

Vol. 50, No. 3/4

ISSN 0432-7136

BULLETIN DU GROUPEMENT

d'informations mutuelles

AMPERE

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

September – December 2001

No. 204/205

Secretariat and administration:

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

International Tomography Center, Institutskaya 3a, 630090 Novosibirsk,
Russian Federation

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	
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Institute/ Department	
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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.--*

Correspondence Address:

Prof. Beat H. Meier
ETH Zürich
Laboratorium für Physikalische Chemie
ETH-Hönggerberg, HCI
8093 Zürich, Switzerland

ampere@nmr.phys.chem.ethz.ch
Tel.: +41 1 632 4401
Fax: +41 1 632 1621



Final Report
Specialized Colloque AMPERE:
"ESR and Solid State NMR in High Magnetic Fields"
Stuttgart, Germany, July 22 - 26, 2001

The specialized Colloque AMPERE on "ESR and Solid State NMR in High Magnetic Fields" July 22 - 26, 2001 in Stuttgart, Germany, organized by the 2. Physikalisches Institut of the University Stuttgart, provided a platform for magnetic resonance spectroscopists working both in ESR and NMR in high magnetic fields. In order to specialise on high frequencies and large magnetic fields, the limits were set to ESR at frequencies larger than 50 GHz and or fields larger than 5 T and solid state NMR at fields larger than 12 T. The following topics were covered during the conference:

- CW and pulsed techniques, experimental developments, spin dynamics.
- Molecular materials, polymers, molecular crystals, organic conductors, liquid crystals.
- Biological systems (excluding liquid state NMR), biopolymers, membranes, photoreaction systems.
- Amorphous and crystalline solids, semiconductor nanostructures, spin clusters, magnetic systems, charge and spin density wave systems, high- T_c -superconductors.

The bulk of the participants came from Europe (70 Germany, 8 Switzerland, 7 France, 4 The Netherlands, 4 United Kingdom, 3 Belgium, 2 Hungary, 2 Italy, 1 Spain) and neighbouring countries (8 Russia, 3 Ukraine, 2 Slovenia, 1 Estonia, 1 Israel, 1 Poland, 1 Romania, 1 Moldavia). There was a considerable participation from North America (14 USA, 1 CND) and other overseas countries (2 Brazil, 2 Japan).

The conference was opened on Monday with the AMPERE Prize ceremony conducted by Robert Blinc. The winner of the AMPERE Prize 2000, Jan Schmidt from Leiden, Holland, who had not been able to collect the prize in Lisbon last year, presented an exciting lecture on "HF EPR and ENDOR studies of the electronic structure of donor and acceptor centers in SiC".

There were in total eight plenary lectures including the AMPERE Prize lecture. These included R. G. Griffin: "Dynamic nuclear polarization and dipolar recoupling at high magnetic fields"; K. Möbius: "High-Field EPR on electron and proton transfer proteins: Structure and dynamics"; J. H. Freed: "A multifrequency ESR approach to the study of molecular dynamics in complex fluids and macromolecules"; D. Goldfarb: "ENDOR "crystallography" and negative ENDOR effects at 95 GHz"; T. F. Prisner: "High-Field EPR as a tool for the investigation of active sites in proteins"; H. W. Spiess: "Structure and dynamics of

supramolecular systems from solid state NMR and pulsed ESR"; A. Watts: "Solid state NMR to resolve structural details of membrane receptors and peptide channels". A special session on Wednesday commemorated the demise of E. R. Andrew and Karl Hausser. Former students and friends of Karl Hausser paid tribute to his scientific work and his role played in support of magnetic resonance.

Numerous scientific lectures (58) and posters (51) were presented from Monday till Thursday. Among others there were presentations of ESR in pulsed fields up to 50 T, NMR in high- T_c -superconductors in fields up to 41 T. Novel results on the development of ESR in the 180 - 350 GHz range were reported. Because of the diversity of the materials investigated, ranging from biological systems to quantum wells and superconductors, combined with state of the art high field magnetic resonance techniques, the scientific atmosphere was very demanding and triggered many discussions.

Besides the scientific program two outstanding highlights should be mentioned, namely the public lecture "Son et Lumière" on Monday evening by John Salthouse from Manchester, which dealt with fire and explosions and the Conference Dinner Event: "Science meets Industry" where about 400 scientists and people from the local industry met on Wednesday for a very lively and entertaining conference dinner. This included a historical lecture by Richard Ernst on "NMR meets Industry", an experimental show, a magician and, of course, a dinner.

We are in particular indebted to the local power company Neckarwerke Stuttgart (NWS) who supported the conference not only financially, but took care of the excursions, the Salthouse lecture and the conference dinner event: "Science meets Industry". We also gratefully acknowledge the financial support from Bruker Analytic who not only sponsored the AMPERE Prize, but also the Sunday evening reception. The large participation of scientists from "East European Countries" including Russia was made possible through financial support by the Deutsche Forschungsgemeinschaft (DFG).

For the local organizers:

Michael Mehring and Gert Denninger

Report on the 6th International Conference on Magnetic Resonance Microscopy

University of Nottingham, UK

3rd to 5th September 2001

The 6th International Conference on Magnetic Resonance Microscopy (ICMRM 6) organised by the AMPERE Division of Spatially Resolved Magnetic Resonance was held from the 3rd to the 5th September 2001 on the new Jubilee Campus of the University of Nottingham, UK. The meeting was attended by some 151 delegates from 18 different countries, with notably large contingents from Japan and North America. The health of the subject was apparent in the number of delegates attending an ICMRM meeting for the first time, including a number of established researchers new to MRI and seeking to use the method for their own studies. The campus location, with on-site accommodation, lent an intimate feel to the meeting which encouraged dialogue and which was warmly welcomed by many attending. The meeting was sponsored by Bruker, Doty Scientific, Rapid Biomedical and Resonance Instruments.

Delegates heard a diverse and interesting range of 10 invited, 4 Young Investigator Award and 30 contributed papers. The meeting began with a historical perspective delivered by Prof. Sir Peter Mansfield speaking in his “home” town. Thereafter presentations covered all aspects of the subject: technique development and advances in instrumentation, and applications to biology, medicine and materials science and engineering. Many of the presentations made clear that the boundaries of MR microscopy are increasingly fuzzy, with ample demonstration of the overlap to spectroscopy, q -space microscopy and transport propagator analysis. Several showed that true μ -scopy was becoming a reality. Beyond the confines of the scientific meeting, delegates enjoyed a social programme including a visit to Nottingham Castle and, nestling below, “Ye Olde Trip to Jerusalem” which claims to be the oldest inn in the country.

It was generally acknowledged that a particular highlight of the meeting was the Young Investigator Awards competition. This competition was open to all research students and post doctoral researchers. The four finalists, who were pre-selected on the basis of submitted abstracts and letters of recommendation, had their conference fees waived in return for presenting a talk at the meeting. The four were Song-I Han (RWTH Aachen, Germany) who spoke on “NMR imaging of a falling drop”, Steven Beyea (New Mexico Resonance, USA) who spoke on “Spatially resolved isotherms of thermally polarised gases in mesoporous solids using NMR imaging”, Alexandre Khrapitchev (Massey University, NZ) who spoke on “NMR as a tool for the investigation of velocity fluctuation in porous media” and Derek Seeber (Ohio State University USA) who spoke on “Toward MRI of single biological cells at micron resolution”. Each gave an exemplary presentation describing first class work. The independent panel of judges appointed to choose an overall winner were hard pressed so to do, given the high quality, but finally awarded the first prize (a cheque and engraved vase) to Steven Beyea.

As is now customary with ICMRM meetings, the conference proper was preceded on the 2nd September by a one-day educational session where a number of invited speakers were asked to present a lecture. These lectures covered the fundamentals of magnetic resonance microscopy for those new to the field and the more practical aspects of some advanced techniques, such as MRI of hyperpolarised gases. Almost exactly half of the conference delegates attended this session.

Meeting in Nottingham, the Division Committee unanimously elected Eiichi Fukushima as the new Division chairman and, at the same time, filled a number of other administrative positions which had become vacant. In open session, Eiichi Fukushima thanked retiring committee members. He also asked delegates to remember Prof. E R (Raymond) Andrew, who died 27th May 2001, in a minute's silence. Prof. Andrew had a strong association with the ICMRM and with the University of Nottingham, where he held the Lancashire-Spencer Chair of Physics for nearly twenty years.

The committee was pleased to confirm that the next meeting will be organised jointly by David Ailion and Robert (Bob) Botto in Utah, USA in September 2003 and expressed a hope that the meeting thereafter in 2005 would be held in Japan. Finally, we (PJM and RWB) would like to thank our colleagues, and in particular Paul Glover, for all their help in organising the meeting.

Prof. Peter J. McDonald
Prof. Richard W. Bowtell
meeting co-chairs.

This report is printed again in bulletin No. 204/205 due to incorrect text reproduction in the last edition.

The Annual Zavoisky Award

The 2001 Zavoisky Award in Electron Paramagnetic Resonance Spectroscopy was awarded to

Professor **Keith A. McLauchlan**

Oxford

in a ceremony marking his outstanding contribution to the investigation of short-lived free radicals after their formation in a laser flash.

The ceremony was preceded by the Eleventh Annual Workshop “Modern Development of Magnetic Resonance”, 1–3 October 2001. The program of the Workshop was as follows:

- M. M. Zaripov (Kazan Physical-Technical Institute, Kazan, Russia), “Magnetic Resonance in Kazan and S. A. Al’tshuler. Reminiscences”
- Yu. V. Yablokov (Institute of Molecular Physics, Polish Academy of Sciences, Poznan, Poland), “Paramagnetic Resonance of Oxides. Crystals or Ceramic?”
- M. Prokhorov, A. A. Manenkov (Institute of General Physics, Moscow, Russia), “Reminiscences about S. A. Al’tshuler”
- V. A. Golenischev-Kutuzov (Kazan Physical-Technical Institute, Kazan, Russia), “The Main Discovery of S. A. Al’tshuler”
- M. V. Eremin (Kazan State University, Kazan, Russia), “Crystal Field and Dzyaloshinsky-Moriya Interaction in $\text{La}_{0.95}\text{Sr}_{0.05}\text{MnO}_3$: an EPR Study”
- K. A. McLauchlan (University of Oxford, Oxford, UK), “The Chemical Effects of Very Low Static and Time-Varying Magnetic Fields”
- M. P. Tseitlin, K. M. Salikhov (Kazan Physical-Technical Institute, Kazan, Russia), “EPR Imaging of Lossy Objects”
- J. Forrer (ETH, Zurich, Switzerland), “From the First Down to the Present EPR Detection Systems: Investigations and Modern Applications”
- G. Annino (Institute of Atomic and Molecular Physics, Pisa, Italy), “Development of an Effective Whispering Gallery Modes-Based EPR Probehead”
- E. L. Vavilova, N. N. Garif’yanov (Kazan Physical-Technical Institute, Kazan, Russia), “The High-Temperature Magnetic Anomalies in NaWO_3 Single Crystals at Low Sodium Content”
- H. Stegmann (Institute of Organic Chemistry, Tübingen, Germany), “Molecular and Chiral Recognition by EMR”
- S. A. Moiseev (Kazan Physical-Technical Institute, Kazan, Russia), “Principles of the Photon Echo for the Complete Reconstruction of the Quantum States of the Light”
- Corvaja (University of Padua, Padua, Italy), “Spin Polarization of Stable Free Radicals by Singlet Oxygen”
- R. M. Eremina (Kazan Physical-Technical Institute, Kazan, Russia), “Temperature Dependence of EPR Spectra of $\text{Cu}_{1-x}\text{Ni}_x\text{GeO}_3$ ”

- M. L. Falin, K. I. Gerasimov (Kazan Physical-Technical Institute, Kazan, Russia), A. V. Leushin (Kazan State University, Kazan, Russia), H. Bill (University of Geneva, Geneva, Switzerland), “EPR and Optical Spectroscopy of Yb³ Ions in Fluorite-Type Crystals”

In the evening of October 2, a reception of Professor K. A. McLauchlan by the Prime Minister of the Republic of Tatarstan, R. Minnikhanov, took place.

The Zavoisky Award was presented on October 3, 2001 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. Müblius (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. Müblius (1994), J. S. Hyde (1995), G. Feher (1996), K. A. Valiev (1997), J. H. Freed (1998), J. H. van der Waals (1999), and H. M. McConnell (2000).

The selection of Professor Keith A. McLauchlan was made from many nominations solicited from international experts in EPR.

The Award Ceremony starting in the afternoon of October 3 was attended by about 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. The Vice-Rector of the Kazan State University Professor N. K. Zamov, 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 A. A. Boyarchuk, Academician-Secretary of the Department of General Physics and Astronomy of the Russian Academy of Sciences, Professor H. W. Spiess, President of the AMPERE Society, Professor J. R. Pilbrow, President of the International EPR Society, Professor M. Mehring, Vice-President of ISMAR, and N. E. Zavoiskaya, daughter of E. K. Zavoisky, were handed to Professor Keith A. McLauchlan.

K. A. McLauchlan gave his Zavoisky Award lecture in which he discussed problems of flash photolysis electron paramagnetic resonance. A concert by a string quartet preceded and followed the ceremony. The event was concluded with a Banquet in honor of Professor K. A. McLauchlan and his outstanding contributions

to EPR. During a stay in Kazan the laureate visited the museum of history of the Kazan State University, the places of historical and cultural interest in Kazan, and an agricultural firm “Maiskii”.

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

**Nominations Open for the
Zavoisky Award 2002**

The Zavoisky Award 2002 will be presented at the annual Workshop

“Modern Development of Magnetic Resonance”

in September 2002 in Kazan, where E. K. Zavoisky demonstrated EPR in 1944.

This prestigious award is given in recognition of an outstanding contribution to the development of electron paramagnetic resonance. It is presented by the Kazan Zavoisky Physical-Technical Institute of the Russian Academy of Sciences, Kazan State University, the Tatarstan Academy of Sciences, and Springer-Verlag Wien New York. The lecture of the award-winner will be published in the journal “Applied Magnetic Resonance”.

Nominations are being sought from the EPR community worldwide. A brief presentation of the applicant covering 1–2 pages is expected. The final decision is made by the Award Selection Committee which comprises: B. Bleaney (Oxford), G. Feher (La Jolla), K. Mübius (Berlin), A. Schweiger (Zurich), Yu. D. Tsvetkov (Novosibirsk), and the Chairman, K. M. Salikhov (Kazan). The selection of the Awardee is made after consultations with the Advisory Award Committee which comprises C. A. Hutchison Jr. (Chicago) and Yu. N. Molin (Novosibirsk).

Nominations should be submitted to

*Dr. Laila V. Mosina
Executive Secretary of the Zavoisky Award Committee
Kazan Zavoisky Physical-Technical Institute
of the Russian Academy of Sciences
Sibirsky trakt, 10/7
Kazan, 420029
Russian Federation
E-mail: mosina@kfti.knc.ru
Fax: 7-8432-765075*

The deadline for submission of nominations is April 1, 2002.

First Circular

AMPERE X NMR SCHOOL Zakopane (Poland) , June 2 - 7, 2002.

GENERAL INFORMATION about the School.

The AMPERE X Nuclear Magnetic Resonance School (about 80 participants) is organized by the Radiospectroscopy Division of the Institute of Physics, Jagellonian University, Cracow, Poland, under the auspices of the GROUPEMENT AMPERE and the Jagellonian University. The School takes place in Zakopane (Tatra Mountains) - about 100 km. south of Cracow.

INTERNATIONAL ADVISORY COMMITTEE.

Hans W. Spiess (Mainz) - President of the Groupement AMPERE,
Myer Bloom (Vancouver),
Bernhard Bluemich (Aachen),
Paul T. Callaghan (Palmerston North),
Daniel Canet (Nancy),
Jacek W. Hennel (Krakow),
Stefan Jurga (Poznan),
Rainer Kimmich (Ulm),
Jacek Klinowski (Cambridge),
Olga Lapina (Novosibirsk),
Bruno Maraviglia (Rome),
Fanny Milia (Athens),
Peter G. Morris (Nottingham),
Alex Pines (Berkeley),
Narcyz Pislewski (Poznan)

LOCAL ORGANIZERS.

Jerzy S. Blicharski - Chairman
Barbara Blicharska
Hubert Haranczyk
Waldemar Nosel

LIST OF INVITED SPEAKERS.

The following speakers have confirmed their participation:

Bernhard Bluemich (Aachen),
Bruno Boddenberg (Dortmund),
Paul T. Callaghan (Palmerston North),
Lyndon Emsley (Lyon),
Robert Glaser (Beer-Sheva),
Jean Grandjean (Liege),

Hubert Haranczyk (Cracow),
Franciszek Hennel (Karlsruhe),
Andrzej Jasinski (Cracow),
Stefan Jurga (Poznan),
Rainer Kimmich (Ulm),
Waclaw Kolodziejski (Warsaw),
Serge Lacelle (Sherbrooke),
Olga Lapina (Novosibirsk),
Hans H. Limbach (Berlin),
Bruno Maraviglia (Rome),
Beat Meier (Zurich),
Hartwig Peemoeller (Waterloo),
Alex Pines Berkeley),
Narcyz Pislewski (Poznan),
Ernst Roessler (Bayereuth),
Horst Schneider (Halle),
Annalaura Segre (Rome-Montelibretti),
Hans W. Spiess (Mainz),
Jan Stankowski (Poznan),
Slawomir Szymanski (Warsaw).

ACCOMMODATION AND FEE.

The accommodation takes place at the University Conference Centre "Pod Berlami", address: ul. Grunwaldzka 9, 34-500 Zakopane, phone/fax (++48-18)-201-3221 or (018)-201-3221 in Poland, at Pension "Carlton" ul. Grunwaldzka 11, phone/fax (018)-201-4415 and at the University house "Lada", ul. Szymanowskiego 3, phone (018)-201-2783.

The lectures will be held at the Conference Centre "Pod Berlami" ("Under Sceptres"). Meals will be served at the Pension "Carlton" and the Centre "Pod Berlami". The conference fee will be about 900 Polish zloty (about 200 US Dollars). It may be paid at the conference office just after arrival to Zakopane. The fee includes the accommodation and meals during the School as well as conference materials (Proceedings).

SCHOOL DETAILS.

The participants of the School are asked to arrive Zakopane on Sunday, June 2. The conference office in Zakopane will be open on June 2, since 1 p.m. at the Centre "Pod Berlami". The School will start on Sunday, June 2, at 4.00 p.m. There will be two scientific sessions in the first day and three sessions in the next working days, i.e. two sessions with plenary lectures in the morning and one session in the evening. At the evening sessions on Monday, June 3 and Wednesday, June 5, there will be presentations of posters. During the afternoon breaks we are planning common walks to beautiful valleys of Tatra Mountains. The participants, who want to present a poster, should send one page abstract to the organizers as Word for Windows file, by e-mail till April 19. For sending the abstracts please use the e-mail address: nmr@castor.if.uj.edu.pl

TRAVEL.

There are nonstop flights from Chicago, Frankfurt, London, Paris, Rome, Tel Aviv, and Warsaw to Cracow, frequent connections by bus and train from Krakow to Zakopane and direct trains from Poznan and Warsaw to Zakopane. A special bus for invited speakers and other guests (on e-mail request) will be organized on Sunday, June 2, at 1 p.m. from the Institute of Physics of the Jagellonian University in Cracow at Reymonta street 4.

REGISTRATION.

The deadline for the registration at the School is April 19, 2002. All participants (except the speakers and those who were registered earlier) should send by e-mail or fax to the organizers a short registration form, which is enclosed below. A chronological order of the applications will be taken into account. The next circular of the School will be sent by e-mail in April 2002.

Current information about the AMPERE IX NMR SCHOOL will be available at <http://www.uoks.uj.edu.pl/~ufjblich/xnmr.htm>

REGISTRATION FORM

AMPERE X NMR SCHOOL in Zakopane on June 2 - 7, 2002.

First name and surname:

.....

Scientific degree:

Postal address:

.....
.....

E-mail address:

.....

Title and authors of the poster:

.....
.....

Date:

Address of the organizers :

Jerzy S. Blicharski

Institute of Physics, Jagellonian University

ul. Reymonta 4, 30-059 Krakow, Poland

E-mail : jsb@castor.if.uj.edu.pl

Fax : +48-12-6337086, phone : +48-12-6324888 # 5543.

Ampere Summer School in Leipzig

The **Ampere Summer School** will be held from **July, 10 - 13, 2002 in Leipzig/Germany** in close connection with the **31st Congress Ampere** on Magnetic Resonance and Related Phenomena (web-page: <http://ampere.amu.edu.pl/>) organized from **July 14 - 19, 2002 in Poznan/Poland** by STEFAN JURGA (Rector, Adam Mickiewicz University, Poznan), JAN STANKOWSKI and NARCYZ PISLEWSKI (Institute of Molecular Physics, Polish Academy of Sciences).

The Ampere Summer School will take place at the Faculty for Physics and Earth Sciences of the University of Leipzig, Linnéstrasse 5, D-04103 Leipzig, Germany.

The distance between Poznan (Poland) and Leipzig (Germany) is relatively close, this will enable the participants to travel either by train or by car within a time of no more than approximately 6 hours. On 14 July 2002, it is planned to arrange a bus trip to Poznan for the participants of the Ampere Congress in Poznan, if there are more than 20 persons interested. The route will be Leipzig-Wroclaw-Poznan, with sightseeing in Wroclaw and registration in Poznan on July 14 between 19.00 – 20.00 h.

The topics of this Summer School concentrate on NMR in solid state physics, biology and material science and comprise large molecules, interfaces, nanostructured materials, as well as transport phenomena.

Fees/Accommodation:

The participants are asked to contribute to the costs for the organization of this school with a financial contribution of 30,00 Euros which should be paid at the conference desk at the beginning of the Summer School. The participants should take care for the accommodation (Hotels, Pensions, Guest Houses) by themselves. A general information about accommodation in Leipzig is available under the web-address

<http://www.leipzig.de>

If the participants are interested to find a room in a students hostel (dormitory), they are kindly asked to mention their interest as soon as possible, but not later than March 31, 2002 to the secretary of the Summer School, Privatdozent Dr. Brigitte Staudte
e-mail: bstaudte@physik.uni-leipzig.de
phone: +49-341-97 -32504

The **preliminary time schedule** is the following:

10 July 2002

17.00 – 21.00 h: Registration

19.00 – 21.00 h: Welcome Party (pretzels and beer) and Poster Session I

11 July 2002

Lectures

9.00 – 10.30 h
(Break: 10.30 – 11.00 h)
11.00 – 12.30 h
(Lunch)

Lectures

14.00 – 15.30 h
(Break: 15.30 – 16.00 h)
16.00 – 17.30 h

Poster Session II
17.30 – 19.00 h

12 July 2002

Lectures

9.00 – 10.30 h
(Break: 10.30 – 11.00 h)
11.00 – 12.30 h

(Lunch)

Lectures

14.00 – 15.30 h
(Break: 15.30 – 16.00 h)
16.00 – 17.30 h

17.30 h

Guide to the NMR and EPR laboratories (among them: PFG-NMR-techniques for self-diffusion measurements; high-field solid-state NMR spectrometer, EPR pulse techniques)

13 July

Local excursions in Leipzig or individual trips to Dresden, Halle or Weimar or the “Lutherstadt“ Wittenberg

14 July

Bus trip Leipzig-Wroclaw-Poznan for participants of the Ampere Congress

**The following topics will be treated in the Summer School:
(total time for lectures 8 x 90 min, minimum time for each lecture 90 min)**

NMR-Microscopy and Imaging techniques
Bernhard Blümich (Aachen) et al.

Diffusion and transport in molecular systems
Jörg Kärger (Leipzig) et al.

High-resolution NMR of half-integer quadrupole nuclei in solids
Marek Pruski (Ames, USA) et al.

High resolution NMR in solids [with fast sample rotation and cross-polarization/cross-relaxation techniques]
Matthias Ernst (Zürich) et al.

High resolution MAS NMR at high fields [in systems with restricted molecular mobility]
Dieter Michel (Leipzig) et al.

3D structure determination by NMR techniques
Marc Baldus (Göttingen)

Xe cross-polarization
Eike Brunner (Regensburg), Stefan Appelt (Aachen)

Accommodation:

A limited number of rooms in Student's Hostels will be available at a relatively low price.

Organizers of the Summer School:
B. Blümich, D. Freude, J. Kärger, D. Michel, S. Berger

We kindly invite you to attend this Ampere Summer School

With kind regards and best wishes, on behalf of the organizers,

Dieter Michel

address:
University of Leipzig, Faculty of Physics and Earthsciences
Linnéstrasse 5
D-04103 Leipzig

michel@physik.uni.-leipzig.de
phone: +49-341-97-32600
Fax: +49-341-97-32649

Ampere 2002

*31st Congress Ampere Magnetic Resonance and Related
Phenomena*

July 14-19, 2002

*Adam Mickiewicz University,
Poznan, Poland*

You are cordially invited to participate in the 31st AMPERE Congress on Magnetic Resonance and Related Phenomena, which will be held at the Adam Mickiewicz University of Poznan, Poland, July 14-19, 2002.

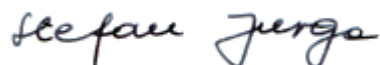
Poznan is the capital of Great Poland (Wielkopolska) province and important academic center with over 100,000 students.

The aim of the conference is to provide an international forum for physicists, chemists, biologists and materials scientists working in the fields of NMR, EPR and NQR.

We will be proud and honoured to host in Poznan many outstanding scholars from all over the world.

The conference is under the auspices of the Groupment AMPERE which celebrates in 2002 its 50th anniversary. The Groupment was established in France in 1952 with a view to improving information exchange and research coordination. The motto proposed by Professor R. Freeman for this new Society was based on three ideas: "Se connaitre, S'entende, S'entraider" (mutual knowledge understanding and cooperation). Today the name and the traditions of the Groupment Ampere are a guarantee of a high scientific standard. The Groupment plays an important role in maintaining an exchange of scientific ideas.

Welcome to our web site for additional information concerning the Congress. It is currently being updated and we invite you to check the homepage regularly for details.



**Professor Stefan Jurga,
Chairman of the Organizing Committee**

The Congress, organized by [Adam Mickiewicz University](#) and [Polish Academy of Sciences](#) will be held in Poznan, Poland, on July 14-19, 2002.

Congress Secretariat

Dr Jacek Radomski
Secretary
Uniwersytet im. Adama Mickiewicza
ul. Zwierzyniecka 7
60-813 Poznan
Poland
Phone: +48(61) 829 4434
Fax : +48(61) 829 2428
email: ampere@amu.edu.pl

Deadlines

March 31, 2002: Receipt of abstracts

March 31, 2002: Early registration

March 31, 2002: Hotel reservations

Scope of the Conference

The programme of the conference will cover a wide range of topics, including:

- Magnetic Resonance Relaxation Studies and Kinetics
- EPR and NMR in Material Science
- NMR Imaging and Microscopy
- High Magnetic Field EPR and NMR in Biological Systems
- Nanostructures/Giant Magnetoresistivity
- Superconductivity/Phase Diagrams
- Fullerenes and Organic Systems
- Theory of Magnetic Resonances
- Experimental Methods/New Techniques/NMR and EPR
- Liquid Crystals and Polymers

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Institute of Molecular Physics, Polish Academy of Sciences

Chairman of the Editorial Committee

NARCYZ PISLEWSKI

Institute of Molecular Physics, Polish Academy of Sciences

Conference Secretariat/Inquiries

JACEK RADOMSKI, Secretary

Starting Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
9.00 – 10.30	Participants Registration	Opening ceremony <i>Grand Auditorium of A. Mickiewicz University</i>	Plenary session <i>Collegium Physicum at Morasko</i>	Plenary session <i>Collegium Physicum at Morasko</i>	Plenary session <i>Collegium Physicum at Morasko</i>	Invited Lecture <i>Collegium Physicum at Morasko</i>
10.30 – 11.00			Coffe break			
11.00 – 12.30			Plenary Session	Invited Lecture NMR EPR	Invited Lecture NMR EPR	Invited Lecture NMR EPR
12.30 – 14.30		Lunch				
14.30 – 15.45	Welcome reception (Get-Together Party) <i>Hotel</i>	Plenary session	Oral Presentation NMR EPR		Oral Presentation NMR EPR	Departure of the Participants
15.45 – 16.15			Coffe break		Coffe break	
16.15 – 18.00			Poster session 1		Poster session 2	
18.00 – 19.00				Conference banquet <i>Hotel</i>		

**6th International Conference on Magnetic Resonance in Porous
Media (MRPM6)
September 8 – 12, 2002
Ulm, Germany**

Call for papers

Scope of the Conference:

After Bologna (1990), Canterbury (1993), Louvain (1995), Trondheim (1997), Bologna (2000), this will be 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, zeolites, soil, gels, 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.

Scientific Advisory Committee:

Rainer Kimmich (chair, D); Jerzy Blicharski (PL); Bernhard Blümich (D); Giulio C. Borgia (I); Richard Bowtell (GB); Robert J. S. Brown (USA); Paul Callaghan (NZ); Paola Fantazzini (I); Eiichi Fukushima (USA); John Gore (USA); Laurie Hall (GB); Jörg Kärger (D); 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); Marija Vilfan (SI)

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Invited Speakers:

Bernhard Blümich, Aachen; Paul Callaghan, Wellington; Paola Fantazzini, Bologna; Eiichi Fukushima, Albuquerque; Lynn Gladden, Cambridge; John C. Gore, New Haven; Geneviève Guillot, Orsay; Manfred Holz, Karlsruhe; Jörg Kärger, Leipzig; Jean-Pierre

Korb, Palaiseau; Pierre Levitz, Palaiseau; Peter McDonald, Guildford; Ken Packer, Nottingham (now Aylsham); Alex Pines, Berkeley; Pabitra Sen, Ridgefield; Yi-Quao Song, Ridgefield; Frank Stallmach, Leipzig; Siegfried Stapf, Aachen; John Strange, Canterbury; Marija Vilfan, Ljubljana

Contributed Papers:

The Scientific Advisory Committee invites abstract submissions to be presented in oral and poster sessions. The deadline for receipt of abstract submissions is

April 15, 2002

Instructions for abstract submission and registration details are posted on the MRPM6 website at

www.uni-ulm.de/nmr/mrpm6/conference.htm

Registration Deadline: reduced fees apply until **July 1, 2002**. The registration form and other detailed information can be found on the website.

Contact:

Prof. Dr. Rainer Kimmich
Universität Ulm
Sektion Kernresonanzspektroskopie
Albert-Einstein-Allee 11
D - 89069 Ulm
Germany

Phone: ++49/731/50-23141
Fax: ++49/731/50-23150
E-mail: birgit.koerner@physik.uni-ulm.de

FUTURE CONFERENCES

AMPERE EVENTS

AMPERE X NMR School, Zakopane (Poland)
June 2-7, 2002.

[31st Congress AMPERE](#), Poznan (Poland)
July 14-19, 2002.

[6th International Meeting on Magnetic Resonance in Porous Media](#),
Ulm (Germany)
September 8-12, 2002.

Specialized Colloque AMPERE 2003 - NMR and EPR of Broad-Line Solids,
Bernardin, Portoroz (Slovenia)
September 8-12, 2003.

OTHER EVENTS

2002

[223rd ACS National Meeting](#), Orlando, Florida (USA)
April 7-11, 2002.

[Worldwide Varian NMR Users'Conference](#), Fairchild Auditorium,
Stanford University, Stanford, California (USA)
April 12-12, 2002.

[43rd ENC](#), Asilomar, Pacific Grove, California (USA)
April 14-19, 2002.

101. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie
e.V.

[Kern- und Elektronenspins als dynamische und kinetische Sonden](#)
Potsdam, (Germany)
May 9-11, 2002.

[11th Meeting ISMRM/Section for Magnetic Resonance Technologists](#),
Honolulu, Hawaii (USA)
May 17-19, 2002.

[10th ISMRM Meeting](#), Honolulu, Hawaii (USA),
May 18-24, 2002.

Finnish NMR Symposium 2002, Pori, (Finland)

June 2-5, 2002.

For information please contact [Jorma Mattinen](#).

[16th European Experimental NMR Conference \(EENC\)](#),

Prague (Czech Republic)

June 9-14, 2002.

3rd European Analytical Laboratory Managers Association Conference

[EuroALMA 2002](#), Berlin, (Germany)

June 12-14, 2002.

[44th Rocky Mountain Conference](#), Denver, Colorado (USA)

July 28 - Aug. 1, 2002.

13th Workshop on Solid State NMR

Estes Park/Ft. Collins, Colorado (USA)

August 2-3, 2002.

[224th ACS National Meeting](#), Boston, Massachusetts (USA)

August 18-22, 2002.

European Society for Magnetic Resonance in Medicine and Biology

[19th ESMRMB Meeting](#), Cannes (France)

August 22-25, 2002.

[20th ICMRBS](#), Toronto, Ontario (Canada)

40 years of ICMRBS

August 25-30, 2002.

Groupe français d'Etudes de Résonance Magnétique /NMR Discussion Group

[Anglo-French Meeting on Magnetic Resonance Spectroscopy](#),

Southampton, England (U.K.)

September 4-7, 2002.

[SMASH 2002 \(Small Molecules Are Still Hot\)](#)

Breckenridge, Colorado (USA)

September 15-18, 2002.

[GDCh Magnetic Resonance Meeting](#), Bremen, (Germany)

September 25-27, 2002.

[6th Int'l Workshop on Magnetic Resonance \(Spectroscopy and Tomography\)](#),

Rostov State University, Rostov-on-Don, (Russia)

October 8-11, 2002.

For information contact [Gennadii Borodkin](#) (+7.8632.433894, fax +7.8632.434667)

The 29th Annual Conference of the Federation of Analytical
Chemistry and Spectroscopy Societies (FACSS),
Rhode Islands Convention Center, Providence, RI (USA)
October 13-17, 2002.

2003

[11th ISMRM Meeting](#), Toronto, Ontario (Canada)
May 10-16, 2003.

16th International RSC Meeting on NMR Spectroscopy
Cambridge (U.K.)
June 29- July 3, 2003.

European Society for Magnetic Resonance in Medicine and Biology
[20th ESMRMB Meeting, Rotterdam](#) (The Netherlands)
September 18-21, 2003.

2004

[12th ISMRM Meeting](#), Kyoto, (Japan)
May 15-21, 2004.

2005

[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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Abou-El-Nasr L.A. Dr.	Department of Physics University of Alexandria		Alexandria	Egypt
Ailion D.C. Prof.	218 James Fletcher Building Dept.of Physics/University of UTAH	115 South 1400 East	Salt-Lake-City, Utah 84112	USA
Aksnes D.W. Prof.	Department of Chemistry University of Bergen	Allegt. 41	N-5007 Bergen	Norway
Amoureux J.P. Dr.	Laboratoire: LDSMM Université de Lille	Batiment P5, USTL	F-59655 Villeneuve D'ascq	France
Apth T. Dr.	Institute Jozef Stefan Department F5	Jamova 39	SI-1000 Ljubljana	Slovenia
Arcon D. Dr.	Institute Jozef Stefan Department F5	Jamova 39	SI-1000 Ljubljana	Slovenia
Atsarkin V. Prof.	Inst. of Radio Engen. & Electronics Russian Academy of Sciences	11, Mokhovaya Str.	103907 Moscow	Russia
Baker J.M. Dr.	Clarendon Laboratory Oxford University	Parks Road	Oxford OX1 3PU	U.K.
Balcom B.J. Dr.	Dept. of Physics University of New Brunswick	POBox 4400	Fredericton, N.B. E3B 5A3	Canada
Balcou Y. Dr.	Université de Rennes	18 rue La Fontaine	F-35700 Rennes	France
Barbur I. Prof. Dr.	Department of Physics University of Cluj-Napoca	Kogalniceanu 1	R-3400 Cluj-Napoca	Romania
Baumann H.	Amersham Pharmacia Biotech		SE-751 84 Uppsala	Sweden
Bercu M. Dr.	Dept. of Atomic & Nuclear Physics University of Bucharest	P.O. Box MG-11	RO-76900 Bucharest-Magurele	Romania
Berliner L.J. Prof.	Department of Chemistry & Biochem. University of Denver	2190 E. Iliff Avenue, Room 202	Denver, CO 80208	USA
Berthier C. Dr.	Lab. Spectrometrie Physique Université J. Fourier Grenoble I	BP 87	F-38402 Saint Martin d'Hères	France
Béné G.-J. Prof.	Section de Physique	24 quai E. Ansermet	CH-1211 Genève 4	Switzerland
Bill H. Prof.	Départ. de Chimie Physique Sciences II, Université de Genève	30 quai Ernest-Ansermet	CH-1211 Genève 4	Switzerland
Blackband St. J.	Center for Structural Biology University of Florida	Box 100245	Gainsville, FL 32610-0245	U.S.A.
Blicharski J. S. Prof.	Institute of Physics Jagiellonian University	ul. Reymonta 4	PL-30-059 Krakow	Poland
Blinc R. Prof. Dr.	Institute Jozef Stefan Department F5	Jamova 39	SI-1000 Ljubljana	Slovenia
Blot P. Mr.	Contrôle Industriel et Scientifique	1 rue Blondel	F-92000 Courbevoie	France
Bluemich B. Prof.	Makromolekulare Chemie RWTH	Worringer Weg 1	D-52056 Aachen	Germany

Bluemler P.	Scholl of Physical Sciences University of Canterbury at Kent		Canterbury CT2 7NR	U.K.
Bodenhausen G. Prof.	ICMB EPFL - BCH		CH-1015 Lausanne	Switzerland
Bogdan M. Dr.	Institute of Isotopic and Molec.Tech	Donath 65-103, P.O.Box 700	R-3400 CLUJ- NAPOCA 5	Romania
Bohris A.J. Mr.	MR Research, Depart.of Radiology Weill Med.College of Cornell Univ.	515 East 71st Street	New York NY 10021	USA
Bondar A.M. Dr.	Institute of Metallurgy Russian Academy of Sciences	Leninskii Prospect 49	117312 Moscow	Russian Federation
Borgia C. Prof.	ICMTA Università di Bologna	Viale Risorgimento 2	I-40100 Bologna	Italy
Boscaino R. Prof.	Istituto di Fisica Università di Palermo	Via Archirafi 36	I-90123 Palermo	Italy
Botto R. E. Dr.	Chemistry Div./Bldg. 200 Argonne National Laboratory	9700 South Cass Avenue	Argonne, Illinois 60439	USA
Bray P.J. Prof.	Physica Dep.Radiogr.& Micr.Spectr. Brown University		Providence, R.I. 02912	USA
Bredimas A.P. Dr.	Residence du Clos d'Alencon, C.4.	35 Rue General de Gaulle	F-91140 Villebon sur Yvette	France
Briguet A. Prof.	Lab. de Réson. Magn. Nucléaire-CNRS Université Cl. Bernard Lyon - CPE	43 bld du 11 Novembre 1918	F-69622 Villeurbanne Cedex	France
Brinkmann D. Prof.	Physikalisches Institut der Universität Zürich	Winterthurerstr.190	CH-8057 Zürich	Switzerland
Britton Melanie Dr.		5 Burgoyne Rd	Camberley, Surrey GU15 1LS	U.K.
Brun E. Prof.		Schmittackerstr. 3	CH-8304 Wallisellen ZH	Switzerland
Burnett L.J.	Quantum Magnetics	7740 Kenamar Court	San Diego, CA 92121	U.S.A.
Buzaré J.Y. Prof.	Lab. de Physique de l'Etat Condensé CNRS UPRESA 6087, Université de Maine	Avenue Olivier Messiaen	F-72085 Le Mans Cedex 9	France
Caldarelli St. Dr.	Institut de Recherches sur la Catalyse	2, Avenue A. Einstein	F-69625 Villeurbanne	France
Callaghan P.T. Prof.	School of Chemic.and Phys. Sciences Victoria University of Wellington	P.O.Box 600	Wellington	New Zealand
Chapochnikov I.G. Prof.	App. 38	14, ul. Bortchaninov	CIS-614068 Perm,	Russia, CIS
Chavva A. Dr.	Chemical Department St. Petersburg State	University prospect,	RUS-198904 St.	Russia

	University	house 2	Petersburg	
Chézeau J.M. Prof.	Ecole Nationale Supérieure de Chimie	3 rue Alfred Werner	F-68093 Mulhouse Cédex	France
Chizhik V.I. Prof.	Quantum Magnet.Phén.,Fac.of Physics University of St. Petersburg		198904 St. Petersburg	Russian Federation
Choh S.H. Prof.	Department of Physics Korea University	1 Ahnam-Dong, Sungbuk-Ku	Seoul 136-701	Korea
Clement Dr	Inst. d'Electronique Fondamentale Université Paris Sud	Batiment 220	F-91405 Orsay	France
Codd Sarah Dr.				
Colligiani A. Prof. Dr.	Dipart.di Chimica E.Chim.Ind. Università di Pisa	Via Risorgimento 35	I-56100 Pisa	Italy
Corti M.E. Dr.	Dept. of Physics "A. Volta" University of Pavia	Via Bassi 6	I-27100 Pavia	Italy
Cozar O. Prof. Dr.	Department of Physics University of Cluj- Napoca	Kogalniceanu 1	R-3400 Cluj-Napoca	Romania
Crozier Stuart	Centre for Magnetic Resonance The University of Queensland		St. Lucia Qld 4072	Australia
De Los Santos Armando	Southwest Research Institute	P.O. Drawer 28510	San Antonio, TX 78228-0510	U.S.A.
De Luca Francesco	Dept. Physics University "La Sapienza"	P.le Aldo Moro 2	I-00182 Roma	Italy
Demco D.E. Prof. Dr.	Makromolekulare Chemie RWTH Aachen	Worringerweg 1	D-52056 Aachen	Germany
Denninger A.W. Prof. Dr.	2. Physikalisches Institut Universität Stuttgart	Pfaffenwaldring 57	D-70550 Stuttgart	Germany
Depireux J. Professeur	Groupe de Physique des Solides Université de Liège, B5	Institut de Physique	B-4000 Sart-Tilman / Liège 1	Belgium
Derzhanski A. Prof.	Institute of Solid State Physics Bulgarian Academy of Sciences	72 Tzarigradsko Chaussee Blvd	BG-1784 Sofia	Bulgaria
Dickinson L.C. Dr.	Polymer Science + Engineering University of Massachusetts	Conte Nat. Center Polymer Research	Amherst MA 01003	USA
Dimitropoulos C. Dr.	Institut de Physique expérimentale EPFL	PH-Ecublens	CH-1015 Lausanne	Switzerland
Dolinsek J. Prof. Dr.	Institute Jozef Stefan Department F5	Jamova 39	SI-1000 Ljubljana	Slovenia
Dormann E. Prof. Dr.	Physikalisches Institut der Universität Karlsruhe (TH)	Postfach 6980	DW-76128 Karlsruhe 1	Germany

Doty F.D.	Doty Scientific, Inc.	700 Clemson Rd.	Columbia, SC 29223	U.S.A.
Doughty D.A.	BDM Petroleum Technologies	P. O. Box 2543	Bartlesville, OK 74005	U.S.A.
Emsley L. Dr.	Ecole Normale Supérieure de Lyon	46 allée d'Italie	F-69364 Lyon cédex 07	France
Ernst R.R. Prof.	Laboratorium für physikal. Chemie ETH Zürich	ETH-Hönggerberg, HCI	CH-8093 Zürich	Switzerland
Ernst M. Dr.	Laboratorium für Physik. Chemie ETH Zürich	ETH-Hönggerberg, HCI	CH-8093 Zürich	Switzerland
Fantazzini Dr.	Dipartimento di Fisica Università di Bologna	Via Imerio 46	I-40126 Bologna	Italy
Ferrer-Anglada Nuria Dr.	Dept. of Applied Physics Universitat Politècnica de Catalunya	Campus Nord, B4, C. Girona s/n	E-08034 Barcelona	Spain
Fiat D. Prof.	Dept of Physiology and Biophysics University of Illinois	M/C 901, 835 S. Wolcott	Chicago, IL 60612-7342	USA
Florea Chr. S. Dr.	Physics Department-NMR Group Polytechnical Institut Bukarest	313, Spl. Independentei	77206 Bukarest	Romania
Fordham Edmund	Schlumberger-Doll Research	Old Quarry Road	Ridgefield, CT 06877-4108	U.S.A.
Fraissard J. Prof.	Laboratoire de Chimie des Surfaces Université Pierre et Marie Curie	4 Place Jussieu (Boite 196)	F-75252 Paris Cedex 05	France
Fukushima E. Prof.	New Mexico Resonance	2301 Yale Blvd., SE	Suite C-1 Albuquerque, NM 87106-4352	U.S.A.
Furo I. Dr.	Dept. of Physical Chemistry Royal Institute of Technology		S-10044 Stockholm	Sweden
Geen H.L. Dr.	Department of Physics University of Nottingham	University Park	Nottingham NG7 2RD	UK
Geru I.I. Prof. Dr.	Department of Physics State University of Moldova	60 A. Mateevici str.	MD-2009 Chisinau	Moldova
Giurgiu Liviu Dr.	Institute of Isotopic and Molecular Technology	P.O. Box 700	R-3400 Cluj-Napoca 5	Romania
Glinchuk M.D. Dr.	Institute for Material Sciences Academy of Sciences of Ukraine	Krjijanovskogo Str. 3	Kiev 252 180	Ukraine
Goerke Ute Dr.	School of Physical Sciences University of Surrey		Guildford, Surrey GU2 5XH	U.K.
Goldman M. Prof.	Centre d'Etudes de Saclay DRECAM/SPEC	Orme des Merisiers, BP 2	F-91191 Gif-sur-Yvette Cedex	France

Grecu V.V. Prof.	Physics Faculty University of Bucharest			R-76900 Bucharest, PO.BOX MG-11	Romania
Grecu M.N. Dr.	Institute of Atomic Physics, Inst. of Physics + Techn. of Materials		P.O.Box MG-7	R-76900 Bucharest- Magurele	Romania
Grobet P.J. Prof.	Center of Surface Chemistry Catholic University of Leuven		Kardinaal Mercier Laan 92	B-3001 Leuven	Belgium
Gross Dieter	Bruker Analytische Messtechnik GMBH		Silberstreifen	D-76287 Rheinstetten	Germany
Grucker D. Prof.	Institut de Physique Biologique Univ. Louis Pasteur / Fac. Médecine		4 rue Kirschleger	F-67085 Strasbourg Cédex	France
Guibé L. Mr.			15, Allée de Tréville	F-92330 Sceaux	France
Haase A. Prof.	Physikalisches Institut Universität Würzburg		Am Hubland	D-97074 Würzburg	Germany
Hall L.D. Prof.	Herchel Smith Laboratory Cambridge University		Robinson Way	Cambridge CB2 2PZ	U.K.
Halperin W.P. Prof.	Dept. of Physics and Astronomy Northwestern University		2145 Sheridan	Evanston, IL 60208- 4400	USA
Hennel J. Prof.	Institute of Nuclear Physics		Ul. Radzikowskiego 152	PL-31342 Krakow 23	Poland
Hoffmann S.K. Prof. Dr.	Instytut Fizyki Molekularnej Polskiej Akademii Nauk		Smoluchowskiego 17/19	PL-60-179 Poznan	Poland
Hull E. Dr.	Abt. Zentrale Spektroskopie (R0400) Deutsches Krebsforschungszentrum		Neuheimer Feld 200	D-69120 Heidelberg	Germany
Hunter Geoffrey	Dept of Chemistry University of Dundee			Dundee DD1 4HN	Scotland UK
Il'yasov A. Prof. Dr.	Inst. of Org. and Phys.Chemistry RAS		Arbusov Str. 8	RUS-420088 Kazan, Tatarstan	Russia
Ioncu V. Dr.	Department of Physics University of Cluj- Napoca		Kogalniceanu 1	R-3400 Cluj-Napoca	Romania
Ivanov V. I. Dr.	L.V. Kirensky Inst. of Physics Siberian Academy of Sciences		Akademgorodok	CIS-660036 Krasnoyarsk, Russia	Russian Federation
Jacobs R.E.	California Institute of Technology 139-74 Beckman Institute			Pasedena, CA 91125	U.S.A.
Jardetzky O. Prof.	Stanford Magnetic Resonance Lab. Stanford University			Stanford, CA 94305- 505	USA
Jeener J. Prof.	CP-232 Université Libre -Plaine		Bd. du Triomphe	B-1050 Bruxelles	Belgium

Johnson G.A. Prof.	Radiology Duke University, Medical Center	Box 3302	Durham, North Carolina 27710	USA
Jokisaari J.P. Prof.	Department of Physical Sciences University of Oulu		FIN-90014 Oulu	Finland
Jonsen P. Dr.	Varian Ltd. 9 Claro Court Business Centre	Claro Road	Harrogate, North Yorkshire HG1 4BA	U.K.
Kalbitzer H.R. Prof. Dr. Dr.	Biophysics and Phys. Biochemistry University of Regensburg	Universitätsstr. 31	D-93053 Regensburg	Germany
Kanazawa Y. Dr.	Faculty of Pharmaceutical Sciences Kyushu University	Maidashi, Higashi-ku	Fukuoka 812-82	Japan
Kapadia R. Dr.	Scanco USA, Inc.	10 Lantern Lane	Wayne, PA 19087	U.S.A.
Keller T. Dr.	Bruker Analytik GmbH	Silberstreifen	D-76287 Rheinsetten 4	Germany
Kimmich H. Prof. Dr.	Sekt. Kernresonanzspektroskopie Universität Ulm	Albert Einstein Allee 11	D-89069 Ulm/Donau	Germany
Kind R. Prof. Dr.	Institut für Quantenelektronik ETH-Hönggerberg		CH-8093 Zürich	Switzerland
Kleinberg R.L. Mr.	Senior Research Scientist Schlumberger-Doll Research	Old Quarry Road	Ridgefield, Connecticut 06877	USA
Knoergen Manfred	Dept of Physics Uni Halle	Friedemann-Bach-Pl. 6	D-06108 Halle	Germany
Kochelaev B.I. Prof.	Physics Department Kazan State University	Lenin St.	CIS-420008 Kazan, Tatarstan	Russian Federation
Komoroski R.A. Dr.	NMR Lab, 151K/NLR VA Medical Center	2200 Fort Roots Drive	Little Rock, Arkansas 72114	USA
Korecz L. Dr.	Central Res. Inst. for Chemistry Hungarian Acad. Sciencies	P.O. Box 17	H-1525 Budapest	Hungary
Kothe G. Prof.	Dept. of Physical Chemistry University of Freiburg	Albertstr. 21	D-79104 Freiburg i. Br.	Germany
Kowalewski V.J. Prof.	Departamento de Fisica Fac. de ciencias exactas y naturales	Pabellon N:1	1428 Buenos Aires	Argentina
Kuhn W.P. Dr.		Langental 18	D-66440 Blieskastell	Germany
Kymtys L. Prof.	General Physics and Spectroscopy Vilnius University	Universiteto 3	2734 Vilnius	Lithuania
Lafontaine Eric MR.		5 Alle du Japon	F-91300 Massy	France

Lalowicz Z.T. Dr.	Institute of Nuclear Physics	Ul. Radzikowskiego 152	PL-31-342 Krakow	Poland
Larson Gary	ISOTEC, Inc.	3858 Benner Road	Miamisburg, OH 45342	U.S.A.
Lauterbur C. Prof.	Biomedical Magnetic Resonance Lab. University of Illinois	2100 South Goodwin Avenue	Urbana, IL 61801-4794	USA
Leibler K. Mrs.	Library Inst. of Physics Polska Akademia Nauk	Al. Lotnilow 32/46	PL-002 668 Warszawa	Poland
Leisen J. E. Dr.	School of Textile & Fiber Engin. Georgia Institute of Technology		Atlanta GA 30332-0295	U.S.A.
Lippmaa E. Prof.	Nat.Inst.of Chem.Phys.and Bio Phys. Estonian Academy of Sciences	Rävala Puiestee 10	Tallinn 10143	Estonia
Lloyd Charles	Dental School University of Dundee		Dundee DD1 4HN	Scotland, UK
Loneragan Andrew	Magnex Scientific Inc.	5051 Commercial Circle, Suite C	Concord, CA 94520	U.S.A.
Low W. Prof.	Recah Institute of Physics The Hebrew University of Jerusalem	Givat Ram	Jerusalem 91904	Israel
Lubitz W.B. Prof. Dr.	Max-Volmer-Institut für Biophys. Chem. & Biochem., TU Berlin	Strasse des 17. Juni 135	D-10623 Berlin	Germany
Luz Z. Prof.	The Weizmann Inst. of Sciences Dept. of Chemical Physics		76100 Rehovot	Israel
Macri M.A. Dr.	Istituto Fisica Medica Università di Chieti		I-66100 Chieti	Italy
Maddinelli G. Dr.	Physical Chemistry Department Eni Technology	Via F. Maritano 26	I-20097 S. Donato - Milan	Italy
Magusin P. Dr.	Fac.of Chemistry + Chem.Engineering Eindhoven University of Technology	P.O. Box 513 (room: STW 3.25)	5600 MB Eindhoven	The Netherlands
Majer G. Dr.	Max-Planck-Inst. für Metallforschung Institut für Physik	Heisenbergstrasse 1	D-70569 Stuttgart	Germany
Mantle D. Dr.	Chemical Engineering Cambridge University	Pembroke Street	GB-Cambridge CB2 3RA	U.K.
Maraviglia B. Prof.	Dipartimento di Fisica Università di Roma	Piazzale Aldo Moro 2	I-00185 Roma	Italy
Marinov R. Mr.	Institute of Solid State Physics Bulgarian Academy of Sciences	72 Tzarigradsko Chaussee Blvd	BG-1784 Sofia	Bulgaria
Martinelli Massimo Dr.	Inst. di Fisica Atomica e Molecolare National Council of Research	Via G. Moruzzi 1	I-56124 Pisa	Italy

Mastikhin I.V. Dipl.-Phys.	International Tomography Center	Institutskaya 3a st.	Novosibirsk 630090	Russia
Mateescu G.D. Prof. Dr.	Dept. of Chemistry Case Western Reserve University		Cleveland, Ohio 44106-7078	USA
McDonald P.J. Dr.	Department of Physics University of Surrey		Guildford Surrey GU2 5XH	U.K.
Mehring M. Prof.	2. Physikalisches Institut Universität Stuttgart	Pfaffenwaldring 57	D-70550 Stuttgart 80	Germany
Meier B.H. Prof. Dr.	Lab. für Physikalische Chemie ETH-Zürich	ETH-Hönggerberg, HCI	CH-8093 Zürich	Switzerland
Michel D. Prof. Dr.	Fakultät f.Physik und Geowissensch. Universität Leipzig	Linnéstr. 5	D-04103 Leipzig	Germany
Milia F. Prof.	Physics Department NRC Demokritos	Aghia Paraskevi-Attikis	GR-15310 Athens	Greece
Miljkovic L. Prof.	Department of Physics University of Nis	Ciril Metodije 2	Nis, Serbia	Yugoslavia
Misra S.K. Prof.	Department of Pysics Concordia University	1455 de Maisonneuve Blvd West	Montreal (Quebec) H3G 1M8	Canada
Molin Y.N. Prof.	Inst. of Chem. Kinetics & Combustion Siberian Div. Russian Acad.Sciences		CIS-630090 Novosibirsk, Russia	Russian Federation
Morris P.G. Prof.	Magnetic Resonance Centre University of Nottingham	University Park	Nottingham NG7 2RD	U.K.
Mosina Leila V. Dr.	Zavoisky Physical-Technical Institute	Sibirsky trakt 10/7	Kazan, 420029, Tatarstan	Russian Federation
Mosiniewicz-Szablewska E.M.S. Dr.	Institute of Physics Polish Academy of Sciences	Al. Lotnikow 32/46	Warsaw 02-668	Poland
Möbius K. Prof. Dr.	Fachbereich Physik Freie Universität Berlin	Arnimallee 14	D-14195 Berlin 33	Germany
Mueller Detlef	Bruker Analytik	Silberstreifen	D-76278 Rheinstetten	Germany
Murin J. Dr.	Department of Physics Technical University	Komenskeho park	04210 Kosice	Slovakia
Müller K.A. Prof.	Physik Institut Universität Zürich	Winterthurerstr. 190	CH-8057 Zürich	Switzerland
Müller R. Prof. Dr.	NMR Lab., Dept. Organic Chemistry University of Mons-Hainaut		B-7000 Mons	Belgium
Naruse Satoru	Department of Internal Medicine II Nagoya University School of Medicine	65 Tsurumaicho, Showaku	Nagoya 466	Japan
Neue G. PD Dr.	Physikalische Chemie Universität Dortmund		D-44221 Dortmund	Germany

Newling B. Mr.	Unilever Research Laboratory Port Sunlight	Quarry Road East	Bebington, Wirral CH63 3JW	U.K.
Nielsen N. Prof.	Dept. of Molecular and Struc. Biology University of Aarhus	Gustav Wieds Vej 10	DK-8000 Aarhus C	Denmark
Norris J.R. Prof.	Dept. of Chemistry University of Chicago	South Ellos Ave.	Chicago IL 6037-1403	U.S.A.
Okerlund Linda	Bruker Instruments	47697 Westinghouse Dr.	Fremont, CA 94539	U.S.A.
Ott H.R. Prof. Dr.	Lab. für Festkörperphysik ETH-Hönggerberg		CH-8093 Zürich	Switzerland
Pajak Z. Prof.	Laboratory of Radiospectroscopie University A. Mickiewicz	Umultowicka	PL-60-780 Poznan	Poland
Palivan C.G. Dr.	Dept. of Atomic & Nuclear Physics University of Bucharest	P.O. Box MG-11	RO-76900 Bucharest- Magurele	Romania
Pan Yong	Procter and Gamble Miami Valley Lab	P.O. Box 538707	Cincinnati, OH 45253- 8707	U.S.A.
Papavassiliou G. Dr.	Institute of Materials Science NSCR DEMOKRITOS	Aghia Paraskevi, Attiki	GR-15310 Athens	Greece
Pasimeni L. Sig.	Dpt Chimica Fisica Università di Padova	Via Loredan 2	I-35131 Padova	Italy
Paul H. Prof. Dr.	Phys.-Chem. Institut Universität Zürich	Winterthurerstr. 190	CH-8057 Zürich	Switzerland
Peacock Evan	Central Science Laboratory University of Tasmania	GPO Box 252-74		Hobart, Tasmania 7001
Australia				
Pfeifer H. Prof. Dr. Dr. h.c.	Universität Leipzig - Physik	Linnéstrasse 5	D-04103 Leipzig	Germany
Pines A. Prof. Dr.	Dept. of Chemistry University of California		Berkeley, CA 94720- 1460	USA
Pislewski N. Prof.	Inst. of Molecular Physics Polish Academy of Sciences	Ul. Smoluchowskiego 17	PL-60179 Poznan	Poland
Pivovarov S.P. Prof.	Chief of the NMR Laboratory Institute of Nucl. Phys.	Academy of Sciences	CIS-480082 Alma-Ata 82	Kazakhstan
Planinsic Gorazd	Department of Physics University of Ljubljana	Jadranska 19	SI-61111 Ljubljana	Slovenija
Potter K. Dr.	Sect. Tissue Biophysics & Biomimetics NIH/NICHD/LIMB 13/3W16E, MSC5772	13 South Dr.	Bethesda, MD 20892- 5772	U.S.A.

Prandolini M.J. Dr.	Fachbereich Physik AG Brewer	Arnimallee 14	D-14195 Berlin	Belgium
Prisner Th. F. Dr.	Inst. of Phys. & Theor. Chemistry J.W. Goethe-University Frankfurt	Marie-Curie Str. 11	D-60439 Frankfurt a. Main	Germany
Punkkinen M. Prof.	Wihuri Physical Laboratory University of Turku		SF-20500 Turku	Finland
Rabbani S.R. Dr.	Instituto de Fisica Universidade de Sao Paulo	Caixa Postal 66318	Sao Paulo	Brasil
Rakos M. Prof. Dr.	Katedra Fyziky Technical University	Komenského park C2	04210 Kosice	Slovakia
Raoult G. Prof.		81 boulevard Joffre	F-92340 Bourg-La-Reine	France
Rath Alan	Varian NMR Instruments	3120 Hansen Way	Palo Alto, CA 94304-1030	U.S.A.
Rayner Tim	InVision Technologies, Inc.	7151 Gateway Blvd.	Newark, CA 94560	U.S.A.
Reichert Dr.	Department of Physics University of Halle	Friedemann-Bach-Pl. 6	D-06108 Halle	Germany
Rigamonti A.A. Prof. Dr.	Università di Pavia Dipartimento di Fisica A. Volta	Via A. Bassi 6	I-27100 Pavia	Italy
Ripmeester John	National Research Council of Canada	100 Sussex Drive	Ottawa, Ontario K1A 0R6	Canada
Rockenbauer A. Dr.	Central Research Inst. for Chemistry of the Hungarian Academy of Sciences	Pusztaszeri ut 57 - 69	H-1025 Budapest 11	Hungaria
Roos J. Dr.	Physik Institut der Universität Zürich	Winterthurerstr.190	CH-8057 Zürich	Switzerland
Sagdeev R.Z. Prof.	International Tomographic Center Siberian Academy of Sciences	Institutskaya 3a,	630090 Novosibirsk	Russian Federation
Saito Koji Dr.	Nippon Steel Corporation Advanced Technology Research Lab.	20-1 Shintomi, Futtsu-City	Chiba, 293-8511	Japan
Salikhov K.M. Prof.	Zavoisky Physical-Technical Institute	Sibirsky trakt 10/7	Kazan, 420029, Tata	Russian Federation
Sarkar S.K. Dr.	Physical + Structural Chemistry Smithkline Beecham Pharmaceuticals	709 Swedeland Road	King of Prussia PA 19406	USA
Schmidt J. Prof. Dr.	Rijksuniversiteit te Leiden Afd. Sterren- & Natuurkunde Huygens Lab	Postbus 9504	NL-2300 RA Leiden	Netherlands
Schmidt-Rohr K. Prof. Dr.	Dept. Polymer Science & Engineering University of Massachus. at Amherst		Amherst MA 01003	USA

Schneider H. Prof. Dr.	Fachbereich Physik Universität Halle	Friedemann-Bach-Platz 6	D-06108 Halle (Saale)	Germany
Schoemaker D. Prof.	Physics Department University of Antwerp (U.I.A.)		B-2610 Antwerp	Belgium
Schwoerer M. Prof.Dr.	Lehrstuhl für Experimentalphysik II Universität Bayreuth	Universitätsstr. 30	D-95440 Bayreuth	Germany
Scrimgeour S.N.	Dental School University of Dundee		Dundee DD1 4HN	Scotland, UK
Seeber D. Dr.	Ohio State University	174 W 18th Ave	Columbus OH 43210	U.S.A.
Seliger Janez J. Prof.	Institute Jozef Stefan Department F5	Jamova 39	SI-1000 Ljubljana	Slovenia
Selivanov St. Dr.	Chemical Department St. Petersburg State University	University prospect, house 2	RUS-198904 St. Petersburg	Russia
Sergeev N. Prof. Dr.	Institute of Physics Szczecin University	ul. Wielkopolska	Szczecin 70 - 451	Poland
Servant Y. Prof.		235 cours de la Somme	F-33800 Bordeaux	France
Shukla Rajesh	Bracco Research USA	305 College Road East	Princeton, NJ 08540	U.S.A.
Sillescu H. Prof.Dr.	Institut für Physikalische Chemie Universität Mainz	Jakob-Welder-Weg 15	D-55099 Mainz	Germany
Simon S. Prof. Dr.	Department of Physics University of Cluj-Napoca	Kogalniceanu 1	R-3400 Cluj-Napoca	Romania
Sklenar V. Prof.	Dept.of Theoret.and Physic.Chemistry Masaryk University	Kotlarska 2	CZ-611 37 Brno	Czech Republic
Slichter C.P. Prof.	Loomis Lab. University of Illinois	1110 W. Green Street	Urbana, Illinois 61801-3080	USA
Smidt J. Prof. Dr. Ir.		van der Dussenweg 8	NL-2614 XE Delft	Netherlands
Smith M.E. Dr.	Department of Physics University of Warwick		Coventry CV4 7AL	U.K.
Smith J.A.S. Prof.	Depart. of Chemistry/Strand Campus King's College London (KQC)	Strand	London WC2R 2LS	U.K.
Spencer Richard	NIH/NIA Gerontology Research Center	4940 Eastern Avenue	Baltimore, MD 21224	U.S.A.
Spevacek J. Dr.,PhD., DSc.	Inst. of Macromolecular Chemistry Academy of Sciences of Czech Republ.	Heyrovsky sq. 2	CZ-162 06 Prague 6	CZ
Spieß H.W. Prof. Dr.	Max-Planck Institut für Polymerforschung	Postfach 31 48	D-55021 Mainz	Germany

Stankowski J. Prof.	Institute of Molecular Physics Polish Academy of Sciences	Smoluchowskiego 17/19	PL-60-179 Poznan	Poland
Stehlik D. Prof. Dr.	FB Physik, WE 1 Freie Universität Berlin	Arnimallee 14	D-14195 Berlin	Germany
Stoesser R. Prof. Dr.	Institute of Chemistry Humboldt University	Hessische Strasse 1-2	D-10115 Berlin	Germany
Strange J.H. Prof.	The Physics Laboratories University of Kent		Canterbury, Kent CT2 7NR	U.K.
Subramanian S. Dr.	Radiation Biology Branch National Institutes of Health	Building 10, Room B3-B69	Maryland 20892	U.S.A.
Sukumar Subramaniam	Varian NMR Instruments	3120 Hansen Way	Palo Alto, CA 94304-1030	U.S.A.
Sullivan N.S. Prof.	Department of Physics University of Florida	215 Williamson Hall/ P.O. Box 118440	Gainesville, FL 82611-8440	USA
Suter D. Prof. Dr.	Fachbereich Physik Universität Dortmund		D- 44221 Dortmund	Germany
Svare I. Professor	Physics Department University of Trondheim, N.T.H.		N-7034 Trondheim	Norway
Szalontai Dr.	NMR lab. University of Veszprem		H-8200 Veszprem	Hungary, Pf. 158
Tabak F. Prof.	Department of Physics Engineering Hacettepe University		06532 Beytepe-Ankara	Turkey
Takui Takeji Prof. Dr.	Dept.Chemistry, Fac.of Science Osaka City	3-3-138 Sugimoto Sumiyoshi-ku	Osaka 558	Japan
Tegenfeldt J. Prof.	Institute of Chemistry University of Uppsala	P.O. Box 531	S-751 21 Uppsala	Sweden
Theobald J.-G. Mr.		La Chapelle des Buis	F-25660 Fontain /Saone	France
Titman J. Dr.	School of Chemistry University of Nottingham	University Park	Nottingham NG7 2RD	Great Britain
Toffianin R.	PROTOS Research Laboratory	P.O. Box 972	I-34100 Trieste	Italy
Tompa K. Prof.	Central Research Inst. of Physics Hungarian Academy of Sciences	POB 49	H-12525 Budapest 114	Hungaria
Tritt-Goc J. Dr.	Inst. of Molecular Physics Polish Academy of Sciences	Ul. Smoluchowskiego 17	PL-60179 Poznan	Poland
Tsvetkov Yu. D. Prof.	Inst. of Chemical Kinetics and Combustion, Siberian Branch, RAS		630090 Novosibirsk 90	Russia

Ursu I. Prof.	Romanian Academy	Calea Victoriei Nr. 125, Sector 1	R-71102 Bucharest	Romania
Van As H. Dr.	Lab of Molecular Physics Wageningen University	Dreijenlaan 3	NL-6703 HA Wageningen	Netherlands
van der Klink Dr.	Institut de Physique expérimentale EPFL	PHB-Ecublens	CH-1015 Lausanne	Switzerland
Van Gerven L.G. Prof., Dr.	Center for Nucl. Magnet.& Radiospec. University of Leuven	Celestijnenlaan 200D	B-3030 Leuven	Belgium
Van Hecke P. Dr.sc.	Biomed.NMR Unit, Fac. of Medicine Katholieke Universiteit Leuven	Gasthuisberg	B-3000 Leuven	Belgium
Vieth H.-M. Prof. Dr.	Inst. f. Experimental Physik Freie Universität Berlin	Arnimallee 14	D-14195 Berlin 33	Germany
Vilfan M. Dr.	Institute Jozef Stefan Department F5	Jamova 39	SI-1000 Ljubljana	Slovenia
von Kienlin M. PD Dr.	Head, MR Imaging & Spectroscopy F. Hoffmann-La Roche AG Pharma	PRPC-S 68/05B	CH 4070 Basel	Switzerland
Waldner F. Prof.	Physikalisches Institut der Universität Zürich	Winterthurerstr.190	CH-8057 Zürich	Switzerland
Walton J.H.	UCD NMR Facility University of California		Davis, CA 95616	U.S.A.
Waugh J.S. Prof.	M.I.T.	77 Mass. Ave., Room 6-235	Cambridge MA 02139	U.S.A.
Weidner J.U. Dr.	Dept. of Physical Chemistry University of Freiburg	Albertstr. 21	D-79104 Freiburg	Germany
Willamowski Silke Ms	Physikalische Chemie Universität Dortmund		D-44221 Dortmund	Germany
Wind R.A.	Pacific Northwest National Laboratory	P.O Box 999, P7-55	Richland, WA 99352	U.S.A.
Wolf H.C. Prof.	3. Physikalisches Institut Universität Stuttgart	Pfaffenwaldring 57	D-70550 Stuttgart	Germany
Wormald P. Mr.	UDIRL University of Durham	South Road	Durham DH1 5NJ	Great Britain
Yeom Tae Ho Dr.	Dept. of Physics Chongju University		360764 Chongju	Korea
Zheliaskova A. Ass. Prof.	Inst. of Solid State Physics Bulgarian Academy of Sciences	72 Tzarigradsko Chaussee Blvd.	BG -1784 Sofia	Bulgaria
Ziessow D. Prof.	Iwan-N.-Stranski-Institut für Phys. & Theor Chemie, TU Berlin	Strasse des 17. Juni 112	D-10623 Berlin	Germany
Zumer S.. Prof.	Physics Department University of Ljubljana	Jadranska 19	SI-1000 Ljubljana SLO-61111	Slovenia