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**BULLETIN DU GROUPEMENT**

**d'informations mutuelles**

**AMPERE**

SE CONNAÎTRE, S'ENTENDRE, D'ENTR'AIDER

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If you would like to become a member of the AMPERE Group, you can register online under: **[www.ampere.ethz.ch](http://www.ampere.ethz.ch)**

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## Editorial

Dear AMPERE colleagues,  
during the upcoming EUROMAR congress in Dublin, the current AMPERE Committee will elect a new AMPERE president, the AMPERE Bureau, and new Committee members on Tuesday, July 3<sup>rd</sup>. All of you are cordially invited to take part in the General Assembly on Wednesday, July 4<sup>th</sup> after the last plenary lecture of that day. Suggestions for candidates to become new committee members can be sent to:  
ampere@nmr.phys.chem.ethz.ch.

These meetings were prepared and general issues of the Society were discussed during the Bureau meeting on March 30<sup>th</sup> 2012 in Zurich. The minutes of this meeting are published on p. 2.

Last summer, one of our subdivisions had its conference, the 11<sup>th</sup> ICMRM in Beijing, China. You can find a report on this event on p. 10. During this meeting, Paul Callaghan made his last large public appearance in our community and was presented with a lifetime achievement award. Paul, who won the AMPERE Prize 2004, passed away in March 2012. We honor him by an obituary written by Eiichi Fukushima p. 8.

With this issue I also want to welcome two new subdivisions, devoted to Magnetic Resonance in the Food Sciences (MR-FOOD) and to the currently very active branch of Dynamic Nuclear Polarization (DNP). DNP is also a major issue in the new EU COST action „European Network for Hyperpolarization Physics and Methodology in NMR and MRI“. For further information on this action, see:

[http://www.cost.eu/domains\\_actions/mpns/Actions/TD1103](http://www.cost.eu/domains_actions/mpns/Actions/TD1103).

Note that you can still sign up. If you are curious, EUROMAR features a Satellite Meeting on Hyperpolarization, see:

<http://euromar2012.org/satellite-meetings/>

The action will also organize a school on spin hyperpolarization, see:

<http://www.lorentzcenter.nl/lc/web/2012/526/info.php3?wsid=526&venue=Snellius>

I am looking forward to seeing you in Dublin



Gunnar Jeschke  
Secretary General of Groupement AMPERE

## Minutes of the meeting of the AMPERE Bureau

in Zürich, on March 30, 2012

Members Present:

B. Meier, G. Jeschke, J. Dolinsek, M. Pons, S. Stapf, S. Jurga, B. Balcom, S. van Doorslaer, R. Kind, M. Ernst

Excused:

B. Maraviglia, G. Smith, H. W. Spiess, L. Frydman, J. van Duynhoven

Agenda:

1. Approval of the minutes of the AMPERE Bureau meeting in Zürich, April 1, 2011.
2. Report on the state of the AMPERE Society (B. H. Meier).
3. Financial Report (G. Jeschke).
4. EUROMAR Division (S. van Doorslaer).
5. Financial report on EUROMAR division (M. Pons).
6. Report on Andrew prize (G. Jeschke for H. W. Spiess).
7. Final reports past meetings
  - EUROMAR 2011, Frankfurt (Germany) (S. van Doorslaer)
  - ICMRM11 Changping, Beijing (P.R. China) (S. Stapf).
  - AMPERE NMR School Zakopane (Poland) (S. Jurga).
8. Future meetings 2011/2012
  - EUROMAR 2012, Dublin (Ireland) July 1-5, 2012 (S. van Doorslaer)
  - MRPM11, Guildford, (UK) September 9-13,2012 (S. Stapf)
  - MRFOOD, Wageningen (the Netherlands) 2012 June 27-29 (2012) (J. van Duynhoven)
9. Personnel changes in the AMPERE Bureau and Committee
10. Varia
11. Date of next meeting

At 13:00 hours G. Jeschke opened the meeting. The agenda was approved unanimously.

Ad 1.

The minutes of the AMPERE Bureau meeting in Zürich, April 1, 2011, published in the AMPERE Bulletin 242, were approved unanimously.

Ad 2.

B. Meier delivered his report on the state of the Groupement AMPERE. He remarked that this would be the last report as a president of Ampere since he will step down at the General Assembly this summer in Dublin after two periods in office. He reminded people of the passing away of Robert Blinc in September who was very closely linked to the development of AMPERE. He also remembered the recent passing away of Paul Callaghan. Both will be honored at the EUROMAR in Dublin for their achievements in the field of magnetic resonance.

The AMPERE society is in a positive and stable situation and needs to work on consolidating the current development after the formation of EUROMAR. It is important to keep in close contact with EUROMAR and make sure we keep things together under the umbrella that the AMPERE society provides. There are many new people now involved who do not know the history of AMPERE very well and it is important to make them aware of the ideas and history of AMPERE.

Ad 3.

G. Jeschke distributed a short overview (see appendix) over the finances of the Groupement AMPERE. The finances are solid and have increased slightly. It was decided to stop topping of the Andrew prize account since it has reached the amount of CHF 120000.-.

The financial report was accepted unanimously.

Ad 4.

S. van Doorslaer reported about the EUROMAR division. The president changed from Geoffrey Bodenhausen to Lucio Frydman at the last EUROMAR. There were no changes in the board membership. There will be a new general website for the EUROMAR with a new logo. It will contain information about the past conferences (programs and abstracts) and links to AMPERE and the other involved societies. It was mentioned that passing on the information (sponsors, finances, organizational details) to future organizers is very important for the future of EUROMAR.

Ad 5.

M. Pons reported about the finances of the EUROMAR division. The finances are very good (current balance Euro 73000.-) but this is only a fraction of what organizing a conference actually costs (Euro 300000.-). There was a surplus of Euro 20'000.- from last years EUROMAR which will be used for travel grants for students. There is no longer any support from the ESF through EMAR for the EUROMAR.

Ad 6.

G. Jeschke reported for H. W. Spiess on the Andrew prize. The committee (R. Kaptein, D. Goldfarb, M. Smith and H. W. Spiess) awarded the Ampere prize to Lyndon Emsley and the Andrew prize to Galia Debelouchina from MIT. The Bureau congratulates both prize winners. The information will be published on the AMPERE and EUROMAR webpages.

Ad 7.

The reports for the past meetings were accepted. The AMPERE Bureau thanks all the scientific and local organizers for their time and effort.

EUROMAR 2011 in Frankfurt, Germany (S. van Doorslaer): The meeting was very successful with more than 1000 participants since it was combined with the annual meeting of the GDCh and the EPR meeting. There was a financial gain of about 20.- kEuro but there was still a 50.- kEuro support from EMAR. There were some organizational problems in the collaboration with the GDCh but overall everything went very smoothly.

11th ICMRM Beijing (S. Stapf): There is a written report in the AMPERE Bulletin. The organization was very good with about 200 people participating. The next meeting will be in 2 years in Cambridge, UK.

AMPERE NMR School Zakopane (Poland) (S. Jurga): There is a report in the AMPERE Bulletin. About 100 students from 18 countries participated. There were 38 lectures on a broad range of topics. This year the school will be in Poznan and combined with microscopy and imaging techniques.

Ad 8.

Planned meetings for 2012-2013

EUROMAR 2013, Dublin (Ireland) (S. van Doorslaer): There was no presentation about the forthcoming conference. As of today the registration is very low but it is known from past years that many people register just before the deadline. There will be a memorial talk for Paul Callaghan at the opening session and it was the general consensus that one also should organize a memorial for Robert Blinc who had very close connections with AMPERE. B. Meier agreed to say something at the opening or Hans-Wolfgang Spiess could do it in connection with the prize ceremony. J. Dolinsek agreed to put together some facts. Eiichi Fukushima will write a short scientific memorial for Paul Callaghan that will be published in the AMPERE Bulletin.

It was noted that there is no separate fee for members and non members for the EUROMAR. It would be good if the EUROMAR installs a similar scheme as the MRPM has where the membership fee for one year is included in the conference registration.

AMPERE NMR School Zakopane (Poland) (S. Jurga): This year, the school will be in Zakopane with 2 days of basic tutorials and 3 days of advanced NMR research talks that should also have a tutorial component. There are about 70 students expected to participate.

MRPM12, Surrey (U.K.) (S. Stapf): The meeting will be held after the Olympics and Paralympics in September 2012. Accommodation has been organized and everything is going well. Registration has started and is going well. There will be elections for the steering committee at this meeting.

MRPM14, Wellington (New Zealand) (S. Stapf): The meeting might be shifted towards February/March (southern summer) if it is held in New Zealand.

MRFOOD 2012, Wageningen (The Netherlands) (G. Jeschke): The new subdivision "food sciences" will have a meeting in Wageningen. There are currently 70 people registered which is expected to go up to 100. The proceedings will be published.

EUROMAR 2013, Hersonissos, Crete (Greece) (S. van Doorslaer): The conference will be held during the first week of July. The site has a good reputation and can accommodate up to 5000 people. Everything is going well and the scientific committee is in place.

EUROMAR 2014, Zürich (Switzerland) (G. Jeschke): There is a proposal to hold the EUROMAR in Zürich. One problem are the quite high costs due to the current exchange rate of the Swiss Franc. Another problem is the lack of a large enough lecture hall for the plenary lectures at ETH and the University of Zürich as well as the lack of cheaper student accommodation. One open question is what typical numbers for participants will be if the EUROMAR is not combined with other conferences (Florence and Frankfurt). It is estimated that it will be more in the range of 500-600 instead of 1000+. The decision about the location needs to be finalized in Dublin this summer.

Ad 9.

The AMPERE Bureau discussed the upcoming personnel changes in the Bureau and the Committee. Beat Meier will step down as president after two periods in office. This has been a tradition at the AMPERE society although it is not required by the statutes. In addition Stefan Jurga will also step down as a vice president. Several people have been suggested for the office and have been asked whether they are willing to accept the office. The Bureau will make a suggestion (two candidates) to the Committee that elect the Bureau. All other officers are willing to run for another election periode.

Ad 10.

Varia:

The Bureau suggests to the Committee to elect Stefan Jurga as a honorary member of the AMPERE Bureau.

Ad 11.

There will be a meeting of the AMPERE Bureau in Dublin during the EUROMAR 2012. The next annual meeting of the AMPERE Bureau will be on March 22, 2013 in Zurich.

At 15:44 hours G. Jeschke closed the meeting and thanked all the present members for their time and effort.

Zürich, 30.3.2012

Matthias Ernst

## Financial Situation of the Groupement AMPERE

Fortune of the Society per March 15<sup>th</sup> 2012

### AMPERE Accounts (CHF)

Savings Account	30'719.05	
Current Account	31'828.29	
Security Depot	0.00	
Savings Account Andrew	34'107.25	
Security Depot Andrew	86'337.10	
<b>Total</b>	<b>182'991.69</b>	

### Accounts of subdivisions (CHF)

NMR school (AMPERE)	8'589.47	€ 7'081.67
MRPM	19'832.20	
Savings Account SMRM	27'773.85	
Savings Account EUROMAR	57'552.85	
Current Account EUROMAR	30'195.54	€ 24'895.00
DNP	0.00	
EPR	0.00	
FOOD NMR	0.00	
<b>Total</b>	<b>143'943.91</b>	

**Grand Total CHF 326'935.60**

1 Euro = 1.212916 CHF

## Obituary - Paul Callaghan

Sir Paul T. Callaghan passed away on March 24, 2012, at his home in Wellington, New Zealand. He was born August 19, 1947 in Wanganui, New Zealand and graduated from Victoria University of Wellington, the institution he came back to at the end of his career. He obtained his DPhil in physics studying anisotropic gamma ray emission from oriented nuclei at Clarendon Laboratory at Oxford University with a UK Commonwealth Scholarship. He became fascinated by the use of nuclear magnetic resonance (NMR) to study diffusion by happenstance at a talk by a graduate student, the late Metka Luzar.

Paul's desire to return to do serious science back in New Zealand landed him at Massey University in 1974 where the Chemistry Department had just acquired a JEOL FX60 NMR spectrometer. Aided by Ken Jolley, he started a research program in applications of NMR to the study of soft matter, building a pulsed field gradient system to study diffusion. A 1984 article on diffusion in Australian Journal of Physics helped get him noticed in the physical NMR community but lasting prominence was assured with the publication of his first NMR book Principles of Nuclear Magnetic Resonance Microscopy in 1991. His prolific career led to over 240 scientific articles and culminated in the publication of Translational Dynamics and Magnetic Resonance: Principles of Pulsed Gradient Spin Echo NMR, finished while enduring chemotherapy.

Paul's contributions in NMR include pioneering the concept of q-space diffraction and imaging wherein the motions of molecules in confined spaces are elucidated, performing modulated gradient spin echo experiments with Janez Stepisnik wherein power spectra of molecular diffusion can be obtained, developing the science of using NMR to study rheology, development of compact NMR instruments, and performing novel NMR experiments on the Antarctic sea ice to characterize brine channel structure in the ice.

After serving as the head of the Physics Department, Paul left Massey in 2001 to become the Alan MacDiarmid Professor of Physical Sciences at his alma mater Victoria University of Wellington where he helped establish and was the inaugural director of the MacDiarmid Institute for Advanced Materials and Nanotechnology. In the same year, he became only the 36th New Zealander to be elected as a fellow of the Royal Society of London.

In 2004, together with Robin Dykstra, Craig Eccles, Mark Hunter, and Andrew Coy, he established Magritek to commercialize small-scale NMR instruments such as those developed in his group. Magritek has become a model high-tech company of the sort Paul would later advocate for New Zealand to stem its brain drain and achieve financial stability. Paul's many awards and prizes as a scientist include numerous fellowships and honorary degrees. He was appointed a Principal Companion of the New Zealand Order of Merit in 2006 and, when the traditional honors were restored, was knighted in 2009. He also won two prestigious prizes in magnetic resonance, the AMPERE Prize (2004) and the Günther Laukien Prize for Magnetic Resonance (2010).

Besides his outstanding scientific contributions, Paul was active in the public domain, initially to impart more knowledge of science to the public but later in trying to influence New Zealand's economic policy towards higher per-capita GDP and improved living standards via the development of small high-tech and high-value industries, such as Magritek. He also generated some notoriety, and subsequent general acceptance and respect, by asking expatriate New Zealanders to repay their student loans in order to help mitigate the country's financial plight following the devastating 2011 earthquake in Christchurch. He co-authored *As Far as We Know: Conversations about Science, Life and the Universe* and *Are Angels OK?: The Parallel Universes of New Zealand Writers and Scientists* and authored *Wool to Weta: Transforming New Zealand's Culture and Economy*. He participated in radio and TV programs and, especially in his last years, delivered many public lectures on the role of science in the New Zealand economy as well as on "science, life, and universe." He championed and was a trustee of Zealandia, a refuge within Wellington that aims to restore the habitat prior to the introduction of mammals. For such public service in addition to his scientific accomplishments, he was named New Zealander of the Year in 2011.

He is survived by his wife Miang, daughter Catherine and son Christopher, three siblings, two grandsons, many cousins and other relatives. He also leaves behind a grateful nation for his contributions, the world-wide NMR community of which he was a major contributor, many former students and postdocs for whom he was a magnificent mentor, and those who knew him personally who lost a dear friend.

Eiichi Fukushima

**11<sup>th</sup> International Conference on MR Microscopy  
August 14-18, Beijing, China.**



## Final Report on ICMRM 11

The 11<sup>th</sup> International Conference on Magnetic Resonance Microscopy (ICMRM) was held at the China University of Petroleum, Beijing, China, from August 14-18, 2011. The university conference centre and adjacent hotels provided a near ideal venue for the meeting. The conference featured joint sessions with the Society of Core Analysts on NMR in Well Logging and core analysis. This was the first international Magnetic Resonance conference held in China.

There were 206 scientific attendees from 16 countries, roughly  $\frac{1}{6}$  from Europe,  $\frac{1}{5}$  from North America, and  $\frac{1}{2}$  from China. The remaining attendees came, from other parts of the world including New Zealand and Australia. Accompanying persons and exhibitors added significantly to the number of conference attendees. To assist international visitors and exhibitors, MIT conference services received registration and sponsorship payments from international attendees on behalf of the conference.

The conference featured two plenary speakers, Professor Warren S. Warren and Professor Axel Haase.

As with past ICMRM conferences the first day began with educational lectures. Eiichi Fukushima, Bernhard Bluemich, Bruce Balcom, Ben Newling and Paul Glover gave educational lectures. Eighteen Invited Speakers, 50 oral presentations, and 97 poster presentations made for a lively and diverse scientific program. One day of the conference ran with parallel sessions.

Ten companies exhibited at the conference. This included long time attendees Bruker and Agilent Technologies in addition to several new Chinese equipment vendors. More than 20 sponsors provided additional cash and in kind support to the conference including major oil companies ranging from CNPC, SINOPEC, CNOOC, Shell and Chevron.

As with past conferences young investigator, best poster and image beauty competitions were held. The young investigator competition occurred in a dedicated session on the third day of the conference.

### **Young Investigator Competition:**

Winner:

Daniel Holland

University of Cambridge

Bayesian Techniques in Magnetic Resonance

Runners Up:

Qingxia Gong, Germany

Breaking the sensitivity limit of low-field NMR by using para-hydrogen induced polarization

Antoine Vallatos, University of Birmingham

Magnetic Resonance Velocimetry in a Vortex Flow Reactor

### **Poster Competition:**

Winner:

Nadia Amor, RWTH Aachen University

Continuously Dissolved Hyperpolarized  $^{129}\text{Xe}$  for Analysis and Biomedical Applications of Hollow Fibers

Runners Up:

Johannes Fuchs, University of Würzburg

Spectroscopic imaging of metabolite dynamics in plant seeds using Interleaved Variable Density (IVD) acquisition

Sarah Vogt, Montana State University

Colloid Transport and Biofouling in Model Porous Media

## **The image beauty competition was won by Nian Wang.**

In addition to the excellent technical program, the conference dinner and excursion showcased the old and new faces of Beijing. The afternoon excursion featured a walking tour of the Forbidden City followed by a magnificent conference dinner in the State Banquet Hall of the Great Hall of the People. This dinner, in a very famous setting, was accompanied by a series of musical and dramatic performances. The Spatially Resolved Magnetic Resonance Division wishes to thank the Conference Chair Prof. Lizhi Xiao, his organizing committee, and the large number of volunteers for a very special evening. Following the conference dinner attendees stopped at the Beijing Olympic park to view the Birds Nest stadium and Water Cube Olympic venues.

Professor Paul Callaghan gave a short speech at the conference dinner, was greeted with a standing ovation, and received a lifetime achievement award from the conference. Professor Callaghan's inspiring speech may be viewed on the ICMRM 11 conference web site. A text version is also reproduced on the web site.

## **Executive Officers and Honorary Members of the AMPERE Bureau**

The AMPERE BUREAU includes the executive officers (which take the responsibility and the representation of the Groupement between the meeting of the committee), the honorary members of the Bureau and the organizers of forthcoming meetings.

### **Executive Officers 2009 - 2012**

President:	B.H. Meier
Vice Presidents:	J. Dolinsek St. Jurga
Secretary General:	G. Jeschke
Executive Secretary:	M. Ernst
EF-EPR Representative:	G. Smith
H.O.D. Representative:	J.Y. Buzaré
SRMR Representative:	B. Balcom
MRPM Representative:	S. Stapf
EUROMAR Representative:	F. Frydman
EUROMAR Treasurer	M. Pons
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## Future conferences Ampere events

### 2012

MRFOOD 2012	Wageningen, The Netherlands	June 27-29 2012
EUROMAR 2012	Dublin, Ireland	July 1-5 2012
NMRCM 2012	St.Petersburg, Petrodvorets, Russia	July 9-13 2012
MRPM11	Guildford, Surrey United Kingdom	September 9-13 2012