

BULLETIN DU GROUPEMENT

d'informations mutuelles

**AMPERE**



SE CONNAÎTRE, S'ENTENDRE, S'ENTRAIDER

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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

## Editorial & Guest Editorial

Dear AMPERE colleagues,

here we are with a Bulletin issue that is even more delayed than the previous one. This is the result of a phenomenon called *Ämterhäufung* in German, the tendency of one person to attract (too) many functions. In my case these are the chairmanship of EUROMAR 2014 in addition to being Secretary General of Groupement AMPERE and to my normal duties. The problem transferred to Kristina Comiotto, who is responsible for editorial handling of the Bulletin and was also responsible for organization of EUROMAR 2014. Two months later we are finally catching up and I promise that future issues will appear at dates matching the months written on the cover.

In this issue you will find the minutes of the spring Bureau meeting in Zurich and the Bureau, Committee, and General Assembly meetings during EUROMAR, as well as the short and extended financial reports. In general, we are on a good track, but activity of our Committee could be stronger. We think that a new Committee structure, which includes *ex officio* board members of European national magnetic resonance societies, would strengthen our organization and make it easier to use AMPERE as a lobbying group for funding of activities in our field. Bureau AMPERE will gather information on such societies and contact them about this idea. If you are reading this and you have any suggestions, or if you are member or chair of the board of such a society, please contact us at [ampere@ethz.ch](mailto:ampere@ethz.ch).

This issue also contains conference reports of the FOODMR 2014 in Cesena (Italy) and, of course, of EUROMAR 2014 in Zürich (Switzerland).



Gunnar Jeschke  
Secretary General of Groupement AMPERE

& Chairman of EUROMAR 2014

## Minutes of the Meeting of the Ampere Bureau

in Zurich, on March 22, 2014

Members Present:

B. Blümich, A. Böckmann, B. Meier, G. Jeschke, J. Dolinšek, M. Pons, L. Frydman (via Skype), F. Stallmach, St. Jurga, J. van Duynhoven (via Skype), M. Ernst

Excused:

M. Johns, H.-W. Spiess

### Agenda:

- Approval of the minutes of the AMPERE Bureau meeting in Dublin March 22, 2013
- Report on the state of the AMPERE Society (B. Blümich)
- Financial Report (G. Jeschke)
- EUROMAR Division (L. Frydman via Skype)
- Financial report EUROMAR division (M. Pons)
- Report on the Andrew and AMPERE Prizes (B. H. Meier)
- Final reports past meetings
  - NMR School 2013, Zakopane (Poland) (St. Jurga)
  - EUROMAR 2013 Hersonissos, Crete (Greece) (L. Frydman)
  - ICMRM 12, Cambridge (UK) (B. Blümich)
  - MRPM12, Wellington (New Zealand) (F. Stallmach)
- Future meetings 2014-2016:
  - FOODNMR 2014, Cesena, Italy, May 20-23 (J. van Duynhoven)
  - NMR School Zakopane, Poland, June 22-28 (St. Jurga)
  - EUROMAR 2014, Zurich, Switzerland, June 29-July 3 (G. Jeschke)
  - EUROMAR 2015, Prague, Czech Republic (L. Frydman)
- Relations between AMPERE & ISMAR and AMPERE & China
- Student grants: Allocation of funds and selection procedure
- Use of AMPERE logo and flyer (B. Blümich)
- Future of Bulletin AMPERE (G. Jeschke)
- Preparation of the Committee Meeting and General Assembly at
- EUROMAR 2014 (G. Jeschke)
- Varia
- Date of the next meeting

At 12:00 hours G. Jeschke opened the meeting.

The agenda was approved unanimously.

The minutes of the AMPERE Bureau meeting in Zurich, March 22, 2013, published in the AMPERE Bulletin 250, were approved unanimously.

B. Blümich delivered his report on the state of the Groupement AMPERE which is given in the appendix to these minutes. The Groupement AMPERE is in general in a healthy state. There are many activities but it is not always clear which activities are run under the auspices of AMPERE and which are not. It would be good to assemble a list of AMPERE activities for the website and also keep the list of past and future events up to date. To increase the awareness for the role of the Groupement AMPERE, it might be good to produce a flyer that informs people about AMPERE and that is included in the book of abstracts of conferences sponsored by AMPERE. Another important topic is the relationship with ISMAR, since also many AMPERE events are no longer European but international. This topic will be discussed in more detail under topic 9. We should also make sure that all subdivisions and events are represented in the AMPERE Bureau.

G. Jeschke distributed a short overview (see appendix) over the finances of the Groupement AMPERE. The finances are solid but have decreased slightly by about 5000.- CHF. The invested money made no profit since 2009 but it is now almost back to the original value. Interest in Switzerland is very low and the income will not be enough to fund the expenses for the prize winners. AMPERE is a non-profit organization by Swiss law.

L. Frydman reported about the EUROMAR division. Last years meeting in Crete was very successful with a good program at a very nice venue. Attendance was not very high. The organizers made no loss but also no profit. The next conferences are 2014 in Zurich, 2015 in Prague and 2016 is not yet decided. There are two good proposals (Nantes, France and Aarhus, Denmark) and both would be good places. The location for 2016 needs to be decided at the meeting in Zurich, the second proposal could be taken for 2017 or 2018. The EUROMAR is currently mostly in locations very central in Europe and it would be good to have also more locations on the periphery of Europe. Other options would be Spain or Portugal (difficult economic situation) or Slovenia and Poland or the Baltic states. This needs to be discussed before the EUROMAR by email so that potential proposals could be discussed there.

M. Pons reported about the finances of the EUROMAR division. The finances are very good (current balance Euro 72000.-) but this is only a fraction of what organizing a conference actually costs. There is no net income and the past two conferences were helped with a starting grant of 10000.- Euro since the EMAR money ran out 2011. Such finances are not sustainable and the EUROMAR money is mainly intended for emergencies. We need to decide what to do about losses.

B. Meier reported that there were many proposals (11 new ones and 10 from last year) of high quality for the Andrew prize and that the final decision will be made soon. After that the prize winner should be added to the EUROMAR and AMPERE web sites. The AMPERE prize is also discussed. Daniela Goldfarb wants to retire from the prize committee. The AMPERE Bureau thanked her for her time and effort over many years and discussed possible candidates for the prize committee (Daniela Goldfarb, Mark Smith, Rob Kaptein, and Beat Meier) to make sure all fields remain covered. Beat Meier will contact potential members and report back to the AMPERE Bureau.

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

NMR School 2013 Zakopane (St. Jurga): The meeting was very successful with 20 teachers and 80 students. It combines tutorial-style lectures with current research results.

EUROMAR 2013 in Crete, Greece: see point 4.

ICMRM 12 Cambridge, UK (B. Blümich for M. Johns): The meeting was highly successful scientifically and well organized. There were about 100 participants, many of them were people who had not participated before. ICMRM 13 will be held in Munich and ICMRM 14 in Canada.

MRPM 12 Wellington, New Zealand (F. Stallmach): The final report is not yet finished but should come next week. The conference was successful with 135 participants. There was also a school before the conference with 4 teachers and 60 students. It was well organized. There is now a new steering committee for MRPM headed by C. Arns. MRPM 13 will be held 2016 in Bologna, Italy and MRPM 14 2018 in Gainesville, Florida.

Future meetings for 2014-2015

FOODNMR 2014, Cesena, Italy (J. van Duynhoven): The organization is in full swing with 90 registrations so far. Hopefully there will be more than 100 people attending. The program is currently being compiled. The organizers of all conferences were reminded that they should show the AMPERE affiliation clearly in the abstract book as well as write a report for the AMPERE Bulletin afterwards.

NMR School Zakopane 2014 (St. Jurga): The summer school will be held in a new hotel this year but the general outline will be similar as in the past. EUROMAR 2014 Zurich, Switzerland (G. Jeschke): The program is largely assembled with 13 plenary talks and three parallel sessions. The posters can be up all the time with three poster sessions planned. Many exhibitors have signed up and contributed talks will be selected after the deadline. It was mentioned that the solid-state physics community is not well represented in the program despite the fact that it is a quite big community. The AMPERE Bureau suggested that they get together and make sure they find somebody who represents their interests in the EUROMAR board and make sure they get included in the program for EUROMAR 2015 in Prague. It would also help if they could suggest a good speaker for a plenary lecture or a tutorial.

EUROMAR 2015, Prague, Czech Republic: The program committee has started working but there are no details available yet.

The president of AMPERE was approached by Prof. Lizhi Xiao from China who asked whether AMPERE could help them to set up an organization similar to AMPERE in China. This raises the question whether AMPERE is a purely European organization and how the relationship and interaction with ISMAR is. There have also been similar requests from Korea in the past. Many events that are organized under the auspices of AMPERE are quite international and not limited to Europe. ISMAR has also plans to interact more with local NMR groups outside Europe. B. Blümich will discuss this issue with the ISMAR president (D. Goldfarb) and report back to the Bureau.

The AMPERE Bureau decided to give again 10 student grants of Euro 500.- each for the EUROMAR 2014 and for the AMPERE Summer School in Zakopane.

The visibility of AMPERE is still not very good despite the fact that a logo and a flyer were created. We should make sure that the AMPERE logo is well visible on conferences organized by AMPERE and that the flyer is added to the program. Gunnar will remind the organizers of conferences about the rules of Ampere for such events.

G. Jeschke reported that it is sometimes difficult to fill the Bulletin with interesting topics. It was suggested to make sure that all conferences write a report for the Bulletin. It would also be good if all subdivisions present their interests and mission statement in the Bulletin from time to time.

The General Assembly will be held at the EUROMAR in Zurich. There will be a Bureau meeting and a Committee meeting before the GA. It should be checked which members of the AMPERE Committee have not been at the past meetings and they will be asked to retire. We need to make sure that all countries are still represented in the Committee.

Varia: We should make sure that all groups that organize events are included into the AMPERE Bureau meetings. This includes the Alpine conference, the Bio NMR school and NMRCM.

The next annual meeting of the AMPERE Bureau will be on March 27, 2015 in Zurich.

At 15:20 hours G. Jeschke closed the meeting and thanked all the present members for their time and effort.

Zurich, 14.3.2014  
Matthias Ernst

## Financial Report

Fortune of the Society per March 1<sup>st</sup> 2014

<b>Ampere Accounts (CHF)</b>	CHF	Euro
Savings Account	30'861.25	
Current Account	20'701.89	
Security Depot	0.00	
Savings Account Andrew	33'074.20	
Security Depot Andrew	89'738.40	
<b>Total</b>	<b>174'375.74</b>	

### Accounts of subdivisions (CHF)

NMR school (AMPERE)	8'573.17	7'047.31
MRPM	43'290.10	
Savings Account SMRM	27'859.55	
Savings Account Euromar	61'436.35	
Current Account Euromar	25'889.77	21'281.88
DNP	0.00	
EPR	7'406.8	
Food NMR	3'643.6	
<b>Total</b>	<b>178'099.34</b>	
<b>Grand Total</b>	<b>352'475.08</b>	

1 Euro = 1.216517 CHF

# Minutes of the Meeting of the Ampere Bureau

in Zurich, on June 30, 2014

Members Present:

B. Meier, G. Jeschke, J. Dolinšek, M. Pons, S. Jurga, H.-W. Spiess,  
L. Frydman, M. Ernst, B. Blümich, A. Böckmann

Excused:

Christoph Arns, Michael Johns, Graham Smith, John Van Duynhoven

## Agenda:

- Approval of the agenda
- Financial Report (G. Jeschke).
- Report on EUROMAR 2014 (G. Jeschke)
- Joined EUROMAR/ISMAR conference 2019 (B. Blümich)
- Relation to Magnetic Resonance Discussion Groups in Europe (G. Jeschke)
- Preparation for Committee and the General Assembly (G. Jeschke).
- Varia

At 12:50 hours G. Jeschke opened the meeting.

The agenda was approved unanimously.

G. Jeschke distributed a short overview (see appendix) over the finances of the Groupement AMPERE. The finances are solid but have decreased due to the low interest rates and the costs of travel grants and prizes.

The financial report was accepted unanimously and will be presented to the AMPERE Committee and to the General Assembly for approval.

G. Jeschke reported on the EUROMAR 2014 here in Zurich. There are about 700 participants (about 90% from Europe, 10% from Asia and America) and it is expected that the conference will make a small surplus. We should make sure that the EUROMAR committee is well balanced to the topics represented at the conference. Women represent about 20-25% of posters and oral contributions with a lower percentage for the plenary speakers. We should make sure that the participation of women is actively encouraged in the same way that we actively seek the representation of different topics and regions in Europe. This is mostly a topic for the EUROMAR board but AMPERE should make sure that the topic gets the required attention.

The ISMAR conference 2019 is scheduled to be in Europe. ISMAR asked whether we are again interested in a joint meeting like in Florence 2010. The AMPERE Bureau agrees that we should have a combined EUROMAR/ISMAR meeting. B. Blümich will discuss this topic with the ISMAR president.

It would make sense to have an agreement that all ISMAR conferences that are held in Europe are combined EUROMAR/ISMAR conferences. The EUROMAR board should make a proposal to ISMAR for the location of the joined meeting in 2019. The meeting should be during the usual EUROMAR conference in early July.

The German MR discussion group approached AMPERE about formal relations between the various national MR discussion groups in Europe. This topic was already discussed at the EUROMAR in Tarragona 2007 without any clear results. It would be good if such a cooperation between the national MR societies could be organized by AMPERE. One possibility would be to make the presidents of the national MR societies ex-officio members of the AMPERE Committee and use it for this purpose. If we implement this, we have to make sure to integrate all groups (multiple groups per country) and find a way to integrate groups that are not formally organized so nobody feels left out. This will require a change in the statutes which will be discussed in detail and prepared by the AMPERE Bureau for 2016. The Bureau will try to collect a list of societies by asking the national Committee members.

The agenda for the AMPERE Committee meeting and the General Assembly were approved. The Bureau will suggest the election of three new committee members: Ville-Veikko Telkki (Finland), Miguel Pons (Portugal), and Christina Thiele (Germany).

Varia:

The request by Prof. Lizhi Xiao from China concerning a collaboration with AMPERE to help create a national magnetic-resonance society for China as discussed in the Bureau meeting in Zurich is still open. B. Blümich will discuss this with the president of ISMAR. The Bureau agreed that ISMAR should be the main lead in this support but AMPERE will give support and input if required. The AMPERE group could be a model how such a society could be organized. The ISMAR meeting could be a focal point to get all interested parties together.

S. Jurga reported that the AMPERE NMR school in Zakopane was very successful this year with 100 participants and good lectures. He would like to thank the AMPERE group for the student travel stipends. The next school will be held in Zakopane from June 14-21, 2015.

At 14:00 hours G. Jeschke closed the meeting and thanked all the present members for their time and effort.

Zurich, 30.6.2014  
Matthias Ernst

# Minutes of the Meeting of the Ampere Committee

in Zurich, Switzerland, on July 2, 2014

Members Present:

B. Meier, J. Dolinšek, S. Jurga, G. Jeschke, M. Ernst, L. Frydman,  
H. W. Spiess, S. Van Doorslaer, B. Blümich, J. Spevacek, D. Suter

Excused:

J.-P. Amoureux, L. Banci, R. Boelens, St. Caldarelli, J. Dolinšek, P.  
Fantazzini, J. Fraissard, J. Jokisaari, P. Morris, K. Salikhov

## Agenda:

- Approval of the Agenda
- Approval of the minutes of the AMPERE Committee meeting in Dublin, July 3<sup>th</sup>, 2012
- Report of the president on the state of the AMPERE Society (B. Blümich)
- Financial report of the secretary general (G. Jeschke)
- Elections of executive officers of the Bureau
- Elections of the Prize Committee for the AMPERE and Raymond Andrew Prizes
- Election of new AMPERE Committee members
- Varia

At 12:50 hours G. Jeschke opened the meeting.

The agenda was approved unanimously.

The minutes of the AMPERE Committee meeting in Dublin, July 3, 2012, published in the AMPERE Bulletin 247/248, were approved unanimously.

B. Blümich delivered his report on the state of the Groupement AMPERE. The AMPERE society is in good shape but we have to work on making "AMPERE" a brand that stands for quality and diversity. There are many activities under the AMPERE name and this is very well visualized by the AMPERE tree which should be in every conference book. There should also be a report from every conference that is connected to AMPERE published in the AMPERE bulletin. It is important that we are open for new developments so that they can get integrated into AMPERE. Therefore, it would be helpful to have a list of all AMPERE conferences on the web even if the dates are not yet known. We should also set up guidelines for organizing conferences under the AMPERE brand (publish AMPERE tree, link to AMPERE web site, reduced fee for members).

The AMPERE committee is not working well at the moment (see attendance list) and there is little input from committee members. The German magnetic resonance society expressed the wish to have more cooperation among the national European MR societies. This could be organized by AMPERE and we could change the committee into a forum where the national MR societies could meet and exchange ideas. The Bureau will discuss the required changes to the statutes and make a suggestion for the next committee meeting in 2016.

It is important to continue the collaboration with ISMAR on non European issues. In the year 2019 the ISMAR conference could be in Europe. We have agreed with ISMAR that all ISMAR conferences in Europe will be joint conferences with EUROMAR. The EUROMAR board will make a proposal to ISMAR for the location. Another collaboration point is the request by Prof. Lizhi Xiao from China for help to organize the Chinese magnetic-resonance community. This should be also done together with ISMAR but AMPERE could give help in how to organize such a national society.

G. Jeschke gave an overview (see appendix) over the finances of the Groupement AMPERE. The finances are good. The financial report has to be approved by the general assembly. The AMPERE Committee accepted the report and the work of the whole Bureau during the past two years unanimously.

The AMPERE Bureau proposes the reelection of all Bureau members in their current offices. The AMPERE Committee followed the recommendation of the Bureau and all members of the Bureau were reelected in a secret ballot.

The president B. Blümich thanked all the members of the prize committee and especially D. Goldfarb who is stepping down for their work. The AMPERE Bureau suggested S. Van Doorslaer as a new member of the Prize Committee. The AMPERE Committee followed the recommendation of the Bureau and elected the Prize Committee by acclamation. The prize committee consists of Beat Meier (president), S. Van Doorslaer, M. Smith, and R. Kaptein.

There were three proposals by the Bureau for new Committee members: Ville-Veikko Telkki (Finland), Miquel Pons (Portugal), and Christina Thiele (Germany). The three new members were elected by acclamation. The proposed changes to the AMPERE Committee were discussed and the consensus was that we should try to make the presidents of the national MR societies ex-officio members of the Committee. The terms of old committee members should be limited and new members should be elected for four years with the possibility of reelection with a limitation to a maximum of 12 years total service. The Bureau will discuss the details and prepare the necessary changes to the statutes.

Varia:

B. Blümich thanked the organizers for the very well received Richard R. Ernst honorary session yesterday evening. We will try to make the video from Weston Anderson available through the AMPERE web page.

At 14:00 hours G. Jeschke closed the meeting and thanked all the present Committee members for their time and effort.

Zurich, 2.7.2014  
Matthias Ernst

# Minutes of the General Assembly of the Groupement Ampere

in Zurich, on July 2, 2014

## Agenda:

- Financial report of the secretary general (G. Jeschke)
- Information about the election of the AMPERE Bureau.
- Information on the new Prize Committee
- Varia

At 19:00 hours G. Jeschke opened the meeting.

G. Jeschke explained the finances of the Groupement AMPERE (see appendix). The assembly approved the financial report unanimously with two abstentions.

The General Assembly was informed about the election of the AMPERE Bureau by the AMPERE Committee. All officers of the society were reelected. President is Bernhard Blümich with the two vice presidents Anja Böckmann (Lyon) and Janez Dolinsek (Ljubljana). Secretary general is Gunnar Jeschke (Zurich) and executive secretary Matthias Ernst (Zurich).

The General Assembly was informed about the election of the AMPERE Prize Committee by the AMPERE Committee. G. Jeschke thanked Daniella Goldfarb, who is stepping down as a member of the prize committee, and all other members for their work during the past two years. The prize committee consists of Beat H. Meier (president), S. Van Doorslaer, M. Smith, and R. Kaptein.

There were no points discussed under varia.

At 19:15 hours G. Jeschke closed the meeting and thanked all the present AMPERE members for their time and effort.

Zurich, 2.7.2010

Matthias Ernst

## Extended Financial Report

Period from June 15<sup>th</sup> 2012 to May 31<sup>st</sup> 2014

	Debit	Credit	Assets
<b>Total fortune on June 15<sup>th</sup> 2012</b>			<b>235'675.98</b>
<b>Membership Fees</b>		8'701.19	
<b>Conferences and Prizes</b>			
Conferences /Ampere Student Grant		38'442.10	
Prizes	34'130.10		
Travel Grants, EPR School	27'403.55		
<b>Administration</b>			
Ampere Bulletin	4'776.00		
Bureau Meetings Zurich	1'872.40		
miscellaneous	1'254.00	2'290.66	
diverse		1'993.00	
<b>Bank</b>			
Interest (Deposits/Coupons)		1'210.50	
Interest (Accounts)		538.10	
Handling costs (Deposits, Bank)	712.30		
<b>Obtained</b>			
ZKB Wertschriftendepot ANDREW		6'482.44	
<b>Total CHF</b>	70'148.35	59'657.99	
<b>Balance</b>			
Balance June 15 <sup>th</sup> 2012			<b>235'675.98</b>
Total Debits	70'148.35		
Total Credits		59'657.99	
Balance May 31 <sup>st</sup> 2014			<b>225'185.62</b>

# **12<sup>th</sup> International Conference on the Applications of Magnetic in Food Science (FOODMR2014)**

## **Scientific Advisory Board**

Peter Belton (chair), Søren Balling Engelsen, Francesco Capozzi, John van Duynhoven, Manfred Spraul, Gisela Guthausen, Jean-Marie Bonny, Antonio Ferreira, Graham Webb

## **Local Organizing Committee**

Francesco Capozzi (chair), Luca Laghi, Claudio Luchinat, Luisa Mannina, Stefano Mammi, Gianfranco Picone (secretary)

The 12<sup>th</sup> International Conference on the Applications of Magnetic Resonance in Food Science (FOODMR) was held between 20-23 May 2014 in Cesena (Italy) and organized by researchers of University of Bologna, Florence, Padua and Rome.

The FOODMR conferences have a long tradition in presenting the latest innovations in magnetic resonance and in particular new applications to understanding the functionality of foods, their processing and stability and their impact on health, perception and behaviour. For the second time this conference was operating as a sub-division of the Groupement AMPERE. The 12<sup>th</sup> edition of this scientific event attracted participants from 21 countries from Europe, Asia, Oceania, and the Americas. The total number of registrations was 140 which is an all time high in the history of the conference. The conference was preceded by a workshop dedicated to technical aspects of spectral deconvolution of high-resolution liquid state NMR spectral of complex mixtures. The motto of the scientific programme was 'Defining Food by Magnetic Resonance'. Deployment of MR relaxometry, diffusometry and imaging, in both time- and frequency domain was the focus of the session dedicated to Definition of Food Matter at different Scales, ranging from the molecular level to the microscopic compartment scale. New methods for decoupling and hyphenation providing 'quantitative experimental conditions' were presented during the qNMR session. After the considerable interest shown during the preceding FoodOmics conference (also held in Cesena and organized by the University of Bologna) this topic was also an important theme in FOODMR conference. On-line and Non-invasive use of Magnetic Resonance make this technique unique as an investigation tool when working on living systems of manufacturing processes. In a dedicated session an overview of the state-of-the-art was provided. New and unusual applications found room in a session dedicated to New Developments.

The programme included 3 keynote speakers, 6 invited speakers and 32 oral presentations selected from submitted abstracts. The conference is indebted to Rob Verpoorte (University Leiden), Luis Colnago (Embrada Instrumentation, Brazil), Gérald Remaud (University of Nantes) for providing excellent keynote presentations. The poster session comprised 60 presentations; Yunan Peng from the University of Cambridge was awarded with a prize for the quality of his poster. The poster prize was sponsored by Agilent Technologies.

Selected oral and poster contributions will be published in the conference proceedings. These will be issued by the Royal Society of Chemistry as a hardcover book. These proceedings have gained popularity as training material for young scientists entering the field of applied magnetic resonance in food science.

This conference was sponsored by Bruker, LOT Quantum Design, Oxford Instruments, Agilent Technologies, Stelar, Unilever, Chenomx, Mestrelab Research, ACD/Labs and Euriso-Top. Without their generous support this conference would not have been able to offer such an attractive programme.

The 13<sup>th</sup> edition of this conference will be held in Karlsruhe (Germany) and will be organized by Gisela Guthausen (Chair – Karlsruhe Institute of Technology). In this conference we expect to see many new developments in the applications of magnetic resonance in food science, and to welcome (even) more participants. The Scientific Advisory Board will be complemented with Jean-Marie Bonny (INRA, Saint Genes-Champanelle, France).

## Report on Euromar 2014

### ETH Zurich, Switzerland

#### International Scientific Committee

Marina Bennati, Anja Böckmann, Lucio Frydman, Alexej Jerschow, Gunnar Jeschke, Malcolm Levitt, Thomas Meersmann, Beat H. Meier, Klaas Prüssmann, Roland Riek, Vladimír Sklenář, Christina Thiele

#### Local Organizing Committee

Frédéric Allain, Matthias Ernst, Gunnar Jeschke, Sebastian Kozerke, Beat H. Meier, Klaas Prüssmann, Roland Riek, Gerhard Wider

The EUROMAR 2014 meeting took place June 29<sup>th</sup>-July 3<sup>rd</sup> at ETH Zurich, Switzerland with almost 700 attendees. More than three quarters of the participants came from Europe. For the first time, Asia had almost caught up with America. The traditional tutorial lectures on early Sunday afternoon were given by Daniella Goldfarb (Hyperfine Spectroscopy), by James Keeler (Introduction to Relaxation Theory), and Rafael Brüschweiler (Synergies between NMR and MD to study protein motions).



Prof. B. Blümich, Prof. G. Bodenhausen, Prof. G. Jeschke (photo: Matthias Ernst)

These lectures were followed by the Opening & Prize Session with addresses by Bernhard Blümich (President of Groupement AMPERE), Lucio Frydman (Chairman of the EUROMAR Board of Trustees), and Gunnar Jeschke (Conference Chairman). This session was chaired by the previous Chairman of the EUROMAR Board of Trustees, Geoffrey Bodenhausen with the prizes being awarded by Beat H. Meier, Chairman of the AMPERE Prize Committee. Olivier Duss received the Raymond Andrew Prize for an outstanding PhD thesis in the field of magnetic resonance that he had written in the laboratory of Frédéric Allain at ETH Zürich. His prize talk was entitled „NMR and EPR as a Tool to Study the Assembly and Structure of a Large Protein-RNA Complex“. The AMPERE Prize was awarded to Christian Griesinger (MPI for Biophysical Chemistry Göttingen, who gave an impressive prize lecture on „New Methods for Measuring Protein Dynamics“. The first day concluded with a Welcome Mixer offering a variety of local cheeses from Zürcher Oberland and with a Jam Session for the musically inclined.

The 13 plenary lectures, 48 invited parallel lectures, and 72 contributed parallel lectures were held Monday through Thursday. Their subjects covered a broad range of applications of NMR and EPR spectroscopy as well as of magnetic resonance imaging, method development, theory, and instrumentation. Biomacromolecules continue to dominate in application work, with more than a quarter of all scientific contributions falling into this category. The trend to addressing ever larger proteins and protein complexes by NMR continues. Work on sizeable membrane proteins with high-resolution or solid-state NMR techniques is no longer exotic, but still a field where work on every new protein is linked to development of new methodology. Even larger membrane proteins can be addressed in lipid bilayer environments by EPR spin-labeling approaches, albeit at lower resolution. In-cell magnetic resonance is still in its pioneer days, but rapidly expanding. The advantage of magnetic resonance spectroscopies over crystallography in obtaining information on protein and nucleic acid dynamics is widely used, with impressive method development going on.

Despite the fact that a satellite meeting of the COST initiative TD1103 (European Network for Hyperpolarization Physics and Methodology in NMR and MRI) had taken place just in the two days before EUROMAR, sensitivity enhancement by hyperpolarization techniques was another major subject of the EUROMAR conference. In this field method development still dominates application work, although applications to surface science and catalysis have come of age. In method development, the combined use of hyperpolarization and long-lived states is certainly one of the main current

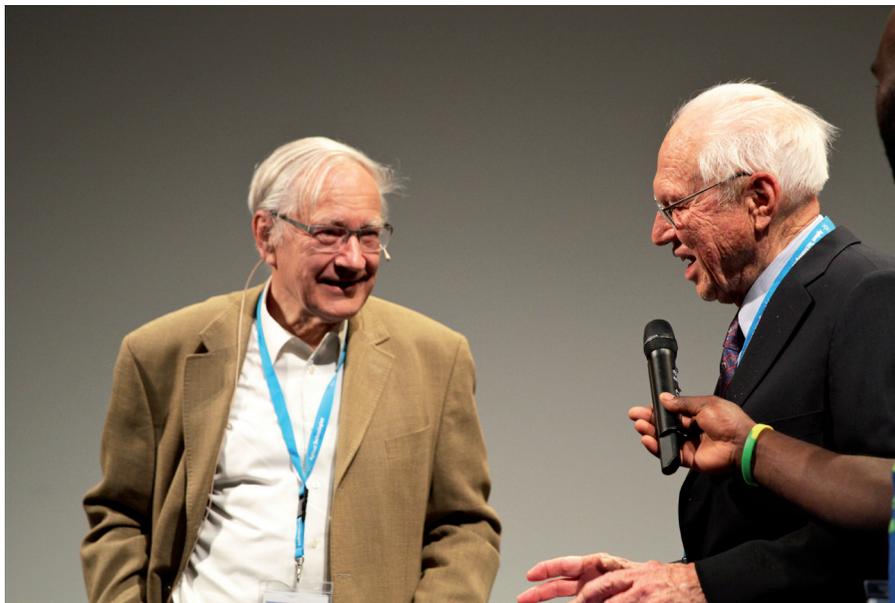
trends. Techniques for fast acquisition of multi-dimensional data sets are also a popular subject and can be combined with hyperpolarization. Metalloproteins, inorganic materials, and, last but not least, small molecules & pharmaceuticals were also prominent among the application talks.

The 377 posters were displayed throughout the conference and presented during poster sessions on Monday and Wednesday afternoon. Finding a poster with a given number was perceived by some as an intelligence test, but according to observations by the organizing team, all poster locations attracted similar numbers of visitors. The poster sessions were very lively and, in addition, attendees were seen discussing posters during Bruker's Hospitality Suites on Monday evening and the JEOL Reception on Wednesday evening. Participation in the popular vote for the Poster Prizes was somewhat less impressive. After discussion with the Poster Jury, the Prizes were awarded to Carlo Camilloni (University of Cambridge), Monu Kaushik (Goethe-Universität Frankfurt/Main), and Marielle Aulikki Wälti (ETH Zürich). The Swiss Chocolate part of the prizes was given only to the two teams that were still represented at the Closing Session.



photo: Matthias Ernst

One of the highlights of the conference was the Richard R. Ernst Honorary Session on Tuesday evening during which Weston A. Anderson and Richard R. Ernst nicely complimented each other and provided a funny and at the same time serious account of the history of the 1991 Nobel Prize. This session opened a special view on science as a human endeavor and raised a chord in many participants. It was followed by an Apéro Riche, a Swiss-style reception that turned out to have a festive atmosphere.



Prof. Dr. Richard R. Ernst and Dr. Weston Anderson (photo: Muriel Delepierre)

Despite the fairly good weather and the attractions of Zürich, sessions were well attended throughout the conference. Somehow the protestant self-discipline of Zürich must have infected EUROMAR participants. As a reward, those who were still present for the Conference Dinner on Thursday evening could enjoy a beautiful evening Alp view. It was one of the rare dry and reasonably mild evenings in summer 2014, which made it possible to have the dinner Biergarten style in front of picturesque Schützenhaus Albisgütli.



Conference dinner (photo: Matthias Ernst)

Thanks are due to our sponsors and exhibitors, ETH administration, ETH technical staff, SV Service for catering the breaks and Apéro Riche, the EUROMAR Board of Trustees, the Scientific and Local Organizing Committees of EUROMAR 2014, speakers, session chairman, and poster presenters, our team of blue-shirt conference helpers, and to Matthias Ernst, Giorgia Zandomeneghi, and Kristina Comiotto for their immense contribution to organizing this conference. I hope that everybody enjoyed it as much as I did.

Gunnar Jeschke  
Chairman of EUROMAR 2014

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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.

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## Future conferences

### Ampere events

#### 2014

EBSA Solide-State NMR School	Munich (Germany)	November 17-20 2014
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#### 2015

Euromar 2015	Prague (Czech Republic)	July 5-11 2015
9 <sup>th</sup> Alpine Conference on Solid-State NMR	Chamonix (France)	September 13-17 2015

#### 2016

Euromar 2016	Aarhus (Denmark)	July 3-7 2016
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### Other events

#### 2015

19 <sup>th</sup> ISMAR conference	Shanghai (China)	August 16-21 2015
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