

BULLETIN DU GROUPEMENT

d'informations mutuelles

AMPERE



SE CONNAÎTRE, S'ENTENDRE, S'ENTRAIDER

January to March 2019

No. 274

Office: ETH Zürich, Laboratory of Physical Chemistry
8093 Zürich, Switzerland, www.ampere-society.org

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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**

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Publisher: Matthias Ernst, ETH Zurich, Switzerland

Editorial

Dear members of the Groupement AMPERE,

time is passing and the next EUROMAR is approaching fast. It will be held from August 25-30 in Berlin, Germany together with ISMAR and the Fachgruppe Magnetische Resonanz of the German Chemical Society. A very interesting program has been put together by the scientific committee. Registration is open under <https://www.euroismar2019.org/>. Besides EUROMAR, there are many more AMPERE conferences coming up as you can see from the various announcements in this Bulletin (see pages 20-26, 30).

I am sure many of you have been confronted with the topic of open-access publishing since many funding agencies in Europe require now that results are published open access. At the last meeting of the AMPERE Bureau, we have discussed a proposal that AMPERE should publish an open-access journal for the field of magnetic resonance. The idea is to have a high-quality open-access journal based on an interactive open review process that covers all areas of magnetic resonance. You can read more details about this discussion in the minutes of the last AMPERE Bureau meeting on page 10 of this Bulletin. The AMPERE Bureau would like to hear from you, the members of the Groupement AMPERE, what you think about such an open-access journal published by AMPERE. We realize that establishing a journal is a long process and can only be successful if many people in the community support it by submitting high-quality manuscripts and volunteering time for review and editorial support. Please send your emails with comments and ideas to comments@ampere-society.org. We will carefully read and discuss them in the AMPERE Bureau before a final decision will be made by the AMPERE Committee during the EUROMAR in Berlin.

I wish you a good spring semester and hope to see many of you at the AMPERE General Assembly at the EUROMAR in Berlin.



Matthias Ernst

Secretary General Groupement AMPERE

Portrait: Prof. Gunnar Jeschke

- why magnetic resonance?

During military service, I got involved with X-band and Q-band radar. After I had studied for one semester and attended his General Chemistry lecture, Gisbert Grossmann offered me to work in his solid-state NMR group. I felt at home immediately. Richard Ernst, had a full group when I applied as a doctoral student and pushed me to EPR.

- what is your favorite frequency?

Definitely in the Q band, around 34 GHz. This is a sweet spot for pulsed EPR. Sensitivity, resolution, availability of good microwave components, and convenient sample size all come together.

- what do you still not understand?

A lot. To give one concrete example, I have no clue why sensitivity of time-domain ENDOR is so much lower than that of polarization-transfer ENDOR.

- luckiest experiment you have ever done.

Measuring Cu(II)-nitroxide DEER with a frequency separation of 1.456 GHz in X band with a Bruker 3 mm split-ring resonator in 2002. No one thought that this would be possible. Flip angles were indeed awful, but thanks to a strong sample, it worked.

- what was the worst mistake you have made during your lab time?

Burning the coil of the only solid-state NMR probe of the TU Dresden group as a diploma student. It happened during a weekend session when I was experimenting with windowless WALTZ4 irradiation for broadband cross polarization.

- most memorable conference story

Meeting Missis Moose at her breakfast during a morning run in Snowbird, being jinxed by her and then having to wait in front of my hotel room for an hour. Only then staff managed to overcome the jinx on the door lock.

- with whom (historical person) would you like to meet?

Leonardo da Vinci. I'd have to learn Italian, though. Once in the Italy of his time, I would cheat and meet other renaissance people, too.



- when do you get your best ideas?

Sometimes indeed in the proverbial shower, but at least as often in the mountains during hiking or cycling.

- if you had just one month time for travelling - where would you go?
To Peru with a bicycle.

- your idea of happiness.

Being needed and being able to respond to it.

Position: Professor for Electron Spin Resonance, ETH Zurich
Awards: 2009 Bruker Prize of the ESR Group of the Royal Society of Chemistry; 2014 International Zavoisky Award; 2017 IES Silver Medal for Instrumentation
Homepage: <http://www.epr.ethz.ch/>
Education: Diploma in Chemistry, TU Dresden, 1992; Dr. sc., ETH Zürich, 1996; Habilitation, Johannes Gutenberg University Mainz, 2002
Interests: cycling, trail running, writing

Report: Annual International Conference “Modern Development of Magnetic Resonance” (MDMR2018)

September 24-28, 2018
Kazan, Russia

In September 2018, Kazan welcomed 122 participants from Austria, Belarus, Germany, Israel, Japan, Kazakhstan, Russia, Slovenia, Sweden, USA, and Turkey in order to discuss achievements and new tendencies in applications of magnetic resonance within the Annual International Conference “Modern Development of Magnetic Resonance 2018” dated to the Zavoisky Award 2018 ceremony.



From left to right: Vadim Khomenko, Vice-President of the Academy of Sciences of the Republic of Tatarstan, Aleksei Kalachev, Deputy Director of the Kazan Scientific Center of the Russian Academy of Sciences, Andrei Pominov, Deputy Minister of the Education and Science of the Republic of Tatarstan, David Britt, Zavoisky Awardee 2018, and Kev Salikhov, Chairman of the Zavoisky Award Selection Committee

Professor R. David Britt (University of California Davis, USA) got the Zavoisky Award 2018. He is distinguished for the achievements in pioneering advanced EPR methodologies and their implementation in the study of biologically significant metalloenzymes like the oxygen-evolving complex in photosynthesis.

The conference was organized by the Zavoisky Physical-Technical Institute of the Russian Academy of Sciences and the Kazan Federal University under the auspices of the Groupement AMPERE.

It included ten plenary lectures, 45 invited and oral talks, and seventy posters within the following sections: theory of magnetic resonance; low-dimensional systems and nano-systems; electron spin based methods for electronic and spatial structure determination in physics, chemistry and biology; molecular magnets and liquid crystals; spin-based information processing; strongly correlated electron systems; chemical and biological systems; medical physics; other applications of magnetic resonance; modern methods of magnetic resonance; perspective of magnetic resonance in science and spin technology.

The Zavoisky lecture of David Britt “Solar fuels: nature’s approach” was devoted to new results on the application of EPR methods to study the process of electron transfer in photosynthetic systems.

Klaus Moebius in his lecture «High-field EPR studies of water-protein hydrogen bond interactions and their role for biological function” presented the current state of the knowledge of molecular mechanisms, which allow the reaction centers of some plants to withstand very long droughts and adverse temperatures. In these studies, EPR methods and optical methods make it possible to follow the structure and dynamics of the reaction center of photosynthesis.

The plenary lectures of Sergey Demishev “ESR in strongly correlated topological insulator SmB₆: Built-in mechanism of time reversal symmetry breaking and anomalous spin relaxation rate” and Yuri Kusraev “Optical orientation of magnetic polarons in diluted magnetic semiconductors” were devoted to the use of EPR for the study of solids.

In connection with the development of quantum computing, the studies of spin dynamics (and electrons and nuclei), the search for spin systems, which are promising from the point of view of their use in quantum computing and quantum computer science, are relevant. A number of works on NV centers and defect centers in silicon carbide were devoted to this problem.

The conference revealed the continuing interest in the study of the dynamic polarization of nuclear spins. It is worth to note the lecture of Aleksandra Yurkovskaya "Light-induced nuclear hyperpolarization as a sensitive tool for detection of illusive radicals of biomolecules". The report "Peculiar features of the spectrum saturation effect when the spectral diffusion operates" by K. Salikhov demonstrated that the EPR theory continues to evolve.

The conference manifested the enormous variety of fruitful applications of magnetic resonance in diverse fields of science. The financial support of the Government of the Republic of Tatarstan, the Russian Foundation for Basic Research, Bruker BioSpin, ADANI Ltd., and Promenergolab Ltd. is gratefully appreciated.

Kev M. Salikhov

Co-chairman of the MDMR 2018 conference

Violeta K. Voronkova

Scientific Secretary of the MDMR 2018 conference

Report: Ampere Biological Solid-State NMR School 2018

Universitat de les Illes Balears, Palma de Mallorca, Spain.

October 21-26 2018

Scientific committee: Anja Böckmann, Matthias Ernst, Beat Meier, Hartmut Oschkinat

Local committee: Rosa Gomila Ribas, Gabriel Martorell, Sebastian Albertí

Webpage: <https://biosolidnmr-school.org>

The AMPERE biological solid-state NMR school aims at providing an advanced course in biological solid-state NMR, teaching PhD students and young researchers a broad range of topics required to understand and modify the modern multi-dimensional solid-state NMR experiments used in biological applications and material sciences. Topics included in the course are: Hamiltonians in NMR, isotropic and anisotropic interactions, tensor description of NMR, spherical tensors and tensor rotations, time-dependent Hamiltonians, average Hamiltonian and Floquet theory, principles of recoupling and decoupling under MAS, spin-dynamic simulations using SIMPSON, basic principles and applications of MAS DNP, EPR and paramagnetic NMR, characterization of dynamic processes, protocols for the assignment of protein spectra and protein structure determination, the basics of solid-state NMR instrumentation as well as sample preparation and isotope-labelling techniques.

The school has been initiated 2006 by Hartmut Oschkinat and Beat Meier joined by local organizers. In 2015 the biological solid-state NMR school has become a subdivision of AMPERE, in order to create a solid basis for the future organization of the school and to ensure optimal handling of resources. The subdivision "Biological solid-state NMR" is run by a collegial board presently constituted by Hartmut Oschkinat, Beat Meier, Anja Böckmann and Matthias Ernst, who has been in charge of the organization of the school 2018.



Students at one of the lectures (photo: Matthias Ernst)

Following the successful tradition of earlier meetings in Germany (2006, 2014), Denmark (2008), the Netherlands (2010), Czech Republic (2012) and Spain (2016), the AMPERE biological solid-state NMR school took place this year for the second time at the Universitat de les Illes Balears (UIB) in Palma de Mallorca, Spain.

The school was organized as eight half-day sessions with 19 lessons, nine exercise sessions, four question hours and two poster sessions.

Lectures were held from scientists from universities in Germany, Switzerland, France, the Netherlands, Denmark and USA on both theory and applications of NMR and also of DNP. In addition, Sebastian Wegner from Bruker gave a lecture about NMR hardware.

The special guests of the school 2018, Enrica Bordignon from the Ruhr University in Bochum and Bettina Böttcher from the University of Würzburg, presented methods for structure determination which are alternative to NMR, namely EPR and cryo-electron microscopy, respectively.

The course is very intense and it is obvious that not all students are able to fully follow all topics. However, we think it is important to show the students what can be done in modern NMR so that they can go back at a later point and read up more about issues that are important in their research.

This year, the school has attracted 34 students from universities and research centers all over Europe: Denmark, France, Germany, Italy, Russia, Spain, Switzerland, The Netherlands and UK. In addition, students from Israel, the United States and Colombia attended the school. We are happy to notice that 20 of the 34 students were young women, indicating an increasing interest for solid-state NMR among female students.

There was significantly more interest than places available and ten students had to be turned down. The feedback from the students after the school was very encouraging. Positive points mentioned included among other the following issues: the location of the school, the possibility to meet PhD students who work on similar problems in other labs, the broad range of topics covered in the school, the possibility to talk to experienced scientists from different groups and with different expertise. One shortcoming mentioned was that there was not enough time for the exercises but unfortunately the program of the school is already quite packed and more exercise hours would require eliminating some other topics.



Students and Beat Meier at practicals (photo M. Ernst)

Students and Beat Meier at practicals (photo M. Ernst) discussed accompanied by refreshments and a selection of local wines from Can Majoral denomination of origin and beers from Soller.

In the spirit of the biological solid-state NMR school ample time was reserved for social gathering and scientific interactions, in order to allow for close contacts between the school attendees and the speakers. In particular we had nine practicals with exercises, four question hours and two poster sessions. Posters were

The school started on Sunday evening with a social gathering and dinner at a typical tapas restaurant in Palma. On Wednesday afternoon teachers and students had the opportunity to visit Palma and its beautiful cathedral and explore the island and its beaches.

The school was sponsored by Bruker, LOGS, Merck, QOneTec, Universitat de les Illes Balears (UIB), EBSA, AMPERE and iNEXT. We would like to take the opportunity to thank again our generous sponsors and the wonderful local committee who made the organisation of the school possible.

The next AMPERE biological solid-state NMR school in 2020 will be organized by Hartmut Oschkinat. The location of the next school is not yet determined.

Minutes of the meeting of the Ampere Bureau

Zurich, on March 7th, 2019

Members present (10):

B. Blümich, G. Bodenhausen, M. Britton, J. Dolinsek, M. Ernst, S. Hiller, S. Jurga, B.H. Meier, H. Oschkinat, T. Prisner

Video conferencing (6):

S. van Doorslaer, J. van Duynhoven, J.-N. Dumez, A. Kentgens, G. Otting (guest), Y.-Q. Song

Excused (4):

A. Böckmann, P. Giraudeau, H.-W. Spiess, V. Chizhik

Agenda:

1. Approval of the agenda.
2. Approval of the minutes of the AMPERE Bureau meeting in Nantes July 3, 2018
3. Report on the state of the AMPERE Society (B. Blümich)
4. Financial Report (M. Ernst)
5. Report EUROMAR Division (T. Prisner)
6. Financial report EUROMAR division (A. Kentgens)
7. Report on Andrew Prizes and allocation of funds to support meetings (B. H. Meier)
8. Final reports past meetings:
 - SPINUS 2018, St. Petersburg (Russia), (M. Ernst)
 - AMPERE NMR School 2018, Zakopane (Poland), (S. Jurga)
 - EUROMAR 2018 Nantes (France), (T. Prisner)
 - HYP 2018, Southampton (UK), (G. Bodenhausen)
 - MR Food 2018, Rennes (France), (J. van Duynhoven)
 - AMPERE Biological SSNMR School, Mallorca (Spain), (M. Ernst)
9. Future meetings 2019
 - EUROISMAR 2019, Berlin (Germany), August 25-30 (H. Oschkinat)
 - SPINUS 2019, St. Petersburg (Russia), April 1-5 (M. Ernst)
 - AMPERE NMR School, Zakopane (Poland) June 23-29 (S. Jurga)
 - ICMRM 2019, Paris (France) August 18-22 (M. Britton)

- Alpine Conference 2019, Chamonix (France) September 15-19 (J.-N. Dumez)

10. Proposal for an open-access magnetic-resonance journal (G. Bodenhausen, G. Otting)
11. AMPERE School account (M. Ernst)
12. Varia
13. Date of next meeting

At 11:00 hours, Matthias Ernst opened the meeting.

Ad 1.

The agenda was approved as is.

Ad 2.

The minutes of the AMPERE Bureau were approved unanimously.

Ad 3.

B. Blümich reported with sadness that Stefano Caldarelli, who was one of the founders of the Alpine Conference, passed away. An obituary written by Lyndon Emsley was printed in the last Bulletin and part of it was read out.

B. Blümich reported the following changes to the Bureau's personnel structure: Gunnar Jeschke stepped down; Matthias Ernst became Secretary General, and Sebastian Hiller became executive secretary as of this meeting. Thanks were expressed to Gunnar Jeschke, Matthias Ernst and Kristina Comiotto.

B. Blümich expresses special recognition to Patrick Giraudeau and his team for organizing the EUROMAR 2018 in Nantes. Five conferences are upcoming for 2019 and three for 2020. One issue to be addressed will be the turnover of the AMPERE committee, with the need to balance its composition in terms of gender and topics. M. Ernst mentioned that the president's election will take place in the summer of 2020. B. Blümich will step down as of 2020.

Ad 4.

M. Ernst presented the financial report. Finances were stable over the years, and revenues are equally high as expenses. Subdivisions had

healthy finances as well. The Ampere society possessed financial reserves in reasonable amounts (~170'000 CHF including Andrew accounts).

Ad 5.

Thomas Prisner reported on the EUROMAR division. Future EUROMARs will take place 2020 in Bilbao, organized by Oscar Millet, and 2021 in Slovenia, organized by Janez Plavec and Janez Dolinsek, likely at the Adriatic coast. Future interest beyond 2021 comes from John Parkinson, Strathclyde; Mark Baldus, Utrecht; Göran Karlson, Aarhus, and Thomas Vosegaard, Sweden. New BOT members are H. Oschkinat, A. Kentgens, A. Webb, and V. Kozminski. EUROMAR domains were registered for the coming years 2020-2022 but no trademark was registered for the name EUROMAR. EUROMAR is collecting the Ampere membership fees, which amounted to 12'000 € in 2018. Importantly, for the EUROISMAR 2019 only half of the participant fees will go to AMPERE, because the other half goes to ISMAR. Since it is expected that more people will join, half of the fees should be fine.

Ad 6.

A. Kentgens reported on the finances of the EUROMAR division. Finances were healthy and stable. Since EUROMAR 2018 was a financial success, no major costs occurred. The two accounts (EUR and CHF) at ZKB will be merged into one.

Ad 7.

B.H. Meier reported on the Andrew Prizes and the funds to support meetings. The AMPERE NMR School was supported with 4000 €, and the MR Food Conference with 2000 €. For the next year, the Bureau has received so far only one 'small' application for 2000 €; the AMPERE school in Zakopane, Poland, requested 5000 € and got approved 4000 €. It seems that the subdivisions are not always aware that they can ask for money. Beat will proactively inform them.

The Ampere prize 2018, which is a biannual prize, went to Katja Petzold at the EUROMAR Nantes. The Raymond Andrew prize 2018 went to Giuliana Fusco. So far, the Bureau has only received a single application for the next Andrew prize. This is low in comparison to 11 nominations last year. M. Ernst will make people aware of the possibility for nomination by email and will prolong the submission deadline by 2 weeks, also because the EUROMAR 2019 is later than usual. This was approved.

Ad 8.

Final reports of past meetings:

The SPINUS conference is an annual event with the scope to cover all kinds of NMR in chemistry, physics and related fields. It took place in St. Petersburg in April 2018. 151 participants from 14 countries attended the conference. The report was given by M. Ernst on behalf of V. Chizhik.

Stefan Jurga gave a report on the NMR school in Zakopane (Poland). Taking place in June, the event was located in Zakopane, a resort town in southern Poland, at the base of the Tatras Mountains. The conference centered around the topics of NMR relaxation, novel techniques, and solid-state NMR, with 84 people from 19 countries attending. Accommodation was in a nice hotel. As a tradition, the president of the AMPERE society gives the opening lecture. For 2019, there will be a similar conference setup, but with new speakers.

The report of the EUROMAR in Nantes was presented by T. Prisner on behalf of P. Girardeau, who could unfortunately not be present today. The conference was a huge success. There were 723 participants from 36 countries attending, more than 200 of them students. There were 13 invited plenary talks, 42 invited lectures and 2 tutorials. Of the 522 abstracts submitted from participants, 63 were selected for oral presentation, and 405 abstracts for the poster show. The Richard Ernst prize went to Claudio Luchinat, the AMPERE prize to Katja Petzold, and the Andrew prize was awarded to Giuliana Fusco. 28 exhibiting companies were present at the conference. Bruker was the Gold sponsor, and there were 4 more Silver and 3 Bronze sponsors. The conference was presented on the internet connected to the new media (Facebook, Twitter); followers were kept and will be handed over to the next EUROMAR conference, which is a very attractive concept. The total of expenses was 390'000 €, and the generated income amounted to 410'000 €. 10'000 € went back to the EUROMAR Board. Overall, the conference was a great success.

The report on the HYP 2018 in Southampton, UK, was presented by G. Bodenhausen. The conference took place at a nice venue. There were 200 participants, and many discussions. All in all, it was a very successful, balanced meeting, with no costs to AMPERE. The next meeting will take place in Lyon in 2020.

J. van Duynhoven reported on the MR Food 2018 meeting which took place in Rennes (France). There were 122 participants, originating from 18 countries. These were a bit fewer attendants than the usual 140, which was ascribed to the closeness in date to EUROMAR. There were 7 invited speakers, 28 oral presentations, and 42 posters. The financial result was slightly negative. A special issue of Mag Res Chem was published with 20+ peer-reviewed papers. The next meeting will be 2020 in Aarhus, Denmark, organized by H.C. Bertram and colleagues.

M. Ernst reported on the SSNMR school in Mallorca which took place in October 2018 in Mallorca. The financial impact was rather low, as lecturers paid their own expenses. The registration fee amounts to 80 €. There were 34 students and 12 teachers participating, with 10 rejected applications. The occurrence of rejections was regretted by the organizers. These were due only to the lack of a sufficiently large lecture hall. Previous versions of the conference had fewer attendants and the organizers did not expect such a large turnout. Costs summed up to 10'000 €, and revenues to 14'000 €; the rest will be kept for unforeseen expenses. The next meeting will happen in 2020 and be organized by H. Oschkinat. Students were accepted on a first come-first serve basis.

Ad 9.

Reports of planned meetings in 2019:

EUROISMAR Berlin was reported upon by H. Oschkinat. The conference date was set to August 25–30, 2019, and the venue will be the Henry Ford Building at the FU Berlin in Berlin Dahlem, southwest of Berlin center. It is planned that 700–1200 persons will attend, with an upper limit of 1300. The big lecture hall will seat 1200 people, and there are four additional smaller lecture halls. All is well planned and set up. A project manager has been hired. 800–900 posters are expected. These will be split into two halves. Only one half is shown at a time, with 2 poster sessions on each half. The budget is planned with 620'000 € of income and 610'000 € of expenses. Overall, it is aimed at a surplus of 25'000 €. All seems very well organized by Hartmut and his team.

SPINUS 2019: M. Ernst reported on behalf of V. Chizhik. The conference is planned in a similar way as before, with up to 200 participants. The registration fee is set to 175 € for regular participants and to 85 € for young scientists up to PhD. So far, there are 142 registrations, 34 from other countries.

Planning report on AMPERE NMR School Zakopane (Poland) was kept minimal here, since it was already included in point 8 by S. Jurga.

ICMRM 2019 was presented by Melanie Britton. The website is already up and running. Application deadline will be end of April. The invited speakers have confirmed their participation. An important issue is the gender balance of speakers and participants. 35% female are envisaged. This has been reached among the speakers. A future meeting in 2021 in Malmö will be organized by Daniel Topgaard.

The Alpine conference Chamonix was presented by Jean-Nicolas Dumez. The main focus lies on ssNMR, but also EPR and MRI in solids. Registration has opened. The number of participants is limited to 200. A new prize - the Stefano Caldarelli - prize will be introduced.

A brief outlook on MRPM 2020 was presented by Y.Q. Song.

EFEPR 2019 was presented by Sabine van Dorslaer. It will take place in September in Bratislava (Slovakia).

An EPR school will take place in November 2019 in Brno, Czech Republic.

Ad 10.

G. Bodenhausen and G. Otting proposed the creation of a new journal. To this end, they suggested to create a new division of the AMPERE society, called Publication Division. The Publication Division should as a general principle be composed of the executive editors of all journals of the society. This would be just one journal to start with but could in principle be more journal in some future.

The new journal with the title "Open Magnetic Resonance" would comprise up to 12 Advisory Editors, up to 6 Executive Editors and a larger array (30+) of topic editors. The new journal is planned as an open access journal, with the copyrights staying with the authors.

Several people have already accepted as advisory or executive editors. Also, 34 topical editors have so far agreed and several more have been invited. The journal will be operated by the Copernicus Verlag Göttingen, which has several similar journals established in other scientific areas. A page charge applies to authors and a small royalty per page will be paid from the Copernicus Verlag to the AMPERE Society for the societal support. Editors will not be paid and should not travel on the cost of the journal. The review process will be an interactive, open, two-stage review procedure.

Papers will be uploaded to a publicly visible archive upon submission and after passing an initial fundamental quality control. They will stay publicly accessible during and after the entire review process. In this archive, the public is invited to comment during the review process.

A longer discussion emerged. The new journal will at least in part be a direct competitor to existing journals (JMR, JBNMR, etc) and will compete for the same kind of manuscripts. Lucio Frydman, editor of JMR, has expressed concerns, because of dilution effects. It was deemed necessary that a detailed risks analysis will be made for the risks of the AMPERE society, including the responsibilities in the case of plagiarism and fraud. A business plan needs to be made. The benefit for the society from creating the journal would be of a financial nature, as well as an increased visibility of the society.

M. Ernst said that the long lag phase to get the journal started and establish an impact factor (2-3 years) will pose a problem. For M. Ernst and others it appeared difficult to estimate the support of the community. It was unclear whether the people that agreed as topical editors would submit papers to the journal themselves. The question was raised what would happen if the journal did not reach a high impact factor. This was not deemed likely by the proposers, but it was agreed that this case may lead to an abandonment of the journal.

B. Blümich proposed to establish a working group that resolves all remaining issues (risk analysis, business plan) and informs the committee prior to the vote. G. Otting and G. Bodenhausen will be this committee, plus volunteers to be potentially recruited by them. They will prepare the necessary documents and present in Berlin. There shall be some review papers organized to increase the publication's impact. Special issues could also be a tool to raise impact factor.

The Bureau agreed that the decision whether the society supports the new journal shall be made by the AMPERE Committee at EUROISMAR 2019.

Ad 11.

Through the unfortunate passing of S. Calderelli, some financial means (<2000 CHF) remain left over from NMR schools. This amount will be given to the NMR school in Mallorca with the idea to look for larger rooms to be able to integrate more people.

Ad 12.

None

Ad 13.

Next meetings alongside the EUROMAR 2019: The Bureau will meet on Monday evening, the Committee on Tuesday for lunch, and the General Assembly on Tuesday evening. Envisaged date of next spring meeting of the AMPERE Bureau: March 19, 2020 in Zurich.

The meeting was closed at 14:56.

Zürich, 07 March 2019

Protocol: Sebastian Hiller

Financial Statement of the Groupement Ampere and Subdivisions

Period from June 15. 2018 to February 28. 2019

	Balance on February 28. 2018	Balance on June 15. 2018	Membership Fees / Registration Payments	Donations/ Conference support	Conferences Grants / Travelgrants/ Membership Fee paid to Ampere	Conference Sponsoring
Groupement Ampere						
Ampere (CHF)	15'897.75	13'727.20	2735			
Ampere (Euro)	31'319.94	30'163.42	15'918.82		17'500.00	
Andrew (CHF)	26'512.89	26'895.74			576.73	
Andrew Depot (CHF)	92'837.28	92'740.44				
Subdivisions						
NMR School (Euro)	1'910.27	1'898.27				
Biol. Solid State (Euro)	10'679.76	15'140.45	750.12		9'019.69	
EPR (CHF)	7'423.80	7'423.80				
Food NMR (CHF)	3'651.95	3'651.95			2'735.00	
MRPM (CHF)	31'321.95	31'321.95				
SMRM (CHF)	47'319.48	47'319.48				
Hyp (CHF)	7'341.40	7'341.40				
Euomar						
Euomar (CHF)	71'622.89	71'622.89				
Euomar (Euro)	41'629.30	41'619.11			10'000.00	

Conference Surplus	Administration Bulletin print Web and Bureau Meetings	Bank Charges / Depot Charges/ Account Closing/ Div./Losses	Bank Interests Account carry over, Dividends	Gains on Value Paper	Balance on February 28. 2019
	1'138.85	12.00			15'311.35
		61.70			28'520.54
		323.00			26'009.26
		153.33			92'587.11
		33.23			1'865.04
		42.53			6'828.35
			1.85		7'425.65
			0.85		917.80
			7.85		31'329.80
			11.40		47'330.88
			1.85		7'343.25
		12.00			71'610.89
10'000.00	317.34	31.85			41'270.19

Alpine Conference

on Magnetic Resonance in Solids
15–19 September 2019 Chamonix-Mont-Blanc, France

Dear Colleagues,

We cordially invite you to participate and contribute to the Alpine “Chamonix” Conference on Magnetic Resonance in Solids, that will take place in Chamonix Mont-Blanc, France, on 15–19 September 2019.

Aims and scope of the meeting

The Alpine conference is a high-level international forum for the discussion of recent developments and applications in the field of magnetic resonance in solids. The conference focuses on novel concepts, methods and instrumentation, as well as applications in fields including physics, chemistry, biology and materials science. Beyond its original and still core focus on solid-state NMR, the Alpine Conference will in 2019 welcome contributions from EPR and MRI in solids.

Program

The program of the conference will consist of plenary lectures, contributed oral communications, and roundtable sessions. Round table sessions will provide opportunities for discussions in small groups following a short pitch talk on contributed work. A new perspective session will provide personal views on selected topics and questions of the field.

The following speakers will give plenary lectures:

V. Agarwal (TIFR Hyderabad)
G. Boebinger (National High Magnetic Field Laboratory)
B. Chmelka (UC Santa Barbara)
A. Jerschow (New York University)
A. Lesage (CRMN Lyon)
A. McDermott (Columbia University)
T. Prisner (Goethe University Frankfurt)
B. Reif (Technical University of Munich)
M. Rosay (Bruker Biospin)

Registration

Registration will open in March 2019 and the deadline for registration is May 1st, 2019. Registration will be limited to around 200 participants. A number of student grants will be available.

Venue and Accommodation

The conference takes place at the Le Majestic, a beautiful and welcoming Belle Epoque palace, in Chamonix at the feet of Mont-Blanc. Three lunches (Mon – Wed) and two dinners (Sun and Tue) will also be served at le Majestic.

Alpine Conference

on Magnetic Resonance in Solids
15–19 September 2019 Chamonix-Mont-Blanc, France

Chamonix Mont-Blanc is a charming lively town at the heart of breathtaking Alps, about 1 hour drive from Geneva Airport and about 2 hours drive from Lyon. Chamonix caters both to mountain enthusiasts who are into pushing their physical limits and being one with nature, and city dwellers whose idea of fun is more about enjoying a glass of wine and a spectacular view without breaking a sweat.

A number of hotels with different range of comfort and affordability will be bookable at the registration at prices negotiated with Office du Tourisme de Chamonix. All of the hotels are within maximum 15 minutes walking distance from the conference center, Le Majestic.

Looking forward to seeing you in Chamonix!

Scientific Committee

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Arno Kentgens (Radboud University)
Tatyana Polenova (University of Delaware)

Organizing Committee

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Michal Leskes (Weizmann Institute)
Józef Lewandowski (University of Warwick)
Charlotte Martineau-Corcus (Université de Versailles, CNRS Orléans)
Paul Schanda (Institut de Biologie Structurale)

Contact:

Email: contact@alpine-conference.org | Web: www.alpine-conference.org
Facebook: www.facebook.com/alpine.conference | Twitter: [@alpineconferen1](https://twitter.com/alpineconferen1)

Under the auspices of the Groupement Ampere and the International Society of Magnetic Resonance

ICMRM 2019

The 15th International Conference on Magnetic Resonance Microscopy

Speakers

Stephen Blackband, USA
 Bernhard Blümich, Germany
 Dmitry Budker, Germany
 Simon Duckett, England
 Cornelius Faber, Germany
 Eiichi Fukushima, USA
 David Hoult, Canada
 Shaoying Huang, Singapore
 Miki Komlosh, USA
 Ben Newling, Canada
 Lionel Quettier, France
 Elodie Salager, France
 Andy Sederman, England
 Joseph Seymour, USA
 Lawrence Wald, USA
 Kathryn Washburn, Norway

18-22 August 2019
 Paris, France

icmm2019.sciencesconf.org/

Organizers

Luisa Ciobanu, Chair
 Dimitris Sakellariou, Chair
 Patrick Berthault
 Celine Boutin
 Gabrielle Fournet
 Alexandra Petiet
 Vincent Sarou-Kanian



Dear colleagues and friends,

it is our great pleasure to cordially invite you to the XIth Conference of the European Federation of EPR groups (EFEPR), which will be held in September 2019 in Bratislava (Slovakia). EFEPR is a non-formal organization which gathers 14 national groups from European and extra-European Countries. EFEPR periodically organizes an international conference that covers the main aspects of electron paramagnetic resonance spectroscopy, including new experimental and theoretical methodologies. The International EPR (ESR) Society (IES) will organize their IES Annual General Meeting within the conference. IES has been an internationally active group since its inception in 1989. The

Society aims to stimulate scientific development of electron paramagnetic resonance EPR (ESR) spectroscopy, facilitate communication among EPR researchers, and encourage the use of EPR techniques across a wide variety of research fields.

Key Dates and Information

April 1st 2019:
 Opening of Abstract submission
 May 1st 2019:
 Early bird registration fee deadline

Instructions for abstract submission and all the information concerning the conference are available at the official website:
efepr2019.conference.fchpt.stuba.sk



Conference Topics

- EPR of organic and inorganic systems
- Advanced materials
- Biophysical, biochemical and biomedical applications
- DNP and emerging applications of EPR
- Emerging techniques and methodologies
- EPR Imaging and Microscopy
- Spin Trapping and Spin Labeling Chemistry
- Theoretical Chemistry and EPR



The Conference will consist of 7 plenary lectures, 7 keynotes, oral presentations and two poster sessions. The poster competition will be organized to award the best posters presented by PhD. students. IES public General Assembly will be held within the conference.

Plenary Speakers

Christiane Timmel, University of Oxford, UK
Mario Chiesa, University of Torino, IT
David Britt, UC Davis, US
Olav Schiemann, University of Bonn, DE
Roberta Sessoli, University of Florence, IT
Vladimir Malkin, Slovak Academy of Sciences, SK

Keynotes

Matvey Fedin, Russian Academy of Sciences, Novosibirsk, RU
Jens Anders, University of Stuttgart, DE
Maxie Roessler, Queen Mary University, London, UK
Marilena Di Valentin, University of Padova, IT
Helene Bolvin, Université Paul Sabatier, Toulouse, FR
Benesh Joseph, Goethe University, Frankfurt, DE
Alexey Popov, IFW Dresden, DE



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George Mitrikas, NCSR Demokritos, Athens, GR
David Collison, The University of Manchester, UK
Zbigniew Sojka, Jagiellonian University, Krakow, PL

Registration Fee 2019

	before 1 st May 2019	after 1 st May 2019
Academics	450 €	550 €
Students	350 €	450 €
Industrials	1000 €	1500 €
Conference dinner	50 €	

Location

Bratislava is the only capital in the world located on the border of three sovereign states – Slovakia, Austria and Hungary. 65 km far from Vienna, 200 km from Budapest and 330 km from Prague. The largest airport in Central Europe, Vienna International, is 50 minutes away from Bratislava city center by car/bus, and the Bratislava Airport of M. R. Štefánik only 15 minutes away. The conference will be located near the city center, close to the hotels and main tourist attractions.

www.visitbratislava.com



Welcome to 8th EFEPR School event which will be held on 18-25 November 2019 in Brno, Czech Republic.

The advanced EPR School is an initiative of the European Federation of EPR groups (EFEPR) to ensure the continuation of the successful development of EPR techniques and their applications. Lectures and tutorials by top researchers in the field provide close coupling between theoretical background and the experimental techniques.



EPR School Topics

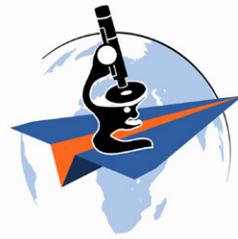
DNP • ENDOR • EPR Instrumentation • ESEEM • HYSCORE • EPR imaging • transient EPR • ELDOR detected NMR • fundamental theory of EPR • quantum mechanics • MW technology – generation/ detection of MW • Pulsed EPR • DEER tutorials • Quantum chemical calculations • ORCA tutorials • Relaxation processes • Multi Frequency EPR and transition metal complexes • High Frequency EPR • materials • surfaces • powders • EasySpin • EasySpin tutorials • Rapid Scan EPR • biological applications of EPR • ODMR • MW propagation - Quasi Optics • Introduction to NMR

Speakers:

- Marina Bennati (Germany) – DNP, ENDOR
- Patrick Carl (Germany) – EPR Instrumentation
- Sabine van Doorslaer (Belgium) – ESEEM, HYSCORE
- Boris Epel (USA) – EPR imaging
- Serge Gambarelli (France) – transient EPR
- Daniella Goldfarb (Israel) – ELDOR detected NMR
- Edgar Groenen (Netherlands) – fundamental theory of EPR, quantum mechanics
- Jeffrey Hesler (USA) – MW technology – generation/detection of MW
- Gunnar Jeschke (Switzerland) – Pulsed EPR, DEER tutorials
- Frank Neese (Germany) – Quantum chemical calculations, ORCA tutorials
- Thomas Prisner (Germany) – Relaxation processes
- Alexander Schnegg (Germany) – Multi Frequency EPR and transition metal complexes
- Graham Smith (UK) – High Frequency EPR
- Piotr Pietrzyk (Poland) – materials, surfaces, powders
- Stefan Stoll (USA) – EasySpin, EasySpin tutorials
- Mark Tseytlin (USA) – Rapid Scan EPR
- Marilena Di Valentin (Italy) – biological applications of EPR
- Jörg Wrachtrup (Germany) – ODMR
- Richard Wyld (UK) – MW propagation - Quasi Optics
- Lukáš Žídek (Czech Republic) - Introduction to NMR

For more information visit our official website:
www.eprschool.ceitec.cz

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...with EquipSent!

Initial Situation

In high-income countries, scientific equipment is often stored unused after its usage time in research laboratories. Older devices are eventually discarded, even though they are still functional.

In low-income countries, schools and universities are lacking the funds to acquire even the most basic devices for adequate training of talented students. The resulting 'brain-drain' to other countries hinders the self-development in such regions.

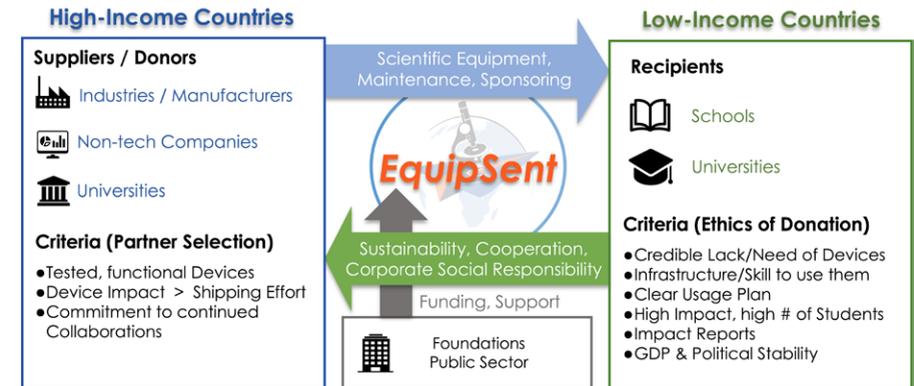
Our Solution

EquipSent seeks to connect these two worlds by directly matching donors of scientific equipment with those in need. As an intermediary between both parties, we reduce administrative efforts and help organizing the shipping, installation and legal contracting. Expenses are shared between the recipient and the industrial sponsors in return for CSR, new markets and advertisement.

Target Impact

- Access to Education. Students around the world will be granted access to hands-on training and education, rather than theory only.
- Collaboration and Development. The matched donor, sponsor and recipient of equipment are encouraged to collaborate on a long-term basis, which offers learning opportunities on all sides.
- Resource Efficiency & Waste Minimization. The equipment donor profits by reducing costs for space, waste and personnel, while benefitting from a positive image generated through sustainable use.

Founded by a group of ETH students, *EquipSent* is giving a second life to devices, promotes sustainable use and offers access to education and research to more people.



Do you know about no longer used, but functional scientific equipment in your research group or do you know of a university in need?

Do you want to learn more about what we do?

Check out our website EquipSent.org and get in touch with us!

our Partners



First announcement / non Ampere event

12th Australian and New Zealand Society for Magnetic Resonance (ANZMAG)

November 25 to 28



The 12th Australian and New Zealand Society for Magnetic Resonance (ANZMAG) conference will be held from Monday 25th to Thursday 28th of November 2019, hosted in the southwest region of Western Australia. <http://www.anzmag2019.com/>

This is the first time for Western Australia to host the conference and we are delighted to welcome you to the beautiful Pullman Bunker Bay Resort, located near the top of Cape Naturaliste in Geographe Bay, a three hour drive from Perth airport, and close to the renowned Margaret River wine region.

The program will once again aim to cover a wide range of topics in magnetic resonance, including liquid and solid-state NMR spectroscopy, imaging, EPR, theory and method development. Following positive feedback from the 2017 conference the parallel session format and student short talks will be retained for 2019.

We look forward to seeing you in Bunker Bay.

Kirk Feindel, University of Western Australia
Convenor and Co-Chair
Ann Kwan, University of Sydney
Co-Chair

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.

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Future conferences

Ampere Events 2019

16 th International Youth School Conference „Magnetic resonance and its applications Spinus 2019“	Saint Petersburg (Russia)	March 31 to April 1 2019
Ampere NMR School 2019	Zakopane (Poland)	June 23-29 2019
15 th ICMRM	Paris (France)	August 18-22 2019
XI TH EFEPR Conference	Bratislava (Slovakia)	September 1-5 2019
ISMAR / Euromar 2019	Berlin (Germany)	August 25-30 2019
11 th Alpine Conference on Solid-State NMR	Chamonix (Switzerland)	September 15-19 2019
8 th EFEPR School	Brno (Czech Republic)	November 18-25 2019

non Ampere Event 2019

12 th Australian and New Zealand Society for Magnetic Resonance (ANZMAG)	Pullman Bunker Bay Resort (Australia)	November 25-28 2019
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Ampere Events 2020

Euromar 2020	Bilbao (Spain)	July 2020
15 th MRPM	Tromsø (Norway)	August 24-28 2020
„HYP20` Hyperpolarized Magnetic Resonance 2020	Lyon (France)	August 30 to September 2 2020
Ampere Biological Solid-State NMR School	TBA	TBA