laureate. Letters of congratulations from Professor H.W. Spiess, President of the AMPERE Society, Professor J. R. Pilbrow, President of the International EPR Society, and Professor M. Mehring, President of ISMAR, were handed to Professor Wolfgang Lubitz.

W. Lubitz gave his Zavoisky Award lecture in which he discussed problems of multifrequency EPR spectroscopy in photosynthesis. A concert by a string quartet preceded and followed the ceremony. After a meeting with journalists, the guests visited the museum of history of the Kazan State University. The event was concluded with a Banquet in honor of Professor W. Lubitz and his outstanding contributions to EPR. During a stay in Kazan the laureate and his spouse visited the places of historical and cultural interest in Kazan, and picturesque sites in the town Elabuga.

The Organizing Committee owes special thanks to the Ministry of Industry, Science and Technology of the Russian Federation, the Russian Fund for Basic Research and the NIOKR Fund of the Republic of Tatarstan.

AMPERE XI NMR School, Zakopane (Poland)

June 1- 6, 2003.

List of speakers and lectures:

Elena G. Bagryanskaya (Novosibirsk, Russia)

"NMR and TR CIDNP Investigations of Short-lived Intermediates in Chemical Reactions"

Bruce J. Balcom (Fredericton, Canada)

"Pure Phase Encode MRI of Materials"

Peter A. Bandettini (Bethesda, USA)

"Magnetic Resonance Imaging of Human Brain Function: Methods, Issues, and Opportunities"

Peter Bluemler (Mainz, Germany)

"MRI with Hyperpolarized ^3He and ^{129}Xe "

Jerzy Bodurka (Bethesda, USA)

"A Scaleable Multi-Channel MR Receiver for Parallel Imaging. Development and Applications for BOLD Imaging at 3 Tesla"

Ferdinando Borsa (Pavia, Italy)

"NMR and Relaxation in Single Molecule Magnets"

Richard W. Bowtell (Nottingham, UK)

"Gradient Coils for MRI"

Gerd Buntkowsky (Berlin, Germany)

"Structural Studies of Bioorganic Molecules with Solid State NMR"

Elliott Burnell (Vancouver, Canada)

"NMR Relaxation and Diffusion in a Non-ionic Lyotropic Liquid Crystal"

Daniel Canet (Nancy, France)

" $T_{1\rho}$ Measurements with Weak Spin-locking Fields in the Presence of Homonuclear Dipolar Couplings"

Donatella Capitani (Rome, Italy)

"NMR Study of Gel Systems"

Narayanan Chandrakumar (Madras, India)

"Spin Dynamics of Cross Polarization in Solution State"

Franz Fujara (Darmstadt, Germany)

"Dynamic Processes in Superionic Conductors: Diffusion, Conductivity, Relaxation"

Jean Grandjean (Liege, Belgium)

"Structure and Dynamics of Modified Clays and Polymer/Clay Nanocomposites"

Farida Grinberg (Ulm, Germany)

"Diffusion on Uneven Surfaces in NMR Experiments and Computer Simulations"

Adam Gryff-Keller (Warsaw, Poland)

"NMR Studies on Creatinine"

Rainer Kimmich (Ulm, Germany) - 2 lectures:

"Polymer Chain Dynamics and how it Manifests Itself in NMR Experiments",

"Visualization of Hydro-, Electro-, and Thermodynamic Transport. NMR Imaging Experiments with Porous Media"

Jozef Kowalewski (Stockholm, Sweden)

"Small Molecules and Carbon-13 Relaxation outside of Extreme Narrowing"

Danuta Kruk (Cracow, Poland)

"Nuclear Spin Relaxation in the Presence of Diffusion and Intermolecular Interactions"

Zdzislaw T. Lalowicz (Cracow, Poland)

"Lonely Deuteron as Spectator of NH_3D^+ Ions Mobility"

Cornelius A. de Lange (Amsterdam, Netherlands)

"The Prediction of Solute Orientational Order in Uniaxial Liquid Crystals from Molecular Shape"

Alex MacKay (Vancouver, Canada)

"NMR and MRI of Brain"

Dieter Michel (Leipzig, Germany)

"Proton Conductivity as Studied by 2D Exchange NMR"

Nicolaus Nestle (Munich, Germany)

"MRI as an Innovative Tool for Studying Subsurface Transport Processes in Environmental Science"

Ingo Schnell (Mainz, Germany)

"Probing Local Molecular Structure and Dynamics by Sideband Patterns in Multidimensional NMR under Fast MAS"

Jiri Spevacek (Prague, Czech Republic)

" ^1H NMR Study of Thermotropic Phase Transition in Aqueous Polymer Solutions and Gels"

Janez Stepisnik (Ljubljana, Slovenia)

"Spectra of Flow and Diffusion Motion by NMR Spin Echo"

Genowefa Slosarek (Poznan, Poland)

"The Phenomenon of Echo in Molecular Spectroscopy"

Jadwiga Tritt-Goc (Poznan, Poland)

"NMR and MRI Study of Selected Hydrophilic Polymers"

Hans-Martin Vieth (Berlin, Germany)

"Light-Induced Dynamic Nuclear Polarization at Variable Magnetic Field"

Marija Vilfan (Ljubljana, Slovenia)

"Spin Relaxation of Mesogenic Fluids"

Iwona Wawer (Warsaw, Poland)

"Multinuclear MAS NMR of Brain Tumors"

Lawrence G. Werbelow (Socorro, USA)

"Adiabatic-Free Spin Relaxation"

Per-Olof Westlund (Umeå, Sweden)

"Heavy Water NMR Relaxation, a Tool to Study Water Order and Dynamics at Lipid Bilayer Interfaces"

Moreover there will be two poster sessions and two short oral communications presented by winners of these sessions.

Jerzy S. Blicharski
Chairman

7th International Conference on Magnetic Resonance Microscopy 7th “Heidelberg” Conference

September 21-26, 2003

[CALL FOR PAPERS](#)

The 7th International Conference on Magnetic Resonance Microscopy will be held at Snowbird, Utah from Sept. 21 -26, 2003, and will be preceded by an [Educational Program](#) on Sept. 20-21. The Chair is David C. Ailion and the Co-Chair is Robert E. Botto. The official [email address](#) for the conference is nmr@physics.utah.edu. You can address any questions to this email address. Please check this web site from time to time for further information about the Conference.

Important Dates

June 1, 2003: Abstract deadline.*

July 1, 2003: Target date for notification of acceptance/rejection of abstracts.*

July 21, 2003: Registration deadline.

July 21, 2003: Hotel reservation deadline.

*These deadlines were extended on May 15, 2003.

Executive Steering Committee

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Brian Saam, Department of Physics, University of Utah

Robert Wind, Pacific Northwest National Laboratory (PNNL)

Educational Program (Sept. 20-21)

Information on the Educational Program will be available shortly.

Principal invited speakers who have accepted:

Educational Program	Keynote Speaker: Alexander Pines	General Meeting	Non-Clinical Functional MR Session
Bernhard Bluemich		Robert Blinc	Jeff Dunn
Paul Callaghan		Bernhard Bluemich	Jerry Glickson
Mark Conradi		Paul Callaghan	Periann Kuppusamy
Axel Haase		Tomoyuki Haishi	Hal Swartz
Joe Seymour		R. Mark Henkelman	Robert Weisskoff
Steven Wright		Edward Hsu	
Yang Xia		Russel Jacobs	
		G. Allan Johnson	
		Gil Navon	
		Charles Pennington	
		Koji Saito	
		Steve Sinton	
		Yi-Qiao Song	
		Bryan Suits	
		Robert Wind	

Lodging Information

Please note: We are currently finalizing arrangements for participants to make lodging reservations. These should be completed shortly. We ask your patience in not yet attempting to make such reservations at Snowbird until we give the go-ahead. The accommodations will be at the Cliff Lodge and the Lodge at Snowbird at attractive rates. Snowbird Resort is located at an elevation of 8000 feet (2450 meters) above sea level. General information about the resort is available at the [Snowbird website](http://www.snowbird.com) (www.snowbird.com).

Room Rates:

Cliff Lodge Bedrooms \$109.00*

Lodge at Snowbird Studio Lofts \$90.00*

* plus hotel sales tax which is currently 10.1%

Please be advised that priority will be given to students for the studio lofts (accommodating up to 5 people).

MRPM 7



Scientific advisory committee

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7th International Conference on
Magnetic Resonance in Porous Media

July 4-8, 2004

Ecole polytechnique, Palaiseau (20' from Paris), France

www.collegepolytechnique.com/MRPM7.htm

**7th International Conference on
MAGNETIC RESONANCE IN POROUS MEDIA
July 4-8, 2004
Ecole polytechnique, Palaiseau, France**

SCOPE

After Bologna (1990), Canterbury (1993), Louvain (1995), Trondheim (1997), Bologna (2000), Ulm (2002), this will be the 7th event in a series of outstanding gatherings of experts in a field of growing interest. Magnetic Resonance provides the basis of numerous innovative techniques for probing structure, molecular dynamics, and transport in porous media. Pore space confinements and interactions with pore wall surfaces give rise to a rich variety of phenomena that are anomalous from the experimental as well as theoretical point of view. Porous materials are ubiquitous in nature, technology and every day life. Rocks, foams, wood, paper, ceramics, porous glass, bone, bricks, cement, concrete, skin, fabrics, membranes, fineparticle agglomerates, foodstuff, tissue, bead packs, zeolites, soil, gels, sponges, aerogels, filters, lung, polymers, pharmacoproducs, leather, sediment formations, granular beds, and many more other natural and technical products form a system class of its own. The conference is devoted to the progress of our understanding of such media with regard to Physics, Chemistry, Engineering and Life.

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INFORMATIONS

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Useful Information (registration and accommodation) :
Web site: www.collegepolytechnique.com/MRPM7.htm
Email : info@collegepolytechnique.com
Tel: 33 1 55 80 50 50
Fax: 33 1 55 80 50 69

Future Conferences

AMPERE EVENTS

2003

AMPERE XI NMRSchool	Zakopane (Poland)	June 1-6, 2003
EPR and NMR at High Field: Applications to Magnetic System and Superconductors	Pisa (Italy)	July 23-25, 2003
International Conference on Magnetism (ICM)	Roma (Italy)	July 27 - August 1, 2003
Specialized Colloque AMPERE 2003 - NMR and EPR of Broad-Line Solids	Bernardin, Portoroz (Slovenia)	September 8-12, 2003
3rd Alpine Conference on Solid-State NMR	Chamonix (France)	September 14-18, 2003
7th International Conference on Magnetic Resonance Microscopy	Snowbird, Utah (USA)	September 20-26, 2003
17th HOD meeting	Callais (France)	September, 2003

2004

AMPERE XII NMR School	Zakopane (Poland)	June 6-11, 2004
7th International Conference on Magnetic Resonance in Porous Media	Palaiseau (20' from Paris) (France)	July 4-8, 2004
32nd Congress AMPERE	Lille (France)	September 6-11, 2004

2005

AMPERE XIII NMR School	Zakopane (Poland)	June 5-10, 2005
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OTHER EVENTS

2003

25th Finnish NMR Symposium For information please contact Hannu Maaheimo	Vuosaari / Helsinki, (Finland)	June 5-7, 2003
Gordon Conference on Magnetic Resonance	Salve Regina University, Newport, Rhode Island (USA)	June 15-20, 2003

Summer school Biomolecular Structure and Dynamics, Advances in NMR and Computational Methods	Novo Mesto (Slovenia)	June 22-29, 2003
16th International RSC Meeting on NMR Spectroscopy	Cambridge (U.K.)	June 29- July 3, 2003
2nd International Conference on Biomedical Spectroscopy	London (U.K.)	July 5-8, 2003
12th Meeting of the ISMRM, Section for Magnetic Resonance Technologists	Toronto, Ontario, (Canada)	July 9-11, 2003
11th ISMRM Meeting	Toronto, Ontario, (Canada)	July 10-16, 2003
45th Rocky Mountain Conference on Analytical Chemistry	Denver, Colorado (USA)	July 27-31, 2003
14 th Annual Workshop on Advanced Topics in Solid State NMR	Estes Park and Fort Collins, Colorado (USA)	August 1-2, 2003
NMR in Molecular Biology EuroConference on Structural Genomics: From Gene to Structure as viewed by NMR	Obernai / Strasbourg, (France)	September 5-10, 2003
European Society for Magnetic Resonance in Medicine and Biology 20th ESMRMB Meeting	Rotterdam (The Netherlands)	September 18-21, 2003
5th meeting of the European Federation of EPR groups (EFEPR)	Lisbon (Portugal)	September 7-11, 2003
SMASH 2003 (Small Molecules Are Still Hot)	Verona (Italy)	September 14-17, 2003
2nd Portuguese-Brazilian NMR Conference	Sintra (Portugal)	September 23-26, 2003
25th GDCh Discussion Meeting on MR Spectroscopy	Leipzig, Germany	Sept. 30 - Oct. 2, 2003
The 30th Annual Conference of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS)	Ft. Lauderdale, Florida (USA)	October 19-23, 2003
42nd Eastern Analytical Symposium (EAS)	Somerset, New Jersey (USA)	November 17-20, 2003
42nd NMR Symposium in Japan	Osaka University, Suita, Osaka, (Japan)	November 26-28, 2003

2004

Gordon Research Conference Computational Aspects - Biomolecular NMR	Ventura, California, (USA)	January 18-23, 2003
45th ENC	Asilomar, Pacific Grove, California, (USA)	April 18-23, 2003
12th ISMRM Meeting	Kyoto, (Japan)	May 15-21, 2004
The 31st Annual Conference of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS)	Oregon (USA)	October 3-7, 2004
43rd Eastern Analytical Symposium (EAS)	Somerset, New Jersey (USA)	November 8-12, 2004

2005

21st ICMRBS	Hyderabad (India)	January 16-21, 2005
46th ENC	Providence, Rhode Island, (USA)	April 10-15, 2003
13th ISMRM Meeting	Miami Beach, Florida (USA)	May 7-13, 2005

2006

14th ISMRM Meeting	Seattle, Washington (USA)	May 6-12, 2006
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