

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 26th - 28th 2015: Instituto de Cerámica y Vidrio (ICV-CSIC) Campus Cantoblanco CSIC, Kelsen 5, 28049, Madrid (SPAIN)

October 26th

9:45-10:00 Presentación del curso

10:00-10:30 Jesús Sanz (ICMM-CSIC)

RMN de estado sólido en España

10:30-11:30 María José de la Mata (Sidi-UAM)

Adquisición de espectros en RMN

11:30-12:00 Coffee break

12:00-13:00 Zhehong Gan (NHMFL)

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

13:00-14:00 Isabel Sobrados (ICMM-CSIC)

Materias primas y fritas para pavimentos y revestimientos cerámicos

14:00-15:00 Lunch

15:00-16:00 Ana Fernández (IETCC-CSIC)

Resonancia magnética nuclear aplicada a materiales cementantes

16:00-17:00 María Dolores Alba (ICMSE-CSIC)

Ceramic hosts for immobilization of hazardous wastes: Study by solid state NMR

17:00-18:00 Luis Sánchez Muñoz (ICV-CSIC)

Industrial ceramic pigments

October 27th

9:30-10:30 Randall E. Youngman (CORNING GLASS)

NMR of glasses and glass-ceramics in glass industry

10:30-11:30 Francisco Muñoz (ICV-CSIC)

NMR of phosphate glasses for electrical applications

11:30-12:00 Coffee break

12:00-13:00 Barbara Perrone (BRUKER)

New developments in Solid State NMR

13:00-14:00 Koji Yazawa (JEOL)

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

14:00-15:00 Lunch

15:00-16:00 PANEL DISCUSSION ON THE

FUTURE OF SOLID-STATE NMR

Vidrios especiales para la industria

16:00-17:00 Teresa Blasco (ITQ-CSIC)

Algunos ejemplos de aplicación de la RMN en catálisis heterogénea

17:00-18:00 Manuel Sánchez (ICP-CSIC)

RMN de materiales nanoporosos con aplicaciones industriales

October 28th

9:30-10:30 Leoncio Garrido (ICTP-CSIC)

PFG-NMR: Molecular and ionic transport in polymer membranes

10:30-11:30 Ernesto Brunet (UAM)

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

11:30-12:00 Coffee break

12:00-13:00 Juan Miguel López del Amo

(CIC Energigune)

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

15:00-16:00 José Ignacio Santos (SGIker-UPV/EHU)

Estudio de polimorfos de principios activos mediante la técnica de ¹³C CPMAS RMN

14:00-15:00 Lunch

15:00-16:00 Jesús Sanz (ICMM-CSIC)

Applications of NMR in solid electrolytes

16:00-17:00 Juan Miguel López del Amo

(CIC Energigune)

Solid-State NMR of paramagnetic materials

Direction and Organization



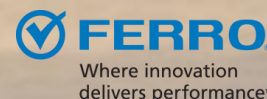
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Sponsors and collaborating institutions



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*
(deadline: Oct. 21th, 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)