



EUROMAR Nantes 2018

European Magnetic Resonance Meeting

1-5 July 2018, France

La Cité, Nantes Events Center

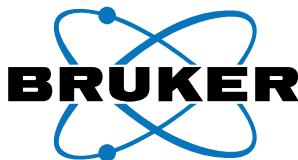
CONFERENCE PROGRAMME

www.euromar2018.org

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WELCOME WORD FROM EUROMAR 2018 CHAIR

On behalf of the Organising and Scientific Committees of the EUROMAR and AMPERE organisations, I am delighted to welcome you to EUROMAR 2018 in Nantes, France. It is the first time that EUROMAR is held in France since it was created in 2005, and it is an honor and a privilege to chair this edition.

As every year, I am confident that the EUROMAR conference will be a stimulating forum to exchange on the most recent breakthroughs in magnetic resonance. I am grateful to the members of the international scientific committee who have put together a remarkable scientific programme, with a high level selection of invited lectures and have promoted oral communications and posters. We have received an impressive number of abstract submissions this year, and this reflects the dynamism of our community.

To prepare this event, I have been lucky enough to work with a very efficient organising committee, who has been working night and day during the last two years to make this conference a unique event for the magnetic resonance family, with an exciting social programme featuring a selection of the best locally sourced food and wines. I would also like to thank the numerous volunteers, whose blue T-shirts will guide you throughout this fascinating week.

I would also like to warmly thank our numerous academic and industrial sponsors. Without their support, EUROMAR would not exist. Thanks to their generosity, we have been able to offer attractive registration costs and to grant a high number of student stipends on the basis of submitted abstracts. Please do not forget to visit the exhibitor's booths during coffee breaks and lunches!

I am confident that EUROMAR 2018 will be an unforgettable event and I thank you again for joining us in Nantes!



Patrick GIRAudeau
Chair, EUROMAR 2018
On behalf of the organising and scientific committees

COMMITTEES

INTERNATIONAL SCIENTIFIC COMMITTEE

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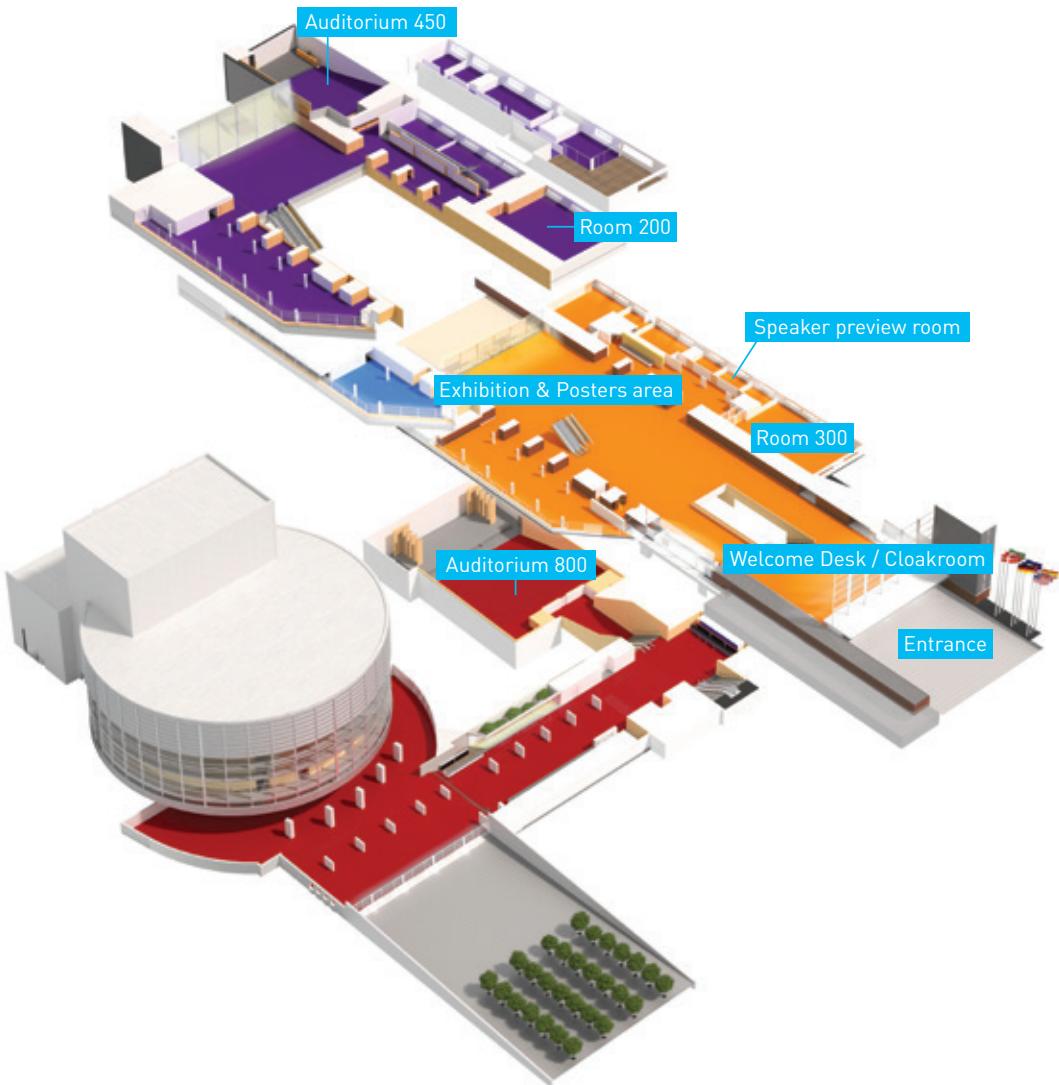
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Donate your book during the conference on the Library Project Booth in the Exhibition Area. To learn more about BSF's ongoing projects: www.librarieswithoutborders.org

CONFERENCE VENUE FLOORPLAN



SOCIAL EVENTS

WELCOME MIXER

SUNDAY, JULY 1ST | 19:00-21:00

Exhibition Area, ground floor

No registration needed, free and open to all delegates

Dress code: smart casual

BRUKER NIGHT

MONDAY, JULY 2ND | 20:15-23:00

Dress code: smart casual



Les Machines de l'Île
Parc des Chantiers
Boulevard Léon Bureau
44200 Nantes

Shuttle service from conference center

Registration with bruker's booth and on the Bruker website, in the «social event tab»:

www.bruker.com/events/euromar.html

EUROMAR 2018 CONFERENCE DINNER

Conference dinner sponsored by JEOL
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THURSDAY, JULY 5TH | 19:00-23:00

Conference Center, level 2

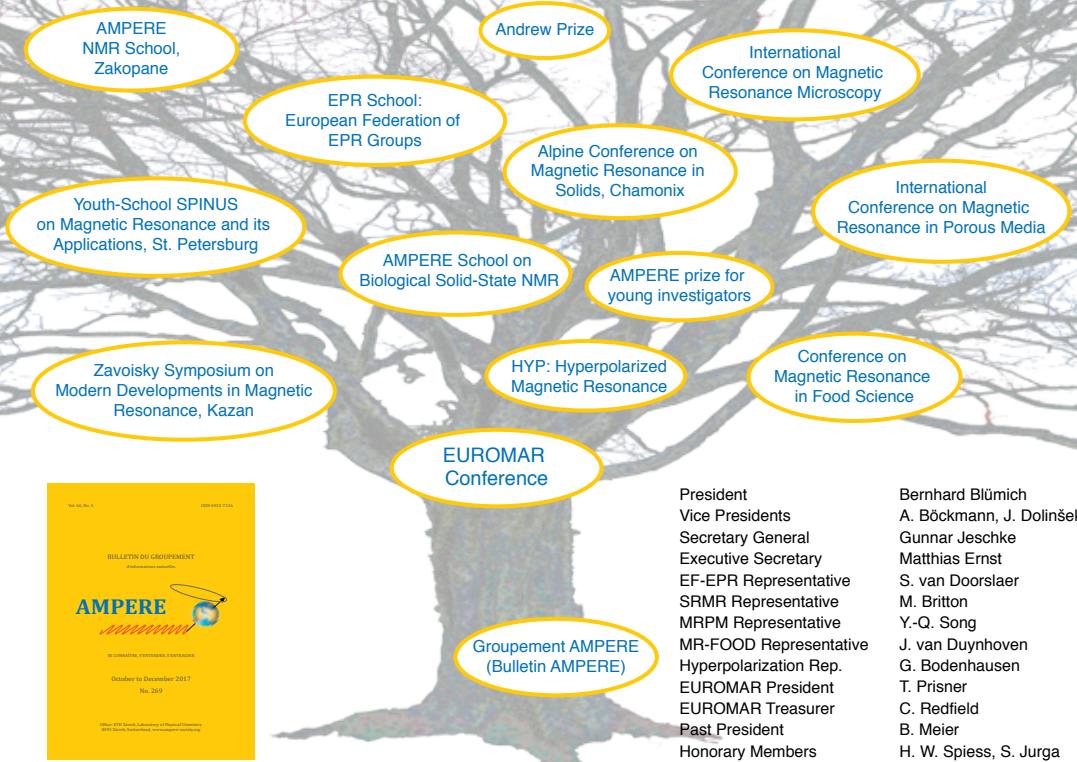
Dress code: smart casual

*Upon registration (60 € per participant / 40 € per student VAT included), limited number of seats.
Onsite requests cannot be guaranteed.*

Please make sure you bring your admission ticket.

Entertainment sponsored by





www.ampere-society.org

The Groupement AMPERE (Atomes et Molécules Par Études Radio-Électriques) is an European association of scientists with the mission to promote activities in magnetic resonance and related phenomena. It was founded in France in 1951 and was incorporated as a European organization in Switzerland in 1956. Although the roots and the basic activities are in Europe, its members are from all over the world. Today it is the umbrella organization for several interest groups representing various aspects of magnetic resonance. The EUROMAR Conference is the annual general conference of the AMPERE Society covering all fields of magnetic-resonance research.

The next EUROMAR Conference will be held as a joint conference with ISMAR in Berlin from August 25-30 2019.

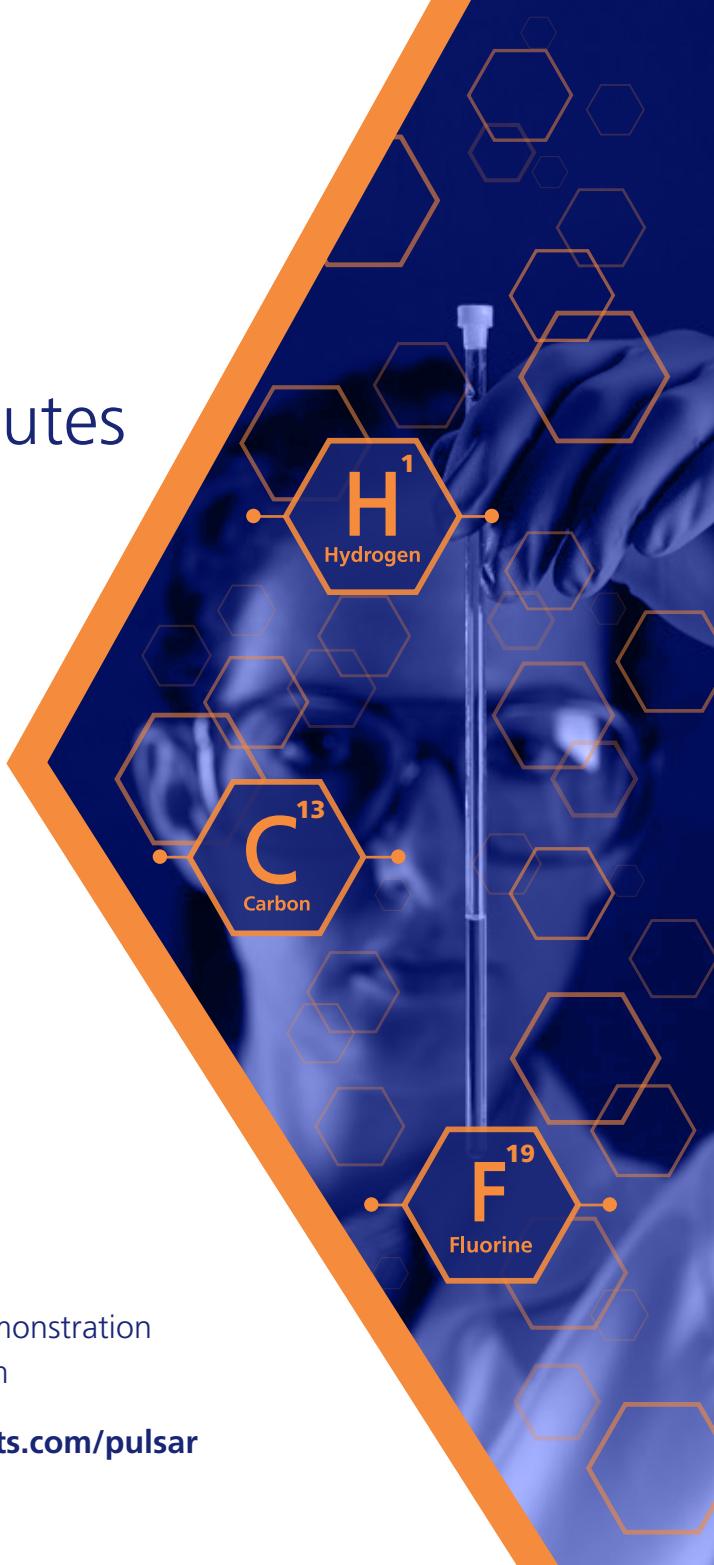
All registered EUROMAR participants are automatically members of the Groupement AMPERE and are invited to the General Assembly on Wednesday, July 4 2018 at 7 pm (directly following the plenary session) in the Auditorium 800.

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SCHEDULE AT A GLANCE

	SUNDAY, JULY 1 ST	MONDAY, JULY 2 ND	TUESDAY, JULY 3 RD	WEDNESDAY, JULY 4 TH	THURSDAY, JULY 5 TH	FRIDAY, JULY 6 TH
8h45 10h15	Plenary session	Coffee Break	Plenary session	Plenary session	Plenary session	
10h15 10h45		Coffee Break		Coffee Break	Coffee Break	
10h45 12h00			Parallel sessions	Parallel sessions	Parallel sessions	
12h00 12h45			Lunch	JEOL Workshop	MAGRITEK Workshop	GERM 30 th anniversary satellite meeting
12h45 13h45	Registration opening		Poster session Even numbers	Lunch	Lunch	JEOL Workshop
13h45 15h45			Poster session Odd numbers		Poster session Even and Odd numbers	Parallel sessions
15h45 16h15						Coffee Break
16h15 16h45					Tutorials <i>(recorded and available online)</i>	
16h45 17h45						Closing Session & Prizes for young scientists
17h45 18h15						Plenary session
18h15 19h00				Plenary session	Plenary session	
EVENING	Welcome mixer	Bruker Night			General Assembly Ampere	EUROMAR 2018 CONFERENCE DINNER (upon registration)

SUNDAY, JULY 1ST

DETAILED PROGRAMME

From 12:00	Registration opens	
12:00-16:00	BRUKER PRE-EUROMAR SYMPOSIUM	AUDITORIUM 450
16:15-19:00	Opening Ceremony and Prizes Session	AUDITORIUM 800
	<i>Chair: Patrick Giraudeau (France)</i>	
16:15	Welcome by representatives of local institutions	
16:30	Welcome by Bernhard Blümich on behalf of Ampere	
16:35	Welcome by Thomas Prisner on behalf of Euromar	
16:40	Welcome by Patrick Giraudeau	
16:50	Raymond Andrew Prize introduction, Beat Meier	
16:55	Raymond Andrew Prize lecture	
17:15	Ampere Prize introduction, Beat Meier	
17:20	Ampere Prize lecture	
17:40	Presentation of the Ernst Prize, Lucia Banci	
18:00	Ernst Prize lecture	
19:00-21:00	Welcome Mixer	EXHIBITION AREA

Plenary Session AUDITORIUM 800
Chair: Thomas Prisner (Germany)

08:45 **SINGLE-AND-MULTI-SHOT SPATIOTEMPORALLY ENCODED MRI** Lucio Frydman (Israel)
 09:30 **HEAVY MICE AND LIGHT THINGS: USING SOLID-STATE NMR SPECTROSCOPY TO UNDERSTAND BIOLOGICAL TISSUES IN HEALTH AND DISEASE** Melinda Duei (United Kingdom)

10:15-10:45 Coffee break EXHIBITION AREA

10:45-12:45	Bioliquids I AUDITORIUM 800 <i>Chair: Christina Reaffeld (United Kingdom)</i>	Hyperpolarization I ROOM 300 <i>Chair: Matthias Ernst (Switzerland)</i>	Computation I ROOM 200 <i>Chair: Thomas Rosegaard (Denmark)</i>
10:45	I01 COVALENT EPITOPE MASKING IN ALLERGENIC PROTEINS Martin Tollinger (Austria)	I03 NMR CRYSTALLOGRAPHY DRIVEN BY MACHINE LEARNED CHEMICAL SHIFTS Lyndon Emsley (Switzerland)	I05 PROCESSING OF HIGH-RESOLUTION 2D SPECTRA: TOWARDS A FULLY AUTOMATED EXTRACTION OF NMR PARAMETERS Damien Jeannerat (Switzerland)
11:15	001 MECHANISTIC VIEW OF THE OPIOID MU-RECEPTOR ACTIVATION Hélène Déméné (France)	004 HYPERPOLARIZED WATER TO VISUALIZE DISORDERED, WELL-FOLDED AND LOWLY-POPULATED STATES IN PROTEINS Or Szekely (Israel) 	007 CAPTURING THE DYNAMICS OF INTRINSICALLY DISORDERED PROTEINS USING NMR RELAXATION AND MOLECULAR DYNAMICS SIMULATIONS Nicola Salvii (France)
11:35	002 CHAPERONE-CLIENT-INTERACTIONS: FROM BASIC PRINCIPLES TO ROLES IN HEALTH AND DISEASE Björn M. Burmann (Sweden)	005 RADICAL POLARIZATION AND LIQUID-STATE DYNAMIC NUCLEAR POLARIZATION (DNP) WITH PHOTO-EXCITED FULLERENE NITROXIDE DERIVATIVES Shu-Hao Liou (Germany)	008 TRENDS - SOFTWARE FOR REACTION MONITORING WITH TIME-RESOLVED NON-UNIFORM SAMPLING Krzysztof Kazimierczuk (Poland)
11:55	003 CAPTURING PROTEIN DYNAMICS WITH UNPRECEDENTED SPEED BY HIGH POWER RELAXATION MEASUREMENTS Supriya Pratihar (Germany)	006 DIRECT HYPERPOLARIZATION OF ¹⁵N₂ SINGLE DIAZIRINE STATES IN TERMINAL DIAZIRINES (R-CH¹⁵N₂) ENABLES LONG LIVED HYPERPOLARIZATION AND SENSITIVE PROTON DETECTION Thomas Thies (USA)	009 QUANTUM-CHEMICAL COMPUTATION OF pNMR PARAMETERS Juha Vaara (Finland)
12:15	I02 CONTROLLED EXPLOSIONS FOR STUDYING PROTEIN FOLDING BY REAL TIME NMR Ad Bax (USA)	I04 PARA-HYDROGEN BASED HYPERPOLARIZATION FOR QUANTITATIVE NMR ANALYSIS AT NANOMOLAR CONCENTRATIONS Marco Tessari (Netherlands)	I06 SPIN DYNAMICS UNDER MAS-DNP: THEORY AND EXPERIMENTS Frédéric Mentink-Vigier (USA)

12:45-13:45 Lunch EXHIBITION AREA

12:45-13:45 JEOL Workshop ROOM 300

13:45-15:45 Poster Session / even number POSTER AREA

15:45-17:45 Biosolids | AUDITORIUM 800
Chair: Vladimír Škenar (Czech Republic)

EPR/ESR | ROOM 300
Chair: Sun Un (France)

Small Molecules and
Pharmaceutical | Room 200
Chair: Fabien Ferage (France)

IL07 | TO ASSIGN OR NOT TO ASSIGN:
THE ABC TRANSPORTER BMR
Anja Bröckmann (France)

IL09 | MODELLING THE
HETEROGENEOUS STRUCTURE OF
A PROTEIN-RNA COMPLEX WITH
DISTANCE DISTRIBUTION RESTRAINTS
Gunnar Jeschke (Switzerland)

O10 | SELECTIVE ENLIGHTENMENT OF
INTERACTION SURFACES IN BIOLOGICAL
SYSTEMS BY DNP-ENHANCED NMR
Sabine Hediger (France)

O11 | A SINGLE NAK CHANNEL
CONFORMATION IS NOT ENOUGH FOR
NON-SELECTIVE ION CONDUCTION
Chaowei Shi (Germany) 

O13 | HIGH RESOLUTION STRUCTURE
DETERMINATION OF MOLYBDENUM
COFACTORS IN ENZYME THROUGH
EPR, HYSCORE AND DFT STUDIES
Bruno Guigliarelli (France)

O14 | THE CHEESY WAY TO HYPERFINE
SPECTROSCOPY
Nino Wili (Switzerland)

O15 | COMBINED ESR AND NMR STUDY
OF ANISYMMETRIC EXCHANGE IN
QUANTUM SPIN LIQUIDS
Péter Szirmai (Switzerland)


O16 | NMR SPECTROSCOPY AT 1.5 GHz
USING A 35.2 T HYBRID MAGNET WITH
A VIEW TOWARD SCIENCE IN HIGH
TEMPERATURE SUPERCONDUCTING
MAGNETS
Timothy Cross (USA)

O17 | VERY FAST MAS SOLID-STATE NMR
IN SERVICE OF PHARMA - METHODS
FOR CONTROLLING OF PREPARATION
AND STRUCTURE ELUCIDATION OF
PHARMACEUTICAL COCRYSTALS
Marek Potrzebowski (Poland)

O18 | SMALL MOLECULE MIXTURE
ANALYSIS BY HETERONUCLEAR NMR
UNDER SPIN DIFFUSION CONDITIONS
IN VISCOUS DMSO-WATER SOLVENT
Pedro Lameiras (France)

IL08 | MAGIC-ANGLE-SPINNING NMR OF
PIVOTAL PROTEIN-LIPID INTERACTIONS
IMPLICATED IN PROGRAMMED CELL
DEATH
Patrick Van der Wel (USA)

IL10 | MAGNETIC RESONANCE WITH
QUANTUM MICROWAVES
Patrice Bertet (France)

IL12 | MONITORING PHOTOCHROMIC
PROCESSES AND PHOTOOINDUCED
REACTIONS VIA IN-SITU IRRADIATION
NMR-SPECTROSCOPY
Christina Thiele (Germany)

MONDAY, JULY 2ND

17:45-18:15 Coffee break EXHIBITION AREA

18:15-19:00 Plenary Session AUDITORIUM 800
Chair: Sophie Zinn-Justin (France)

18:15 **ISOTOPE LABELING IN HIGHER EUKARYOTES MAKES MORE PROTEINS AMENABLE TO NMR: APPLICATIONS TO SIGNAL TRANSMISSION IN GPCRS**
Stephan Grzesiek (Switzerland)

20:15-23:00 Bruker Night Les Machines de L'île

08:45-10:15	Plenary Session AUDITORIUM 800 <i>Chair: Teresa Carliomagno (Germany)</i>				
08:45	TIME-RESOLVED NMR TO CHARACTERIZE BIOMOLECULAR REFOLDING Harald Schwalbe (Germany) <i>Eric Michnies (United Kingdom)</i>				
09:30	PROBING ACTINIDE-LIGAND INTERACTIONS BY EPR SPECTROSCOPY Eric Michnies (United Kingdom)				
10:15-10:45	Coffee break EXHIBITION AREA				
10:45-12:45	Solid-state NMR methods AUDITORIUM 800 <i>Chair: Tatyana Polenova (USA)</i>	MRI and <i>in vivo</i> ROOM 300 <i>Chair: Andrew Webb (Netherlands)</i>	Benchtop and lowfield ROOM 200 <i>Chair: Bernhard Blümich (Germany)</i>	I15 IN VIVO MRI TRACKING OF SINGLE CELLS LABELLED WITH IRON OXIDE NANO PARTICLES Cornelius Faber (Germany)	I17 FIELD-CYCLING NMR OF POROUS MATERIALS AT ZERO AND ULTRALOW MAGNETIC FIELDS Michael Taylor (United Kingdom)
10:45	I13 IDEAL PULSES - PERFECT RESULTS? Matthias Ernst (Switzerland)			O22 ADVANCES IN SINGLE-SCANTIME-ENCODING MAGNETIC RESONANCE IMAGING Sina Marhabaie (France)	O25 LOW-FIELD RHEONMR AS A NEW TOOL FOR THE STUDY OF SOFT MATERIALS Carlo Botha (Germany)
11:15	O19 LOOPED, PROJECTED-SPECTROSCOPY (L-PROSY) APPLIED TO SOLID-STATE PROTON-DETECTED HETCOR: A NEW METHOD FOR ENHANCING SOLID-STATE 2D HETERONUCLEAR CORRELATION NMR SPECTRA Michael J. Jaroszewicz (Israel)			O23 2D SELECTIVE EXCITATION WITH RESILIENCE TO LARGE B_0 INHOMOGENEITIES Michael Mullen (USA)	O26 ^{31}P NMR FOR LIPID ANALYSIS WITH A LOW-FIELD BENCHTOP SPECTROMETER Boris Gouilleux (Denmark)
11:35	O20 IN SITU DNP NMR INVESTIGATION OF METASTABLE POLYMORPHS OF GLYCINE AT LOW TEMPERATURES Giulia Mollica (France)			O24 CHARACTERIZING THE MICROSCOPIC HETEROGENEITY OF THE LIVING HUMAN BRAIN WITH SPATIALLY RESOLVED 5D DIFFUSION-RELAXATION DISTRIBUTIONS Daniel Topgaard (Sweden)	O27 DETAILS OF POLYMER CHAIN DYNAMICS AS PROBED BY LOW-RESOLUTION NMR Kay Saalwaechter (Germany)
11:55	O21 UNDERSTANDING HYDROGEN BONDING STRUCTURE BY ELECTRON AND NMR NANO-CRYSTALLOGRAPHY Yusuke Nishiyama (Japan)				

12:15 IL14 UTILIZING PHASE MODULATED SATURATION PULSES TO OBTAIN DISTANCE AND RELAXATION OF QUADRUPOLAR SPINS SUBJECTED TO EXTENSIVELY LARGE QUADRUPOLAR FREQUENCIES <i>Amir Goldbourt (Israel)</i>	12:45-13:45 Lunch EXHIBITION AREA	13:45-15:45 MAGRITEK Workshop Room 200	13:45-15:45 Poster Session / odd number POSTER AREA	15:45-17:45 Tutorials AUDITORIUM 800 <i>Chair: Olivier Lafon (France)</i>	16:45 DECONSTRUCTING DNP Sponsored by MRM Group (SCF/SFP) <i>Anne Lezage (France), Sami Jaitin (France)</i>	17:45-18:15 Coffee break EXHIBITION AREA	18:15-19:00 Plenary Session AUDITORIUM 800 <i>Chair: Nicolas Giraud (France)</i>	18:15 ORDER, DISORDER, AND INTERACTIONS IN CONJUGATED POLYMERS AND BLENDS FROM SOLID-STATE NMR <i>Brad Chmelka (USA)</i>
12:15 IL15 QUADRUPOLE ENHANCED PROTON RELAXATION: PROOF OF PRINCIPLE FOR A NOVEL EXTRINSIC MRI CONTRAST MECHANISM <i>Hermann Scharfetter (Austria)</i>	12:45-13:45 IL16 QUADRUPOLE ENHANCED PROTON RELAXATION: PROOF OF PRINCIPLE FOR A NOVEL EXTRINSIC MRI CONTRAST MECHANISM <i>Ville-Veikko Telkkii (Finland)</i>							18:15 IL18 ULTRAFAST LAPLACE NMR USING A SINGLE-SIDED MAGNET <i>Ville-Veikko Telkkii (Finland)</i>

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JEOL NMR Technology

Monday, **July 2nd**: Symposium “New Developments & Applications in **Liquid State NMR**” – by Adolfo BOTANA, JEOL UK. Ltd.

Room 300, Ground Floor

Thursday, **July 5th**: Symposium “New Developments & Applications in **Solid State NMR**” – by Kouji YAZAWA, JEOL RESONANCE Inc.

Room 300, Ground Floor



HYPERPOLARIZED XENON-129 MRI CONTRAST AGENTS FOR MOLECULAR IMAGING
Ivan Dmochowski (USA)
HOW QUANTITATIVE NMR ENABLES NEW METABOLOMICS METHODS
Daniel Rafferty (USA)
Coffee break EXHIBITION AREA
Bioliquids AUDITORIUM 800
Chair: Isabella Falli (Italy)
IL19 | EVOLUTION OF PROTEIN DYNAMICS - TIME TRAVEL INTO THE PAST AND FUTURE
Dorothee Kern (USA)
Chair: Olivier Lafon (France)
IL21 | INVESTIGATING DISORDER IN A_xB₂O_y CERAMICS USING NMR SPECTROSCOPY AND FIRST-PRINCIPLES CALCULATIONS
Sharon Ashbrook (United Kingdom)
Q28 | QUANTIFYING RIBOSOME-NASCENT CHAIN INTERACTIONS AND INTRACELLULAR QUINARY STRUCTURE USING ADAPTIVELY SAMPLED MEASUREMENTS OF CROSS-CORRELATED RELAXATION IN METHYL SPIN SYSTEMS
Christopher Waudby (United Kingdom)
Q31 | METHYLAMMONIUM LEAD HALIDE PEROVSKITES: FROM STABLE PHOTOVOLTAIC MATERIALS TO NMR THERMOMETERS WITH Pb-207 SOLID-STATE NMR SPECTROSCOPY
Vladimir Michaels (Canada)
Q29 | COMBINATORIAL SELECTIVE LABELING IN STUDIES OF MEMBRANE PROTEINS WITH LIMITED STABILITY: MAPPING OF BINDING INTERFACE OF SPIDER TOXIN WITH VOLTAGE-GATED SODIUM CHANNEL
Zakhar O. Shenkoiev (Russian Federation)
Q32 | DNP ASSISTED STUDY OF THE INTERFACE REGION IN COMPOSITE MATERIALS
Ole Brauckmann (Netherlands) 
Q35 | IMPROVING DETECTION LIMITS BY USING A 22 T MAGNET AND MICROCOILS - POTENTIAL AND CHALLENGES IN IMAGING BIOLOGICAL SAMPLES AT ULTRA-HIGH FIELD STRENGTH
Julia R. Krug (Netherlands)
IL23 | Hyperpolarized ¹²⁹Xe Lung MRI and Biosensors
Xin Zhou (China)
Chair: Jean-Marie Bonny (France)

11:55

Q30 | NMR FOR FOLLOWING BRCA2 PHOSPHORYLATION DURING MITOSIS: CHARACTERIZATION OF BREAST CANCER VARIANT
Manon Julien (France)
Q33 | BIO-INSPIRED SOLID-STATE NMR EXPERIMENTS TO STUDY REACTION INTERMEDIATES AND SURFACE SPECIES IN HETEROGENEOUS CATALYSIS
Marc Balduz (Netherlands)
Q36 | MICRO-NMR ON 40 NANOLITER DROPLET ARRAYS
Ronald Kampmann (Germany)

IL20 MILLISECOND MOTIONS IN ALLOSTERY AND PHOSPHORYL TRANSFER Pat Loria (USA)	
12:45-13:45	Lunch EXHIBITION AREA

12:45-13:45	MAGRITEx Workshop ROOM 200
13:45-15:45	Poster Session / even and odd number POSTER AREA
15:45-17:45	Biosolids AUDITORIUM 800 Chair: Sabine Hädiger (France)
15:45	IL25 STRUCTURAL INVESTIGATION ON BACILLUS SUBTILIS BIOFINIS AND EXPERIENCES WITH 110KHZ SPINNING AS WELL AS DYNAMIC NUCLEAR POLARISATION (DNP) Hartmut Oschkinat (Germany)
16:15	037 STRUCTURAL CHARACTERIZATION A OF 29 KDA ENZYME-INHIBITOR COMPLEX AT 110 KHZ Rasmus Linser (Germany)
16:35	038 STRUCTURAL STUDIES OF NUCLEOSOMES AND HUMAN CYTOSKELETON PROTEINS: THE POWER OF HIGH-SENSITIVITY/RESOLUTION SOLID-STATE NMR METHODS Shengqi Xiang (Netherlands)
16:55	039 THE HYDROPHOBIC PORE ALKYL REVEALED IN LIPID BILAYERS AND DETERGENT MICELLES Tobias Schubert (France)
17:15	IL26 DE NOVO ATOMIC STRUCTURE, DYNAMIC ALLOSTERY AND ENZYMATIC MECHANISMS OF A 0.5 MDA PROTEASE FROM AN INTEGRATED SSNMR/CRYO-EM APPROACH Paul Schanda (France)
12:15	IL22 UNPRECEDENTED DETAILS ON THE STRUCTURE OF CHEMISORBED CO₂ SPECIES IN MESOPOROUS SOLID SORBENTS ENABLED BY NMR AND COMPUTER MODELING Luis Mafra (Portugal)
12:45-13:45	IL24 DIFFUSION-WEIGHTED MRS TO PROBE BRAIN CELL STRUCTURE IN VIVO Julien Valette (France)
13:45-15:45	IL27 SPATIALLY ENCODED DIFFUSION-ORDERED NMR SPECTROSCOPY Jean-Nicolas Dumetz (France)
15:45	IL29 MAGNET TECHNOLOGY SUITABLE FOR 30 T NMR & 20 T HUMAN MRI Mark Bird (USA)
16:15	040 INTERACTION STUDIES WITH SECONDARY-LABELLED HYPERPOLARIZED LIGANDS Olivier Cala (France)
16:35	041 THE CONCEPT OF TENSORIAL CONSTRAINTS IN MOLECULAR DYNAMICS: CONFORMATION AND CONFIGURATION OF FLEXIBLE MOLECULES BY RDCS WITHOUT ALIGNMENT TENSOR Burkhard Luy (Germany)
16:55	042 HIT-TARGET INTERACTION STUDY BY IN CELL NMR Nadia Zadi-Pruneyre (France)
17:15	IL28 DIVIDE AND RULE: NEW NMR METHODS FOR THE ANALYSIS OF MIXTURES Laura Castaner (United Kingdom)
12:15	IL30 COMBINING SOLUTION FLOW AND MICRO-DETECTION (AND SOMETIMES HYPERPOLARIZATION) FOR ENHANCED NMR Patrick Berthault (France)

WEDNESDAY, JULY 4TH

17:45-18:15 Coffee break EXHIBITION AREA

18:15-19:00 Plenary Session AUDITORIUM 800
Chair: Hervé Vezin (France)

18:15 HYPERFINE SPECTROSCOPY AND DISTANCE MEASUREMENTS TO STUDY ATP INDUCED CONFORMATIONAL CHANGES

Sponsored by

 Daniella Goldfarb (Israel)

NMR-Bio

Regio- and stereo-specifically labelled
Isoleucine, Leucine and Valine for *in vitro*
and insect cell expression systems

Novelties
in 2018

Methyl groups are ideal probes for NMR studies of challenging proteins and complex biomolecular assemblies. Therefore, NMR-Bio proposes advanced solutions for your innovative R&D to specifically label methyl groups in deuterated proteins. NMR-Bio aims to extend the applicability of this technology, initially developed for bacteria, to eukaryotic and *in vitro* expression systems.



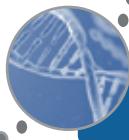
Combinatorial labelling of $^{13}\text{CH}_3$
Scrambling-free & optimized labelling
including the regio- and stereo-specific labelling
Of Isoleucine, Leucine and Valine amino acids



For expression in
bacteria

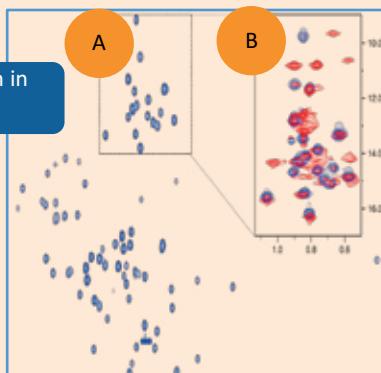
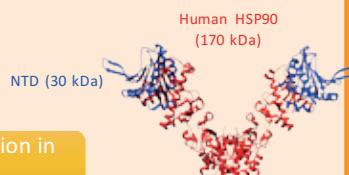


For expression in
insect cells



For expression in
Cell-Free

Soon! besides the $^{13}\text{CH}_3$ -amino acids, the NMR-Bio cell-free kit will include the bacterial cell extract and the required products for your in-house protein *in vitro* synthesis.



Our kits allow a scrambling-free labelling and are optimized for:

- (1) Long-range nOes detection;
- (2) Dynamic & ssNMR studies;
- (3) Study of Large complexes;
- (4) Methyl groups assignment.

A

2D $^{13}\text{CH}_3$ NMR spectrum of HSP90_NTD selectively labelled and protonated at Ile- $\delta 1$, Ala- β , Leu- proS , Val- proS and Thr- γ methyl groups using PLAM-A β I $\delta 1$ L VproS T γ NMR-Bio kit.

B

Superimposition of 2D $^{13}\text{CH}_3$ NMR spectra of (I- $\delta 1$)-HSP90-NTD expressed in *E. coli* and (I- $\delta 1$)-HSP90-FL protein synthesized in Cell-free using NMR-Bio technology.

For more details visit the NMR-Bio booth in poster exhibition hall and Get 10% discount on quotes issued during the conference! E-mail: kerfah@nmr-bio.com. www.nmr-bio.com

Plenary Session AUDITORIUM 800
Chair: Luisa Ciobanu (France)
 08:45-10:15

NON-COVALENT AND COVALENT BONDING FROM A MULTINUCLEAR SOLID-STATE MAGNETIC RESONANCE PERSPECTIVE: STRUCTURE, SYMMETRY, AND DYNAMIC PROCESSES

David Bryce (Canada)

RELAXING HARDWARE CONSTRAINTS: SHIFTING THE BURDEN TO SOFTWARE TO MAKE FASTER, PORTABLE AND MOTION-TOLERANT IMAGES

Laurence Wald (USA)

10:15-10:45 Coffee break EXHIBITION AREA

10:45-12:45 Hyperpolarization | AUDITORIUM 800
Chair: Thomas Meersmann (United Kingdom)
 Laurence Wald (USA)

Liquid-state NMR methods | Room 300
Chair: Wiktor Kozminski (Poland)

IL31 | SURFACE-MEDIATED HYPERPOLARIZATION OF WATER AND OTHER NEAT LIQUIDS FROM PARAHYDROGEN
Russ Bowers (USA)

IL33 | ENSEMBLES OF STRUCTURES REVEALED BY NMR
Roland Riek (Switzerland)

O46 | DNP-ENHANCED SSNMR SENSITIVITY: FREE RADICALS AT WORK
Olivier Ouari (France)

O49 | INTERACTION OF METABOLITES WITH MACROMOLECULES IN HUMAN BLOOD PLASMA INVESTIGATION BY HIGH-RESOLUTION NMR RELAXOMETRY
Ziqing Wang (France) 

O47 | PHIP ON A CHIP - HYPERPOLARISATION IN MICROFLUIDIC NMR
William George Hale (United Kingdom)

O50 | NOAH NMR SUPERSEQUENCES FOR SMALL MOLECULE ANALYSIS AND STRUCTURE ELUCIDATION
Erik Kupe (United Kingdom)

O51 | DRAMATIC DECREASE IN CEST MEASUREMENT TIMES USING MULTI-SITE EXCITATION
Guillaume Bouajjane (France)

O48 | PROTEIN-LIGAND INTERACTION MONITORING BY DISSOLUTION-DNP AND LONG-LIVED DEUTERIUM SPIN STATES
Dennis Kurzbach (France) 

IL35 | FUNDAMENTAL PHYSICS WITH UNUSUAL MAGNETIC RESONANCE
Dmitry Budner (Germany)

O52 | FROM LASER PHYSICS TO THE PARA-HYDROGEN PUMPED RASER
Sören Lehmkühl (Germany)

O53 | HYPERSTORE: TOWARDS STORAGE AND REMOTE TRANSPORT OF (HYPER) POLARISED ORDER VIA SUPERCRITICAL FLUIDS
Giuseppe Pileio (United Kingdom)

O54 | 3D SPIN NOISE IMAGING WITH ENHANCED SENSITIVITY
Stephan Josef Günthör (Austria)

<p>IL32 NOVEL MECHANISMS OF POLARIZATION PROPAGATION UNDER MAS DNP Björn Corzilius (Germany)</p>	<p>Lunch EXHIBITION AREA</p>	<p>IL34 DISORDERED PROTEINS FUNCTION AND DYSFUNCTION: BEING CLOSER TO PHYSIOLOGICAL CONDITIONS MATTERS François-Xavier Theillet (France)</p>	<p>IL36 ELECTRON SPINS HELP TO POLARISE, EXCITE AND DETECT INDIVIDUAL NUCLEAR SPINS Dieter Suter (Germany)</p>
<p>12:45-13:45 JEOL Workshop ROOM 300</p>	<p>Materials AUDITORIUM 800 Chair: Sharon Ashbrook (United Kingdom)</p>	<p>Metabolomics and other «omics» ROOM 300 Chair: Bernhard Brügel (France)</p>	<p>EPR/ESR ROOM 200 Chair: Robert Bittl (Germany)</p>
<p>12:45-13:45</p>	<p>13:45-15:45</p>	<p>13:45</p>	<p>14:15</p>
<p>IL37 CARBON CAPTURE AND MOFs: A ROLE FOR SSNMR Jeff Reimer (USA)</p>	<p>055 TRANSITION METAL DOPING AND PHASE SEGREGATION IN MN^{2+}- AND CO^{2+}-DOPED LEAD HALIDE PEROVSKITES FROM ^{13}CS AND 1H NMR RELAXATION ENHANCEMENT Dominik Kubicki (Switzerland)</p>	<p>IL39 HUMAN AND IN VITRO METABOLOMICS IN HEALTH RESEARCH Ana Gil (Portugal)</p>	<p>058 IMPROVED NMR METHODS FOR ^{13}C NMR BASED FLUXOMICS Guy Lippens (France)</p>
<p>12:45-13:45</p>	<p>13:45-15:45</p>	<p>14:15</p>	<p>14:15</p>
<p>IL38 FROM CRYSTALLINE TO AMORPHOUS CA-PHOSPHATE BIOMATERIALS: STRUCTURAL INSIGHTS USING MULTINUCLLEAR SOLID-STATE NMR APPROACHES Danielle Laurentin (France)</p>	<p>059 OPTIMISATION OF DIFFUSION-ORDERED NMR SPECTROSCOPY METHODS FOR USE IN METABOLIC PROFILING OF HUMAN BIOFLUIDS Nikita Harvey (United Kingdom)</p>	<p>061 NANOSCALE ZERO-FIELD ELECTRON SPIN RESONANCE SPECTROSCOPY Fei Kong (China) </p>	<p>062 LANTHANIDE BINDING TAGS AS SELF-ASSEMBLING GD(III) SPIN-LABELS FOR IN VIVO AND IN VITRO NANOMETRIC DISTANCE DETERMINATION IN PROTEINS Leandro C. Tabares (France)</p>
<p>12:45-13:45</p>	<p>13:45-15:45</p>	<p>14:15</p>	<p>14:15</p>
<p>IL40 ISOTOPOMIC ^{13}C NMR Serge Akoka (France)</p>	<p>060 NMR-BASED METABOLOMICS FOR NEW TARGET DISCOVERY AND PERSONALIZED MEDICINE: APPLICATION TO AGE-RELATED MACULAR DEGENERATION (AMD) Thibault Charpentier (France)</p>	<p>063 GD(III)-GD(III) DEER MEASUREMENTS ON PROTEINS AT W-BAND WITH AN ARBITRARY WAVEFORM GENERATOR – ADVANTAGES AND PITFALLS Arikta Feintuch (Israel)</p>	<p>IL42 HUMAN AND IN VITRO METABOLOMICS IN HEALTH RESEARCH Enrica Bordignon (Germany)</p>
<p>12:45-13:45</p>	<p>13:45-15:45</p>	<p>14:15</p>	<p>14:15</p>

THURSDAY, JULY 5TH

15:45-16:15 Coffee break EXHIBITION AREA

Closing Session Auditorium 800

Chair: Patrick Giraudieu (France)

16:15 Presentation of JMR Awards,

Gunnar Jeschke

16:20 Presentation of MRC Awards,

Roberto Gil

16:25 Presentation of the Magnetochemistry EPR travel awards

Hervé Vezin

16:30 Presentation of the FEBS Journal poster prizes,

Sophie Zinn-Justin

16:35 Presentation of the Suraj Manrao Student poster prizes,

Suraj Manrao

16:45 Presentation of the FRISBI registration grants,

Bernhard Brütscher

16:50 Presentation of the GERM travel grants,

Nicolas Giraud

16:55 Closing remarks,

Patrick Giraudieu

17:00 Closing remarks,

Thomas Prisner

17:05 Next EUROMAR

Plenary Session AUDITORIUM 800

Chair: Hartmut Oschkinat (Germany)

THE QUANTUM SCIENCE OF ATOMS ON SURFACES – SINGLE SPIN ELECTRON SPIN RESONANCE

Andreas Heinrich (Republic of Korea)

NUCLEAR SPINS FAR FROM EQUILIBRIUM

Malcolm Levitt (United Kingdom)

19:00-23:00 EUROMAR Conference Dinner CONFERENCE CENTER

SPECIAL PROGRAMME SESSIONS



BRUKER PRE-EUROMAR SYMPOSIUM

Sunday, July 1st | 12:00-16:00

AUDITORIUM 450 – LEVEL 2

Moderator: Alain Belgique

12:00	Registration & Lunch
13:00 – 13:25	Welcome and News from Bruker <i>Falko Busse</i>
13:25 – 13:45	AVANCE NEO: the workhorse for routine and research NMR <i>Clemens Anklin</i>
13:45 – 14:00	Solid-state NMR News: from fast-MAS to Dynamic Nuclear Polarization <i>Gerhard Althoff</i>
14:25 – 14:50	Break
14:50 – 15:10	CryoProbe and Probe News for High Resolution NMR <i>Aitor Moreno</i>
15:10 – 15:25	New technology for Bio-Solids: crossing the third frontier with the CP-MAS CryoProbe <i>Alia Hassan</i>
15:25 – 15:40	EMXnano: Making EPR Accessible <i>Manuela Liberi</i>
15:55	End



JEOL WORKSHOP
Monday, July 2 | 12:45-13:45
ROOM 300 – GROUND FLOOR

**New Developments
& Applications in Liquid-State NMR**
Adolfo Botana, JEOL UK. Ltd.



MAGRITEK WORKSHOP
Tuesday, July 3 | 12:45-13:45
ROOM 200 – LEVEL 2

Spinsolve ULTRA : quantifying composition of samples dissolved in protonated solvents
Frederico Casanova, Dr. Hélène Freichels



MAGRITEK WORKSHOP
Wednesday, July 4 | 12:45-13:45
ROOM 200 – LEVEL 2

Spinsolve 80 Carbon: Advanced NMR methods for structure confirmation
Andrew Coy, Fr Hélène Freichels



JEOL WORKSHOP
Thursday, July 5 | 12:45-13:45
ROOM 300 – GROUND FLOOR

**New Developments
& Applications in Solid-State NMR**
Kouji Yazawa, JEOL RESONANCE Inc.



GERM 30TH ANNIVERSARY SATELLITE MEETING

Friday, July 6th | 8:30-16:00

AUDITORIUM 200

Upon pre-registration

Moderator: Nicolas Giraud

08h30 - 08h50	Reception
08h50 - 09h00	<i>Welcome and Introduction</i>
09h00 - 09h30	Maurice Goldman
09h30 - 10h00	Muriel Delepierre
10h00 - 10h30	Daniel Canet
10h30 - 11h00	<i>Break</i>
11h00 - 11h30	Gérald Remaud
11h30 - 12h00	Luc Darasse
12h00 - 12h30	Dominique Massiot
12h30 - 14h00	<i>Lunch (Aperitif provided by courtesy of Bruker)</i>
14h00 - 14h30	GERM General Assembly
14h30 - 15h00	Herué Vezin
15h00 - 15h30	Julien Valette
15h30 - 16h00	Geoffrey Bodenhausen

PRIZES

OPENING AND PRIZES SESSION

SUNDAY, JULY 1ST | 16:15-19:00 | AUDITORIUM 800 – LEVEL -1

RICHARD R. ERNST PRIZE IN MAGNETIC RESONANCE

The Ernst Prize is intended to award achievements going beyond fundamental research, for groundbreaking applications of new or of previously known techniques in all areas of magnetic resonance. It is intended for research published within the last three years, although the origins of the ideas and experiments may have been described in previous publications. In special cases, and at the discretion of the Prize Committee, the award may be for cumulative achievements over a longer period of time. The Ernst Prize is intended to be awarded to a single individual; however, it may be awarded to up to three scientists if the Prize Committee deems that their contributions to the development of the applications are of equal value. Former prize recipients are Alex Pines (2016) and Robert Griffin (2017).

The Prize comes with a purse of 10,000 Euros; it is sponsored by the Bruker BioSpin Corporation, and is awarded annually at the EUROMAR conference.

The 2018 Ernst Prize committee is made by Profs. Lucia Banci (chair), Lucio Frydman, Alex Pines, Robert Griffin, Wiktor Kozminski, Patrick Giraudeau and Hartmut Oschkinat.

AMPERE PRIZE

The AMPERE prize has recently been redefined and is now given to a young principle researcher (a "rising star") for her/his first achievements in her/his independent career. There is no strict age limit but typically researchers below the age of forty are envisioned. The prize is given biannually. The prize carries a value of € 2000.

RAYMOND ANDREW PRIZE

In memory of Professor Dr. Raymond Andrew and to honor his pioneering work in the field of magnetic resonance, the AMPERE Groupe has founded the Raymond Andrew Prize. The Prize is awarded to young scientists for an outstanding PhD thesis in magnetic resonance.

CLOSING SESSION & PRIZES FOR YOUNG SCIENTISTS

THURSDAY, JULY 5TH | 16:15-19:00 | AUDITORIUM 800 – LEVEL -1

JOURNAL OF MAGNETIC RESONANCE YOUNG SCIENTIST AWARDS



Elsevier sponsors four "Journal of Magnetic Resonance Young Scientist Awards" at the annual EUROMAR conference, consisting each of: a check of US\$500.00, a one-year electronic subscription to the Journal of Magnetic Resonance and a Certificate. The awards are given to graduate students or post-doctoral fellows, whose unsolicited submissions for an oral presentation have been selected based on excellence by the EUROMAR scientific program committee.

Before their oral presentations, the awardees are announced as winners of the “Journal of Magnetic Resonance” by the session chair or an editor of JMR (if present).

JMR would like to see these award-winning contributions submitted to the Journal within the 12 months prior to the EUROMAR in question. If that was not the case, we encourage the winners to submit such article to JMR within a year of the award.

Recipients 2018:

Ole Brauckmann, Radboud University, Netherlands

Or Szekey, The Weizmann Institute of Science, Israel

Michael Mullen, University of Minnesota, USA

Shu-Hao Liou, Max Planck Institute for Biophysical Chemistry, Germany

MAGNETIC RESONANCE IN CHEMISTRY AWARD FOR YOUNG SCIENTISTS



The Magnetic Resonance in Chemistry Award for Young Scientists consists of three prizes of 500 Euros awarded to young scientists who have submitted an outstanding abstract for the Euromar 2018 conference. The awardees have been selected by the scientific committee of the conference from the abstracts submitted for an oral presentation.

Recipients 2018:

Ziqing Wang, ENS/Sorbonne University/CNRS, France

Chaowei Shi, Leibniz-Forschungsinstitut fuer Molekulare Pharmakologie FMP, Germany

Davy Sinnaeve, Ghent University, Belgium

MAGNETOCHEMISTRY EPR TRAVEL AWARDS

The journal Magnetochemistry (ISSN 2312-7481, <http://www.mdpi.com/journal/magnetochemistry>) is very pleased to offer two 200 € travel grants, awarded to young scientists who have submitted an outstanding abstract in the field of EPR at EUROMAR 2018. The awardees will be identified by the scientific committee

Recipients 2018:

Peter Szirmai, Ecole Polytechnique Fédérale de Lausanne, Switzerland

Fei Kong, University of Science and Technology, China

FEBS JOURNAL POSTER PRIZE

The FEBS Journal is very pleased to offer two 200-euro poster prizes at EUROMAR 2018. The journal has a long history of supporting early career scientists and is delighted to recognise their important contributions at this meeting.

Recipients 2018:

Mumdooh Ahmed, University of Hannover, Germany

Whitney Costello, University of Texas Southwestern Medical Center, US

FRISBI REGISTRATION GRANT



The French Infrastructure for Integrated Structural Biology (FRISBI: <http://frisbi.eu/>) provides an infrastructure for integrative structural biology approaches, from the molecular to the cellular level, integrating multi-resolution data from X-ray crystallography, small angle X-ray scattering, NMR, Cryo-EM and functional data including development for protein expression and crystallization. It is open to structural and molecular and cell biologists from both academia and industry from France and Europe. In the frame of EUROMAR 2018, FRISBI sponsors the early-bird registration of 4 students working in France in the field of Structural Biology.

Recipients 2018:

Louise Pinet, ICSN, CNRS, France

Diane Cala-De Paepe, Institut des Sciences Analytiques, France

Rachel Lenoir-Capello, Sorbonne Université, France

Wiktor Adamski, CEA, CNRS, University Grenoble Alpes, Grenoble, France

GERM TRAVEL GRANTS



The French group for the study of magnetic resonance (GERM - <http://germ.asso.fr>) offers 2 travel grants of 250€ to students working in French laboratories, on the basis of their abstract submitted to the Euromar Conference. Registration as a student according to the Registration Terms & Conditions, and abstract submission are sufficient to be considered for a stipend application.

Recipients 2018:

Marianna Porcino, CNRS, France

Emmanuelle Weber, ENS - Paris, France

SURAJ MANRAO STUDENT POSTER PRIZES

The EUROMAR Conference announces that the SURAJ MANRAO STUDENT TRAVEL FUND will offer 10 best poster prizes of \$ 100 US each for the best posters during the conference. SURAJ MANRAO Student Travel Fund contributes student travel/poster awards for major International NMR Conferences.

Recipients 2018:

Henry William Orton, Australian National University, Australia

Alexandre Poulhazan, Université du Québec à Montréal (UQAM), Canada

Kebiao Xu, University of Science and Technology of China, China

Stepan Horník, Institute of Chemical Process Fundamentals of the CAS, Czech Republic

Fanni Sebák, Eötvös Loránd University, Hungary

Deepak Khurana, Institute of Science Education and Research, India

Shota Kato, Tokyo Institute of Technology, Japan

Dion Thomas, Victoria University of Wellington, New Zealand

Bogdan Aleksandrovich Rodin, International Tomography Center, Russian Federation

Alper Soyluer, Middle East Technical University, Turkey

STUDENT STIPENDS

Thanks to support from the AMPERE Society and from the EUROMAR, the 179 students who registered before May 31st have received a stipend covering part of their expenses.

 **SPEAKERS****PLENARY SPEAKERS**

David Bryce, *University of Ottawa, Canada*
Brad Chmelka, *University of California, Santa Barbara, USA*
Ivan Dmochowski, *University of Pennsylvania, USA*
Melinda Duer, *University of Cambridge, United Kingdom*
Lucio Frydman, *Weizmann Institute of Science, Israel*
Daniella Goldfarb, *Weizmann Institute of Science, Israel*
Stephan Grzesiek, *University of Basel, Switzerland*
Andreas Heinrich, *Center for Quantum Nanoscience, Republic of Korea*
Malcolm Levitt, *University of Southampton, United Kingdom*
Eric McInnes, *University of Manchester, United Kingdom*
Daniel Raftery, *University of Washington, USA*
Harald Schwalbe, *Johann Wolfgang Goethe-Universität, Germany*
Lawrence Wald, *Massachusetts General Hospital, USA*

TUTORIAL SPEAKERS

Sami Jannin, *Université Claude Bernard de Lyon, France*
Anne Lesage, *CNRS, France*
Gareth Morris, *University of Manchester, United Kingdom*

Tutorial sessions are recorded and will be available online after the conference.

INVITED SPEAKERS

Serge Akoka, *Université de Nantes, France*
Sharon Ashbrook, *University of St Andrews, United Kingdom*
Ad Bax, *NIH, USA*
Jan Behrends, *Freie Universität Berlin, Germany*
Patrice Bertet, *CEA Saclay, France*
Patrick Berthault, *CEA Saclay, France*
Mark Bird, *Florida State University, USA*
Anja Böckmann, *CNRS/Université de Lyon, France*
Enrica Bordignon, *Ruhr University Bochum, Germany*
Russ Bowers, *University of Florida, USA*
Dmitry Budker, *Helmholtz Institute Mainz, Germany*
Laura Castanar, *University of Manchester, United Kingdom*
Björn Corzilius, *Goethe University Frankfurt, Germany*
Jean-Nicolas Dumez, *CNRS, France*
Lyndon Emsley, *EPFL, Switzerland*
Matthias Ernst, *ETH Zürich, Switzerland*

Cornelius Faber, University Hospital Münster, Germany
Ana Gil, University of Aveiro, Portugal
Roberto Gil, Carnegie Mellon University, USA
Amir Goldbourt, Tel Aviv University, Israel
Damien Jeannerat, University of Geneva, Switzerland
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Hartmut Oschkinat, Leibniz-Forschungsinstitut für Molekulare Pharmakologie, Germany
Jeff Reimer, UC Berkeley, USA
Roland Riek, ETH Zurich, Switzerland
Paul Schanda, Institut de Biologie Structurale, France
Hermann Scharfetter, Graz University of Technology, Austria
Dieter Suter, TU Dortmund, Germany
Michael Tayler, University of Cambridge, United Kingdom
Ville-Veikko Telkkı, University of Oulu, Finland
Marco Tessari, Radboud University, Netherlands
François-Xavier Theillet, CNRS, France
Christina Thiele, TU Darmstadt, Germany
Martin Tollinger, University of Innsbruck, Austria
Julien Valette, Commissariat à l'Energie Atomique, France
Patrick Van Der Wel, University of Pittsburgh, USA
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Shengqi Xiang, Utrecht University, Netherlands

POSTERS

405 posters have been successfully accepted. Poster will be displayed continuously from Sunday, July 1st to Thursday, July 5th in the Poster Area on the ground floor.

Three poster sessions have been scheduled:

Poster Session 1 – Monday, July 2nd | 13:45-15h45 | even numbers

Poster Session 2 – Tuesday, July 3rd | 13:45-15h45 | odd numbers

Poster Session 3 – Wednesday, July 4th | 13:45-15h45 | even and odd numbers

Mounting materials will be supplied by the Conference and available at the welcome desk. Conference staff will be present to assist you for finding your board and mounting your poster.

Presenting authors are kindly requested to be present throughout the official Poster Sessions in order to explain their research and to answer questions from the delegates. In addition participants will also have a possibility to view posters during the breaks and lunches therefore authors are encouraged to be present at their posters during those times as well.

Mounting (poster area)	Sunday, 1 st July 2018	From 12:00 to 20:00
Removing (*)	Thursday, 5 th July 2018	From 13:45 to 18:45

(*) Poster should be removed at the stated times.

The organisers are not responsible for loss or damage of those posters which are not removed by authors within the times of dismantling as indicated above. Authors will not be able to retrieve posters they have not removed in time.

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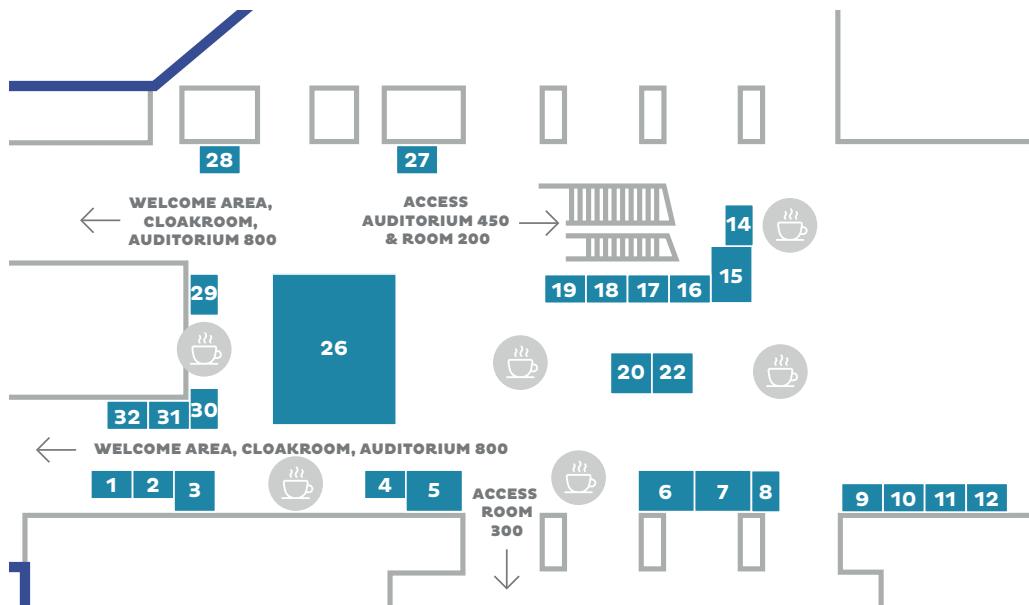
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MR SOLUTIONS

BOOTH # 27



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Website: www.mrsolutions.com

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Contact person: Susie RIEGEL

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Website: Nanalysis.com

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Contact person: Rime KERFAH

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NMR-Bio is a start-up manufacturing and distributing patented precursors for the production of selectively methyl-labeled proteins. NMR-Bio provides also a wide range of NMR services including customized synthesis of isotopically labeled proteins and High-field NMR data acquisition and analysis.

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RS²D

BOOTH # 15



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Founded in 2003 RS²D began with refurbished NMR. Quickly we launched a spectrometer, configurable for MRI or NMR. Since 2011 we have been very active working on preclinical MRI. Lastly we developed the NMR console adaptable to magnets from 200 to 600 MHz. Based in Strasbourg, RS²D employs 20 people.

SIGNALS

BOOTH # 16



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BOOTH # 12



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Zurich Instruments is a test and measurement company based in Switzerland, developing and selling measurement instrument. Our core offering includes lock-in amplifiers, phase-locked loops, arbitrary waveform generator, impedance analyzers, digitizers and boxcar averagers.

List of exhibitors as of June 7th.

All company details and profiles included in the final programme were provided by the Exhibitors & Sponsors and are under their responsibility.

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CERTIFICATE OF ATTENDANCE

All registered participants will receive a certificate of attendance upon arrival.

CLOAKROOM

Cloakroom is located at the main entrance next to the conference welcome desk. Service is provided free of charge to all participants (opened at conference hours).

CLIMATE AND CLOTHING

Summers are usually warm and comfortable, averaging 25°C during the day in July. Evenings can be cool in summer, so it's best to pack a light jacket or sweater.

CONGRESS LANGUAGE

The congress language is English, no translation provided.

CURRENCY

France adopted the euro currency. These notes and coins can therefore be used in any country belonging to the euro zone.

EUR 1 is divided into 100 centimes or cents.

- Notes: EUR 5, 10, 20, 50, 100, 200 and 500.
- Coins: 1, 2, 5, 10, 20 and 50 cents; EUR 1 and 2.

ELECTRICITY

In France the norm is 220 volts, with a frequency of 50 Hz. Voltage and sockets vary from country to country and so an adapter may be necessary. For more information: www.worldstandards.eu/electricity/plug-voltage-by-country/

EMERGENCY NUMBERS

The pan-European emergency number 112 can be called for any type of emergency and an operator will direct you to the appropriate French department. Alternatively, specific services can be reached as follows:

- Fire brigade: 18
- Police: 17
- Accident and Emergency: 15

FOOD AND BEVERAGES

Coffee breaks and lunches are included in the registration fee and will be served in the exhibition area (ground floor) in allocated time.

HEALTH SERVICES

Chemists (called pharmacie in France) are usually open straight through from 8h30-19h30. They take it in turns to close on Sundays and also sometimes on Mondays. When a chemist is closed, the addresses of the nearest duty chemists are displayed on the door. A few chemists remain open late and even all night.

In case of emergency, the pan-European emergency number 112 can be called for any type of emergency. Or alternatively dial '15' for Accident and Emergency.

For further information on the French Medical system you can visit the "assurance maladie" website www.ameli.fr (website in French).



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EUROMAR and MCI France as organisers will accept no liability for personal injuries sustained by or for loss or damage to property belonging to congress participants and accompanying persons either during or as a result of the Congress or during all tours and events.

LOST AND FOUND

Lost & Found service is available at the welcome desk during opening hours.

NATIONAL AND INTERNATIONAL CALLS

The France country code 33 will allow you to call France from another country (use the international access code 00 prior to dialing 33), followed by an area code.

All French numbers have 10 digits and begin with 0. The prefix for Nantes numbers is 09 and mobile numbers start with 07.

0 800 and 0 804, 0 805, 30 00, 31 44, 36 55 all denote a free service. Other special telephone numbers have specific tariffs from land lines.

Contact your mobile phone operator who will confirm whether or not your mobile is compatible with the French network and also explain how you will be charged for calls received from your own country or that you make while abroad (local and international calls).

METRIC MEASURES

The system of measurement used in France is the metric system, and temperatures are expressed in degrees Centigrade.

It's worth noting too, that in France decimals are indicated by a comma and not a point, as in English-speaking countries.

Registration Opening Hours

Sunday, July 1 st :	12:00-19:00
Monday, July 2 nd :	07:30-19:00
Tuesday, July 3 rd :	07:30-19:00
Wednesday, July 4 th :	07:30-19:00
Thursday, July 5 th :	07:30-19:00

TIME ZONE

Nantes is in the Central European Time Zone. You can see Nantes' time in relation to most cities on the globe by visiting www.TimeAndDate.com

TIPPING

In France, prices shown include tax and service. However, if the service has been particularly good, you may wish to leave a tip in order to show your appreciation. As a general rule, the amount is 5 to 10% of the total bill.

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