

# II International NMR Training Course

## "INDUSTRIAL AND SOCIOECONOMIC APPLICATIONS OF SOLID-STATE NMR"

NMR spectroscopy is a powerful technique that produces structural information on short- and medium-range scales that can not be obtained by other experimental means. This introductory training course of solid-state NMR will focus mainly on materials with practical applications and potential benefits for industry and society.

October 26<sup>th</sup> - 28<sup>th</sup> 2015

Instituto de Cerámica y Vidrio (ICV-CSIC) Campus Cantoblanco CSIC, Kelsen 5, 28049, Madrid (SPAIN)

### October 26<sup>th</sup>

Jesús Sanz (ICMM-CSIC)

*RMN de estado sólido en España*

María José de la Mata (Sidi-UAM)

*Adquisición de espectros en RMN*

Zhehong Gan (NHMFL)

*Solid-state NMR at high fields and of difficult-to-observe nuclei*

Isabel Sobrados (ICMM-CSIC)

*Materias primas y fritas para pavimentos y revestimientos cerámicos*

Ana Fernández (IETCC-CSIC)

*Resonancia magnética nuclear aplicada a materiales cementantes*

María Dolores Alba (ICMSE-CSIC)

*Ceramic hosts for immobilization of hazardous waste: Study by solid state NMR.*

Luis Sánchez Muñoz (ICV-CSIC)

*Industrial ceramic pigments*

### October 27<sup>th</sup>

Randall E. Youngman (CORNING GLASS)

*NMR of glasses and glass-ceramics in glass industry*

Francisco Muñoz (ICV-CSIC)

*NMR of phosphate glasses for electrical applications*

Barbara Perrone (BRUKER)

*New developments in Solid State NMR*

Koji Yazawa (JEOL)

*Go Fast: 3 Acts in Solid State NMR through the JEOL's State of The Art*

Juan Rubio (ICV-CSIC)

*Vidrios especiales para la industria*

Teresa Blasco (ITQ-CSIC)

*Algunos ejemplos de aplicación de la RMN en catálisis heterogénea*

Manuel Sánchez (ICP-CSIC)

*RMN de materiales nanoporosos con aplicaciones industriales*

### October 28<sup>th</sup>

Leoncio Garrido (ICTP-CSIC)

*PFM-NMR: Molecular and ionic transport in polymer membranes*

Ernesto Brunet (UAM)

*Aplicación de la RMN de sólidos a la industria farmacéutica: Principios activos (APIs)*

Juan Miguel López del Amo (CIC Energigune)

*Bio Solid-State NMR: Applications to structural biology and drug design*

José Ignacio Santos (SGIker- UPV/EHU)

*Estudio de polimorfos de principios activos mediante la técnica de <sup>13</sup>C CPMAS RMN*

Jesús Sanz (ICMM-CSIC)

*Applications of NMR in solid electrolytes*

Juan Miguel López del Amo (CIC Energigune)

*Solid-State NMR of paramagnetic materials*

## Direction and Organization



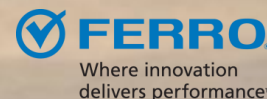
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## Sponsors and collaborating institutions



# Procedure

1.- Registration fees: Students 100 €, Researchers 150 €.

Instituto de Cerámica y Vidrio (CSIC), Kelsen 5, 28049, Madrid, Spain

IBAN: ES55 0049 4099 4128 1415 0914 SWIFT: BSCHEMM

Banco de Santander, Avenida de la Zaporra 1, 28100 Alcobendas (Madrid, Spain)

2.- Fill this registration form:

Participant	Billing Information
Name:	Name:
Address:	Address:
Email:	Email:
Telephone number:	NIF/VAT number:

3.- Send the “registration form” and “receipt of payment” to: [solidstateNMR@icv.csic.es](mailto:solidstateNMR@icv.csic.es)  
(deadline: Oct. 21<sup>th</sup>, 2015)

## NOTES

- The registration fees include the training course, breakfast and lunch for the three days
- Most talks will consist of a brief introduction of a particular industrial sector and then some applications of the solid-state NMR techniques.
  - The training course includes 20 teaching hours
  - Course certificates will be prepared if demanded
  - Participants are limited to 140 seats
- The Sociedad Española de Cerámica y Vidrio offers 15 travel grants of 100 € for its partners travelling from outside the region of Madrid ([secv@icv.csic.es](mailto:secv@icv.csic.es))