

# BULLETIN DU GROUPEMENT

d'informations mutuelles



Groupement  
**AMPERE**

SE CONNAÎTRE, S'ENTENDRE, S'ENTRAIDER

July to September 2023

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If you would like to become a member of the AMPERE Society, you can register online under: [www.ampere-society.org](http://www.ampere-society.org)

## Editorial



Dear Members of the Groupement AMPERE,

since the Russian invasion in Ukraine almost two years ago, a terrible war has disrupted the lives of many people on both sides in unimaginable ways. Our colleagues and friends in these countries felt the direct impact of the war. But also many of us, living in other places, were influenced by the war but in more subtle ways. Scientific collaborations with Russia became very difficult or impossible and even contacts to scientists in Russia are not easy and overshadowed by the war. And now we have a second war in the Middle East after the horrible and barbaric terrorist attack of Hamas on Israel where innocent people were indiscriminately killed. Many of our colleagues and friends in the middle east are directly impacted by this war and we hope that they, their families and friends will come out of this war unharmed. We can only hope that in both conflicts a way towards a lasting peace can be found in the near future despite the long history of mistrust and fear.

The Groupement AMPERE was originally founded in the 50's to enable contacts between a separated Eastern Europe and Western Europe. The motto proposed by the founder Prof. René Freymann is still valid and important today: "Se Connaître, S'Entendre, S'Entraider" which translates to "get to know each other, listen to each other, help one another". Let us work together with colleagues and friends from all over Europe and the rest of the world to overcome borders and dividing issues. Let us work towards and hope for a more peaceful future without hatred and wars.

Matthias Ernst  
Secretary General, Groupement AMPERE

## Portrait:

### Enrica Bordignon



#### Why magnetic resonance and why NMR and MRI?

I was in Venice in 2002 at a conference and saw for the first time a talk about site-directed spin labeling EPR by Prof. Perozo.

He described the potential of this novel method to unveil the conformational changes of a membrane protein in action. I found his talk very inspiring. Up to that point in my career I only had used optically-detected magnetic resonance to study photosynthetic systems, but I understood I should move to EPR to solve biologically relevant problems. I therefore started my journey learning site-directed spin labeling methods in Steinhoff's lab in Osnabrueck, and deepening my knowledge on the EPR theory and on pulse EPR at Jeschke's lab at ETH. From the first time I saw a nitroxide spectrum changing according to its characteristic rotational dynamics on a protein site, my decision was made: EPR will be my tool!

#### What is your favorite frequency?

Q band, perfect sensitivity for DEER on proteins with most spin labels!

#### What do you still not understand?

According to the output of our last EFEPR school in Geneva, the most difficult definition to grasp is the definition of SPIN...and I fully agree with this.

#### Luckiest experiment you have ever done.

I still remember the first time I could detect interspin distances on a protein embedded in the outer mitochondrial membrane, using freshly isolated mitochondria extracted from rat liver. This was my first in-organelle EPR performed at ETH, very lucky to get enough signal after one day of accumulation!

#### What was the worst mistake you have made during your lab time?

I burned a few Schottky diodes in Steinhoff's lab. I was operating a continuous wave

home-made bridge, and something was wrong with the grounding. Yet, I learned something more about the bridge, and found a source of very good (cheap) diodes in US.

#### Most memorable conference story.

The memory is still fresh about the 9th EFEPR school in Geneva of September, which I organized together with Daniel Klose and Gunnar Jeschke from ETH. We had a forum last evening. The students had the possibility to express all their ideas and give us feedback. We proposed some topics, and we were reading together the projected comments. We laughed together for more than an hour! If you are reading this and you also were at the school, possibly you have a smile thinking back about the most original comments: a podcast with Gunnar and Ilya discussing the spin and its applications, the Enrica's fan club and output of the DEER/PELDOR referendum. It was a joyful moment shared by the actual and new generation of EPR scientists.

#### With whom (historical person) would you like to meet?

I would like to chat with the 1903 Nobel prize in Physics Marie Curie, to feel the passion that inspired her groundbreaking work and to thank her to have been a role model for many female scientists who are now leaders in Academia. I would love to hear her suggestions for further advancing gender equality and empowering women to pursue careers in STEM.

#### When do you get your best ideas?

While discussing with my post docs, PhDs and students.

#### If you had just one month time for travelling - where would you go to?

Galápagos Islands.

#### Your idea of happiness.

Playing with my kid after a satisfying working day at the University.

Position: Full professor in Physical Chemistry at the University of Geneva (CH)

Awards: 2016 Ampere Prize for Young Investigators (Groupement Ampere)

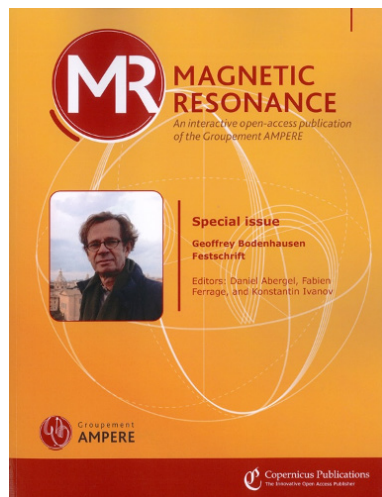
2011 IES Young Investigator Award (International EPR Society)

Homepage: <https://www.unige.ch/sciences/chifi/bordignon/home>

Education: Master in Chemistry in 1999, PhD in Chemistry in 2003 (University of Padova)

Interests: Archeology, traveling around the world, Art and Music

## Geoffrey Bodenhausen Festschrift in Magnetic Resonance



A special issue „Geoffrey Bodenhausen Festschrift“ has just been completed in the journal Magnetic Resonance to honor Geoffrey Bodenhausen on the occasion of his 70<sup>th</sup> birthday. This issue, featuring 28 articles by former students, post-docs, collaborators and friends of Geoffrey Bodenhausen, reflects the wide variety of fields of nuclear magnetic resonance he explored over the past decades. It covers methodological developments in solid-state and solution NMR, and fields as diverse as the dynamics of biological macromolecules in solution, problems related to spin physics, as well as drug binding. It also contains a series of contributions based on hyperpolarized NMR, a topic of choice for Geoffrey Bodenhausen over the past 15 years.

We wish to warmly thank all of the contributors to this Festschrift (whose names can be found in the Table of Content of the journal) for sharing some of their latest results in this special issue. We are also grateful to colleagues who have acted as reviewers and, in a number of cases, handling editors of these manuscripts. In addition, we would like to thank Matthias Ernst for his advice throughout the process. As most often with Magnetic Resonance, the editorial and reviewing experience has been very positive, with public reviews and comments leading to always useful and sometimes enlightening discussions accompanying each article.

Konstantin Ivanov had a central role in this special issue, suggesting the idea to us, Geoffrey, and the executive editors of Magnetic Resonance in early 2020. As with all his endeavors, his energy was essential to put the project into action. Sadly, Kostya's untimely death in 2021 prevented him from completing this work.



On the occasion of EUROMAR 2023 in Glasgow, several authors and friends gathered around Geoffrey Bodenhausen. Sami Jannin, Jan Korvink, Bob Griffin, Malcolm Levitt, Dennis Kurzbach, Tatyana Polenova, Bernhard Blümich, Alia Alia Matysik, Jörg Matysik, Geoffrey Bodenhausen, Gareth Morris, Galina Pavlovskaya, Fabien Ferrage, Jean-Paul Amoureux, Thomas Meersmann, Damien Jeannerat, Paul Vasos, Thomas Eykyn, Benno Meier, Matthias Ernst, Philippe Pelupessy, Bruno Kieffer, Steve Wimperis, Christian Bonhomme (Euromar Glasgow, 11th of July 2023)

Magnetic Resonance is an open-access online journal owned by the Groupement AMPERE and published by Copernicus Publications. The journal covers all areas of magnetic resonance (NMR, MRI, EPR, NQR) and is non-profit and entirely open access. Articles from the Geoffrey Bodenhausen Festschrift can be viewed here: [https://mr.copernicus.org/articles/special\\_issue1107.html](https://mr.copernicus.org/articles/special_issue1107.html)

*Daniel Abergel and Fabien Ferrage*

## Report:

### International Hyperpolarization Conference HYP23 September 24-28, 2023 at the University of Leipzig Campus Augustusplatz

<https://www.hyp23.org>

From September 24-28, 2023, the International Hyperpolarization Conference was held at the University of Leipzig on the Augustusplatz campus.

Scientific leadership was provided by the Local Organizing Committee consisting of:

Marina Bennati, Göttingen

Eike Brunner, Dresden

Dmitry Budker, Mainz

Björn Corzilius, Rostock

Muslim Dvoyashkin, Leipzig

Matthias Elgeti, Leipzig

Frank Engelke, Großpösna

Tanja Gulder, Leipzig

Jörg Matysik, Leipzig (responsible coordinator)

Jan Meijer, Leipzig

Georgeta Salvan, Chemnitz.

The organizers were the Faculties of Chemistry and Physics at the University of Leipzig. Patron was the European Magnetic Resonance Society Group AMPERE.

We are pleased to report that this conference was extremely successful with about 200 participants (including 58 students) from 20 countries. Not least, we can draw this conclusion thanks to the generous support of the DFG. Particular emphasis was placed on the inclusion of students through greatly reduced conference fees.

In addition to an excellent opening lecture on „Three-dimensional magnetic fields enhance SAB-RE efficiency“ by Prof. Warren Warren (Duke University, USA), the conference days were opened with excellent international plenary lectures, each followed by further invited lectures. This opportunity set the stage very well for the five round table sessions that followed each day and took place in parallel, which are a workshop format with impulse presentations and plenty of room for discussion and exchange of experiences. The best three talks from these rounds were selected by the participants and honored with a prize at the end of the conference.

On the physical background and significance of hyperpolarization: Hyperpolarization a key modern technology that extends the capabilities of magnetic resonance (nuclear magnetic resonance, electron spin resonance, and magnetic resonance imaging) and advances research and diagnostics in a variety of fields. It is a physical process in which the nuclear and electron spins in a material are manipulated so that the material has a significantly higher magnetization than it would under thermal equilibrium conditions. This condition is achieved by „pumping“ spins out of their thermal equilibrium state using physical processes or chemical reactions. This leads to a temporarily increased signal strength in, for example, nuclear magnetic resonance (NMR) and magnetic resonance imaging (MRI), the latter being an important imaging technique in medicine.

Hyperpolarization is important for several reasons:

1. increased sensitivity: hyperpolarization allows weak signals to be amplified, enabling the detection and study of samples with low concentration. This is especially important in medical imaging to obtain detailed images of tissues and organs.
2. faster imaging: the increased signal strength enables shorter measurement times in magnetic resonance imaging. This leads to faster examination results and thus to improved patient comfort.
3. hyperpolarized substances have opened the door to new applications in research and diagnostics. For example, they can be used to study tumor metabolism in more detail or to track the distribution of molecules in the brain.
4. Advances in materials research: Hyperpolarization techniques are also used in materials research to analyze the structure and properties of materials, which is important in the development of new materials.

Here some selected topics of the round-table rounds:

- Room Temperature Overhauser Dynamic Nuclear Polarization on Organic Semiconductors
- Importance of orientation control of polarizing agents in Triplet DNP
- Large <sup>31</sup>P-NMR enhancements in liquid state dynamic nuclear polarization
- Prospects for hyperpolarization at room temperature
- Transportable reservoir of nuclear polarization to enhance solution-state NMR signals.

The scientific program was flanked by tutorials on NV = nitrogen-vacancy centers, CIDNP = chemically induced dynamic nuclear polarization and SEOP = spin-exchange optical pumping, followed by a lab tour.

In addition to the support of the main sponsor DFG, we were pleased to welcome numerous international exhibitors: Bruker, Merck, Magritek, Hyperspin, CortecNet, Roth, Bridge12, Rototec-Spintec and Cryogenic.

As a cultural setting, the Welcome Reception at the Paulinum / Neues Augusteum of the University of Leipzig, a social evening at the Leipzig Zoo and city tours rounded off the conference.

An outlook was given on HYP26, which will be held at the Georg-August-University of Göttingen from September 6-10, 2026.



Here are the most important sources on the conference contents:

Programme:

<https://www.hyp23.org/programme.html>

Programme booklet:

[https://www.hyp23.org/assets/programm\\_pocket\\_hyp23\\_web.pdf](https://www.hyp23.org/assets/programm_pocket_hyp23_web.pdf)

Photographs:

<https://ogarit.jalbum.net/HYP%202023/>

## First announcement:



## Conference Announcement of MRFood 2024 Foz do Iguaçu-PR, Brazil 5-7 June 2024

Please save the dates in your calendars! We are very pleased to announce the meeting “**16<sup>th</sup> International Conference on the Applications of Magnetic Resonance in Food Science**” that will be hosted by the University of Latin America Integration-UNILA, in Foz do Iguaçu-PR, Brazil, from 05-07 June 2024, under auspices of the Groupement AMPERE and the Brazilian NMR Society (AUREMN).

The Conference themes are:

Molecular composition of food – FoodOmics, Food Chemistry, qNMR, Authenticity

Food processing – Extrusion, Digestion, Mild processing, Plant-based foods

Next NMR developments for Foods – Miniaturization, on/at-line measurements, low/mid field

Multiscale structure of Food – food physics, water state, structural anisotropy

We look forward to providing an excellent opportunity to network and share views and experiences with Magnetic Resonance experts from academia and industry.

**We look forward to welcoming you to Foz do Iguaçu-PR in Brazil**

Antonio Gilberto Ferreira (Chair of the Organizing Committee)

Anderson Pinheiro (AUREMN President)

More information at:

<https://eventos.galoa.com.br/mrfood-2024/page/3236-home?lang=en>

Contact Person: Antonio Gilbreto Ferreira (Giba)

[mrfood2024@gmail.com](mailto:mrfood2024@gmail.com)

## Minutes of the meeting of the AMPERE General Assembly

online, on Monday, September 4, 2023

### Members present:

Anja Böckmann, Matthias Ernst, Ales Mohoric, Anne Lesage, Bernhard Blümich, Christian Griesinger, Christina Thiele, Dariya Savchenko, Frode Rise, Giacomo Parigi, Guinevere Mathies, Hartmut Oschkinat, Igor Koptuyug, Ion Geru, Isabella Felli, Janez Plavec, Kay Saalwächter, Kristap Jaudzems, Lea Marti, Luisa Ciobanu, Lukas Trantirek, Magdalena Wenca, Manuel Etzkorn, Markus Ziegler, Miquel Pons, Moreno Lelli, Morgan Callon, Nikolai Kiishin, Patrick Giraudeau, Patrick van der Well, Paul Schanda, Paul Vasos, Sabine Haber-Pohlmeier, Sharon Ruthstaein, Thomas Vosegaard, Thomas Wiegand, Vladimir Sklenar, Wiktor Kozminski, Mariana Sardo, Olivier Lafon, Rainer Kerssebaum

### Agenda:

1. Approval of the agenda
2. Approval of the minutes of the AMPERE General Assembly Online August 30, 2022
3. Report on the state of the AMPERE Society (A. Böckmann)
4. Financial report and approval (M. Ernst)
5. Report on AMPERE Bureau elections (A. Böckmann)
6. AMPERE Committee elections (M. Ernst)
7. Varia
8. Closing remarks (A. Böckmann)

At 14:00 hours, Matthias Ernst opened the meeting.

**Ad 1.** The agenda was approved as is.

**Ad 2.** The minutes of the previous AMPERE General Assembly were approved unanimously.

**Ad 3.** A. Böckmann reminded the members that AMPERE is the umbrella organization for magnetic resonance in Europe. Before talking about our activities, she reminded the members of the colleagues from our field that passed away during the year. We will keep their memory in our minds.

AMPERE organizes EUROMAR which is the biggest conference in the field of magnetic resonance in Europe but also many smaller conferences and schools. Participants of AMPERE conferences and schools become automatically members of the Groupement AMPERE. Besides conferences, AMPERE also has a publication division that publishes Magnetic Resonance which is an open-access journal. Other activities include the Visual Encyclopedia of Magnetic Resonance (coordinated by Sebastian Hiller), and the AMPERE Cafe which is organized by Guinevere Mathies. The AMPERE Cafe offers

different forms of informal exchange of ideas and information. There is now also a committee that looks at the question of sustainability for our activities and is mainly concerned about the impact of conferences. Future plans include a searchable index of members.

**Ad 4.** M. Ernst presented the financial report of the past year and discussed key aspects. Finances of the society is continuing to be stable and the financial situation of all subdivisions remains stable and partially very positive. The society is overall in a very healthy state. The financial report was unanimously approved by the members present, with no abstentions.

**Ad 5.** The AMPERE Committee reelected Guinevere Mathies for another year as a young member of the AMPERE Bureau. In addition, Dariya Savchenko was elected as a second young member since Quentin Stern resigned for personal reasons. A. Böckmann introduced and welcomed Dariya Savchenko to the AMPERE Bureau. Also new in the AMPERE Bureau is Anne Lesage as the new chair of EUROMAR.

**Ad 6.** M. Ernst explained the current composition of the AMPERE Committee. The first four-year term of four members ends in 2023 (Kristaps Jaudzems, LV, Predag Novak, HR, Indrek Reile, EE, Paul Vasos, RO). All four are willing to serve a second term on the AMPERE Committee. The General Assembly reelected all four unanimously with one abstention. There is currently no representative for Hungary after the sudden death of Katalin Köver last spring. We are looking for proposal to fill this vacant seat.

**Ad 7.** Under Varia two points were discussed.

(i) The journal of the Groupement AMPERE „Magnetic Resonance“ is now indexed through Google Scholar, Scopus and will soon be listed in PubMedCentral. To be listed by Clarivate, we need a higher volume of articles. The Bureau and the editors ask all members to consider submitting their publications to Magnetic Resonance.

(ii) The initiative for more sustainable conferences was explained in more detail. The sustainability committee will look into the environmental footprint of conferences (travel, food, other activities). Of course, as long as we want in person conferences, travel is unavoidable but we can try to reduce the impact of conferences by the way we organize them. There was a question whether one could also look at the environmental footprint of doing MR research and how this compares to the impact of conferences. The sustainability committee would be very happy to discuss this if members are willing to look into this. Hartmut Oschkinat mentioned that there is a „green laboratory“ certificate.

**Ad 8.** M. Ernst thanked everyone for the participation in the meeting.

The meeting closed at 14:40.

Zürich / the internet, 4 September 2023

Minutes: Matthias Ernst

## Obituary

### Prof. Jean Jeener (1931-2023)

Jean Jeener, Emeritus professor at the Université libre de Bruxelles (ULB), has died on June 10 at the age of 92.

Jean spent most of his career at the ULB. He studied chemistry and physics, graduating in 1958 under the supervision of Ilya Prigogine, who was awarded the Nobel Prize in Chemistry in 1977. He then worked for two years at Harvard University on magnetic resonance with Nicolaas Bloembergen, also a Nobel laureate. In 1960 he returned to the ULB as professor of physics, a position he held until his retirement in 1996.

In his early years as a professor, Jean Jeener studied spin dynamics and thermodynamics. He introduced, as an example, the „Jeener-Broekaert“ pulse sequence to create dipolar order in solids. Jean is perhaps best known for the idea of 2D Fourier transform spectroscopy, which he presented at the 1971 AMPERE Summer School in Baško Polje. Although the manuscript was never formally published at the time, it is now available as a reprint<sup>[1]</sup>. The idea reached Zurich, more precisely the laboratory of Richard Ernst, through the very detailed and accurate notes of a student taking part of the summer school, Thomas Baumann, and led to the development of what was later called the COSY experiment<sup>[2]</sup>. In 1997, Jean had another important idea: the NOESY experiment. Ernst and Jeener decided to collaborate on this project and I got involved as a student. I was looking for a diploma thesis and applied to Richard Ernst. He gave me the topic of experimentally implementing what came to be called the NOESY experiment.<sup>[3]</sup> Ernst and Jeener had already written the theory section of the paper and it was my job to demonstrate their predictions experimentally. For incoherent transfer by chemical exchange the task was actually not too difficult and we got nice spectra right away. To see NOE cross peaks was very difficult because the samples we were looking at were small molecules with a fast correlation time and only a small NOE and we did not get clear results. While I had no personal contact with Jean during my graduate work, I later met him many times at conferences and, in a more informal setting, at Richard Ernst's Nobel Prize colloquium at Monte Verità, Ticino, Switzerland (see picture). He was always a great inspiration with his deep understanding of the physical basis of NMR and his original ideas. He was an easy-going, completely unpretentious person, easily recognizable because he always wore a hiking shirt. Later, his scientific curiosity led him to describe collective effects such as radiation damping and the dipolar field and to develop superoperator theory as well as a quantum description of the magnetic field interactions.

Jean Jeener had many links to AMPERE. Not only was his seminal idea of 2D spectroscopy presented in an AMPERE school but he obtained the 1992 AMPERE prize. The Russel-Varian Prize was presented to him at the 2002 EUROMAR meeting. He was also an Honorary Member of the AMPERE society, a distinction given only to a handful of people. In addition, he was the recipient of the 2001 ISMAR prize and of the 2023 Otto-Stern prize. He is Doctor Honoris Causa of ETH Zürich.

Jean, we miss you!

*Beat H. Meier*



Jean Jeener with the author of this contribution at the occasion of Richard Ernst's Nobel prize colloquium on Monte Verità, Ticino, Switzerland.

[1] J. Jeener, G. Alewaeters, Prog. Nucl. Magn. Reson. Spectrosc. 2016, 94–95, 75–80.

[2] W. Aue, E. Bartholdi, R. Ernst, J. Chem. Phys. 1976, 64, 2229.

[3] J. Jeener, B. H. Meier, P. Bachmann, R. R. Ernst, J. Chem. Phys. 1979, 71, 4546



## In Memoriam

### Professor Keneth John Packer FRS 1938 - 2021



Ken started his career in chemistry as a preparative inorganic chemist. His reasons for his choice to pursue chemistry remained vague to him however he attended Imperial College and moved from bottom of the year group to near the top by the end of his first degree. During his degree he experienced a major laboratory explosion in the laboratory of Professor Geoffrey Wilkinson FRS.

He chose to perform his PhD with Harry Emeléus FRS at Cambridge after advice from Jack Lewis FRS where he had his own explosion persuading him that he was not cut out to be a preparative chemist! Fortunately, he had made contact with Professor Norman Sheppard FRS who was working with NMR to analyse a compound he had made who put Ken in touch with his student, Robin Harris with whom Ken worked with closely and also later at UEA.

Ken then performed his post-doctoral NMR work with Earl Muetterties at Dupont Central Research Laboratories and moved as a lecturer to the University of East Anglia on its completion. Here, Ken's interest in applying pulsed NMR to a wide variety of problems meant that he had to build NMR systems as what he needed were not commercially available. One system he did purchase was an Ostroff and Waugh Magnion which was the main tool used by our group for determining relaxation phenomena.

After the seminal Pines, Gibby and Waugh paper, Ken and Robin, who had also moved to UEA, decided to create a joint research group combining their distinctive experience, skills and research interests to investigate high resolution solid state NMR. Again, the instrumentation was not available and, as with other practitioners of the time, needed

to build their own spectrometer, based on a Nicolet 1180 computer and 293A pulse programmer, including a variable temperature 90 MHz  $^1\text{H}/^{13}\text{C}$  double air bearing MAS probe for their Bruker BE38M electromagnet. A second instrument was made utilising an Oxford Instruments 200 MHz  $^1\text{H}$  superconducting magnet and a Bruker Andrew-Beams MAS double resonance MAS probe. The years that followed at UEA saw many successful projects including with industry. Ken and Robin both left UEA in the same year, 1984, Robin for Durham University and Ken for a new career at BP Research.

At BP Research, Ken had responsibility for Spectroscopy Branch within the Analytical Division and managed and developed his interests in NMR, MRI and other techniques such as IR/Raman, Electron Optics, fluorescence, including for oil exploration and others. Ken left BP Research to conclude his career at the University of Nottingham, working closely with Professor Mike Chesters, another colleague from UEA and saw Jeremy Titman join the faculty.

Ken's family was always important to him and during his retirement he took pleasure from his grandchildren. He was always involved in sports, gardening and had participated in repertoire theatre including reviews at the UEA School of Chemistry Christmas Parties, ballroom dancing amongst other things.

Being FRS, Ken has a biographical memoir which is now available to read available through the following link  
<https://royalsocietypublishing.org/doi/10.1098/rsbm.2022.0050>

*Paul Jonsen, 22<sup>nd</sup> September, 2023*

## 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.

### President

Anja Böckmann, CNRS/University of Lyon, France  
anja.bockmann@ibcp.fr

### Vice President

Janez Dolinšek, Jožef Stefan Institute, Slovenia  
jani.dolinsek@ijs.si

### Vice President

Patrick Giraudeau, Université de Nantes  
patrick.giraudeau@univ-nantes.fr

### Secretary General

Matthias Ernst, ETH Zurich, Switzerland,  
maer@nmr.phys.chem.ethz.ch

### Executive Secretary

Sebastian Hiller, University of Basel, Switzerland  
sebastian.hiller@unibas.ch

### Young Member

Guinevere Mathies, University Konstanz, Germany  
guinevere.mathies@uni-konstanz.de

### Young Member

Darya Svachenko, Institute of Physics of the CAS, Czech Republic  
dariyasvachenko@gmail.com

### EF-EPR

Gunnar Jeschke, ETH Zurich, Switzerland  
gieschke@ethz.ch

### SRMR

Luisa Ciobanu, CEA/Neurospin, France  
luisa.ciobanu@gmail.com

### MRPM

Yi-Qiao Song, Schlumberger-Doll Research, USA  
ysong@slb.com

### MR-Food

John van Duynhoven, Wageningen University & Research, The Netherlands  
john-van.duynhoven@unilever.com

### Hyperpolarisation

Geoffrey Bodenhausen, ENS, France,  
geoffrey.bodenhausen@ens.fr

### Publication Division

Gottfried Otting, Australian National University, Australia  
gottfried.otting@anu.edu.au

### Biological Solid State NMR

Hartmut Oschkinat, Leibniz Forschungsinstitut für Molekulare Pharmakologie, Germany  
oschkinat@fmp-berlin.de

### Euromar

Anne Lesage, Centre National de la Recherche Scientifique (CNRS), France  
anne.lesage@ens-lyon.fr

### Euromar Treasurer

Marc Baldus, Utrecht University, The Netherlands  
m.baldus@uu.nl

### Past President

Bernhard Blümich, RWTH Aachen University, Germany  
bluemich@itmc.rwth-aachen.de

### Honorary member

Beat Meier, ETH Zürich, Switzerland  
beme@nmr.phys.chem.ethz.ch

## AMPERE Committee

**Sharon Elizabeth Marie Ashbrook** (2016-2024) University of St. Andrews, United-Kingdom

**Enrica Bordignon** (2021-2025) University of Geneva, Switzerland

**Vladimir Chizhik** (2016-2024) University of St. Petersburg, Russia

**Peter Crowley** (2018-2026) National University of Ireland, Ireland

**Janez Dolinšek** (2016-2024) Institute Jozef Stefan, Slovenia

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**Ana Maria Pissarra Coelho Gil** (2018-2026) University of Aveiro, Portugal

**Patrick Giraudeau** (2016-2024) Université de Nantes, France

**Meghan Halse** (2022-2026) University of York, United Kingdom

**Klaartje Houben** (2021-2025) DSM, Delft, The Netherlands

**Kristaps Jaudzems** (2019-2027) University of Latvia, Latvia

**Vytautas Klimavičius** (2021-2025) Vilnius University, Lithuania

**Igor Komarov** (2022-2026) Taras Shevchenko National University of Kyiv, Ukraine

**Wiktoria Kozminski** (2016 - 2024) University of Warsaw, Poland

**Dennis Kurzbach** (2022-2026) University of Vienna, Austria

**Jose Martins** (2021-2025) Ghent University, Belgium

**Jörg Matysik** (2021 - 2025) University Leipzig, Germany

**Giulia Mollica** (2021-2025) ICR, Aix Marseille University, France

**Predrag Novak** (2019-2027) University of Zagreb, Croatia

**Giacomo Parigi** (2021-2025) University of Florence, Italy

**Annalisa Pastore** (2021-2025) King's College London, England

**Miquel Pons** (2016-2024) University of Barcelona, Spain

**Indrek Reile** (2019-2027) National Institute of Chemical Physics and Biophysics, Estonia

**Frode Rise** (2018-2026) University of Oslo, Norway

**Sharon Ruthstein** (2018-2026) Bar-Ilan University, Israel

**Mariana Isabel Coutinho Sardo** (2021-2025) University of Aveiro, Portugal

**Paul Schanda** (2021-2025) The Institute of Science and Technology, Austria

**George Spyroulias** (2017-2025) University of Patras, Greece

**Ville-Veikko Telkki** (2016-2024) University of Oulu, Finland

**Christina Thiele** (2016-2024) Technische Universität Darmstadt, Germany

**Daniel Topgaard** (2017-2025) Lund University, Sweden

**Lukáš Trantírek** (2021-2025) CEITEC - Central European Institute of Technology, Czech Republic

**Jadwiga Tritt-Goc** (2021-2025) Polish Academy of Sciences, Poland

**Patrick van der Wel** (2022-2026) University of Groningen, The Netherlands

**Paul Vasos** (2019-2027) Horia Hulubei Institute for Nuclear Physics (IFIN-HH), Romania

**Thomas Vosegaard** (2022-2026) Aarhus University, Denmark

## Honorary members

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**Kurt Wüthrich**, ETH Zürich, Switzerland

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## Future conferences

### Ampere Event 2024

MRFood 2024	Foz do Iguaçu, Brazil	June 5-7
Euromar 2024	Bilbao, Spain	June 30 to July 4



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