





GIDRM NMRDay: NMR of porous systems: applications to building materials and cultural heritage

June 7th 2016, Department of Chemistry and Industrial Chemistry, University of Pisa









PROGRAM

9:15 - 10:00 Registration

10:20 - GIDRM BOARD: Opening

10:40 - "Structure and fractality in materials for construction and preservation in cultural heritage"

PIERO BAGLIONI University of Florence and CSGI

11:20 - "Magnetic resonance for fluids in porous media: a multi-faceted tool to characterize porous materials of different natures and applications"

PAOLA FANTAZZINI University of Bologna

12:00 - "NMR cryoporometry as a powerful tool for structural characterization of porous solids"

RUSTEM VALIULLIN Leipzig University, Germany

12:40 - 14:20 Lunch

14:20 - "NMR in the study of porous materials of interest in cultural heritage"

DONATELLA CAPITANI IMC-CNR Rome

15:00 - "Solid State NMR spectroscopy and relaxometry for the investigation of innovative cements"

SILVIA BORSACCHI ICCOM-CNR Pisa

15:40 - "Latest advances in Solid State NMR"

SATOSHI SAKURAI JEOL Ltd

16:10 - "New developments of the Virtual Multifrequency Spectrometer: fully ab-initio simulations of NMR spectra in condensed phases"

VINCENZO BARONE Scuola Normale Superiore

16:50 - 17:00 Concluding Remarks

AIMS

This NMR Day is dedicated to illustrate NMR techniques useful for investigating porous systems of interest as building materials and in cultural heritage. Different aspects of high and low resolution methods, such as MAS NMR spectroscopy, ¹H NMR relaxometry, unilateral NMR and cryoporometry, will be covered. Key lectures on subjects complementary to NMR will also be given by experts in materials science and computational methods.

SCIENTIFIC COMMITTEE

GIDRM board: Henriette Molinari Fabio Arnesano Lucia Calucci

Michele Chierotti Stefano Mammi Luisa Mannina Paola Turano

ORGANIZING COMMITTEE

Silvia Borsacchi, ICCOM-CNR Pisa Lucia Calucci, ICCOM-CNR Pisa Marco Geppi, Department of Chemistry and Industrial Chemistry, University of Pisa

INFORMATION

Venue: Aula F, Department of Chemistry and Industrial Chemistry, University of Pisa, via G. Moruzzi 13, 56124, Pisa. **Registration fee:** The registration fee is of 50 € (including subscription to GIDRM for 2016) for non GIDRM members and

of 30 € for GIDRM members.

Deadline for registration is May 31st.

Registration can be performed on the GIDRM website: www.gidrm.org.

Contact: pisa2016@gidrm.org













