

# **Alpine Conference** on Magnetic Resonance in Solids 4-8 Sept 2022 Chamonix-Mont-Blanc, France

## **The 4<sup>th</sup> Alpine Conference on Solid-State NMR**

**Chamonix Mont-Blanc, France 11-15 September 2005**



*Dedicated to Alex Pines,  
on the occasion of his 60th birthday*

### **International Programme Committee**

Malcolm Levitt (Southampton), Chairman

Dieter Suter (Dortmund)

Stanley Opella (San Diego)

### **Pines' Symposium**

The scientific part of the 4th Alpine Conference on Solid State NMR started on Sunday 11th, with a celebration in honor of Alex Pines.

The detailed program of this Symposium is available [here](#).



## Monday 12<sup>th</sup> September 2005

8:30-12:00am Session I (M. Mehring, chair)

### **Natural Abundance Powder Crystallography by Proton NMR**

Lyndon Emsley

### **Advances in NMR Crystallography of Powders**

Francis Taulelle

### **Towards Understanding Heteronuclear Decoupling in Rotating Solids**

Matthias Ernst and Beat H. Meier

### **Magic Angle Spinning NMR Investigations of Ligand Binding in G-Protein Coupled Receptors**

Suzanne Kiihne, Alain F.L. Creemers, V.R.Prasad Ratnala, Petra Bovee-Geurts, Willem J. De Grip, Francesco Buda, Johan Lugtenburg, Rob Leurs, Huub J.M. De Groot

### **Modelling Abundant-Spin Linewidths in Solid-State NMR**

Paul Hodgkinson, Vadim E. Zorin, Steven P Brown

### **J-Coupling Based Homo- and Hetero-Nuclear Correlations Involving Quadrupole in Crystalline and Amorphous Solids**

Dominique Massiot, Franck Fayon, Valérie Montouillout, Dinu Iuga, Claudia Morais, Zhehong Gan

2:30-3:50pm Session II (D. Suter, chair)

### **Detection of a Single Electron Spin by Magnetic Resonance Force Microscopy**

Daniel Rugar

### **Magnetic Resonance on Single Defects in Diamond: Application in Quantum Information Processing**

Fedor Jelezko, Torsten Gaebel, Iulian Popa, Michael Domhan, Christoffer Wittmann, Joerg Wrachtrup

## Tuesday 13<sup>th</sup> September

8:30-12:00am Session III (M. Duer, chair)

### **Efficient Spin-Spin Scalar Coupling Mediated <sup>13</sup>C-<sup>13</sup>C Polarization Transfer in Solid-State NMR Spectroscopy**

Jerry Chan, Yun Mou, John Chao

### **CMHORROR: Homonuclear Recoupling with Cosine Modulated RF**

Gaël De Paëpe, Józef Lewandowski, Marvin J. Bayro, Robert G. Griffin



**REREDOR – a Solid-State NMR Tool for Site-Specific Determination of distances and Molecular Dynamics**

Christoph Deller, Anke Hoffmann, Ingo Schnell

**Hartmann-Hahn Cross-Polarization Solid-state NMR Techniques for Measurements of Heteronuclear Dipolar Couplings**

Sergey Dvinskikh, Herbert Zimmermann, Dick Sandström, Arnold Maliniak

**Decoherence in Wide Quantum Registers**

Hans Georg Krojanski, Dieter Suter

**Insights into the Ion Dynamics of Lithium Ion Conductors from Multi-dimensional  $^6\text{Li}$**

Sandra Faske, Michael Vogel, Hellmut Eckert

6:00-7:40pm Session IV (E. Lippmaa, chair)

**Sixty Years of Ups and Downs**

Alex Pines

**Ultrafast Timescales in Chemical Biology: Some Uses for Optical Analogues of NMR**

David Klug

**Wednesday 14<sup>th</sup> September**

8:30-12:00am Session V (W.S. Warren, chair)

**Probing Weak C...O Hydrogen Bonds in Maltose Anomers by a Combined Experimental Solid-State NMR and Computational Approach**

Steven P. Brown, Tran N. Pham, Ana M. Gil, Ana M. Amado, Francesco Mauri, Jonathan R. Yates, Chris J. Pickard

**Probing Secondary Structure and Backbone Dynamics of Fibrillar Full-Length Alpha-Synuclein by Solid-State NMR**

Henrike Heise, Wolfgang Hoyer, Stefan Becker, Ovidiu Andronesi, Vinod Subramaniam, Thomas Jovin, Marc Baldus

**Solid-State NMR of Membrane Proteins in Bilayers**

Francesca Marassi, Jungyuen Choi, Franzin Carla, Xiao-min Gong

**Transverse Magnetization and Spin Dynamics in a Cu(II)  $S=1/2$  Antiferromagnetic Chain Observed by  $^{13}\text{C}$  NMR**

Hans-Henning Klauss, Anja U.B. Wolter, P. Wzietek, S. Süllow, F.J. Litterst, A. Honecker, W. Brenig, R. Feyerherm

**Water-Protein Hydrogen Exchange in the Micro-Crystalline Protein Crh as Observed by Solid State NMR Spectroscopy**

Anja Böckmann, Michel Juy, Emmanuel Bettler, Lyndon Emsley, Anne Galinier, François Penin, Anne Lesage

**Optically Polarized Ga-69 NMR of Gaas in Bulk Single Crystals and in Heterostructured Devices**

Sophia Hayes, Kannan Ramaswamy, Stacy Mui



2:30-4:00pm Session VI (S.J. Opella, chair)

**NMR Studies of (1) Viral Fusion Peptides and Proteins and (2) High-Temperature Metal Selenophosphate Syntheses**

David Weliky, R. Mark Worden, Mercuri Kanatzidis, Jaime Curtis, Casey Preston, In Chung, Zhaoxiong Zheng, Angela Karst, Jason Criscione, Michele Bodner, Charles Gabrys, Wei Qiang, Christian Canlas, Rong Yang, Paul Parkanzky, Christopher Wasniewski

**Alpine Conference** on Magnetic Resonance in Solids

4-8 September 2022 Chamonix, Mont-Blanc France

**Email us at**

[contact@alpine-conference.org](mailto:contact@alpine-conference.org)

(inquiries about the conference)

[admin@alpine-conference.org](mailto:admin@alpine-conference.org)

(technical questions on registration and abstract submission)

**or Fill in the below form to contact us**

Name	Message
Email	
Phone	

Submit

**Applications**

Jörn Schmedt Auf Der Günne

[Privacy Policy](#)

[Contact us](#)

Follow us :   

© 2021 Alpine-Conference - All Rights Reserved.



