Advanced characterization methods of functional solid materials

MAY, 27-31 2019









The characterization of solids is not an easy task, and it is a field that advances in knowledge and new techniques and devices day by day.

When working with functional materials, such as catalysts and adsorbents, there are many aspects necessary to know in order to understand the mechanisms by which these materials perform their function, and therefore how to improve them. For example, it is necessary to know the composition of the surface, something complex in solids especially if they are very porous and heterogeneous. In addition, it is also necessary to analyze such materials under working conditions (reaction, adsorption etc.), and with time-resolved techniques.

All these aspects will be discussed, presented and analyzed by a group of renowned experts with experience in the use of various advanced characterization techniques.

Academic Directors



M. OLGA GUERRERO-PÉREZ (Dep. Ingeniería Química, Universidad de Málaga)



ANTONIA INFANTES-MOLINA (Dep. Química Inorgánica,

Universidad de Málaga)

	15:30 TO 17:30	17:30 TO 18:00	18:00 TO 20:00
MONDAY 27	INTRODUCTION: CHALLENGES OF THE CHARACTERIZATION OF SOLIDS IN THE XXI CENTURY M.OLGA GUERRERO-PÉREZ Universidad de Málaga, Spain		EXPERIMENTAL METHODS IN CHEMICAL ENGINEERIG GREGORY PATIENCE Polytechnique Montreal, Canada
TUESDAY 28	KINETIC METHODS FOR CHARACTERIZATION OF CATALYTIC MATERIALS TED OYAMA The University of Tokyo, Japan		ELECTRICAL CHARACTERIZATION OF MATERIALS AND INTERFACES JOSÉ RAMÓN RAMOS BARRADO Universidad de Málaga, Spain
WEDNESDAY 29	SOLID STATE RMN: APPLICATIONS, EQUIPMENTS AND FUTURE PERSPECTIVES ANTONIA INFANTES - MOLINA Universidad de Málaga, Spain		X-RAY DIFFRACTION TOOLS FOR CHARACTERIZATION OF MATERIALS AURELIO CABEZA DÍAZ Universidad de Málaga, Spain
THURSDAY 30	COOPERATIVE CATALYSIS ON HETEROGENEOUS SURFACES OZ GAZIT Technion, Israel Institute of Technology		MODERN METHODS OF XPS CHARACTERIZATION ENRIQUE RODRÍGUEZ CASTELLÓN Universidad de Málaga, Spain
FRIDAY 31	CHARACTERIZATION OF SOLIDS BY RAMAN SPECTROSCOPY: STATE OF THE ART AND FUTURE PERSPECTIVES I JUAN CASADO CORDÓN Universidad de Málaga, Spain		CHARACTERIZATION OF SOLIDS BY RAMAN SPECTROSCOPY: STATE OF THE ART AND FUTURE PERSPECTIVES II JAVIER RAMIREZ AGUILAR Universidad de Málaga, Spain

Accommodation

A special fare of 25€/night is offered to all the attendants to this course.

Contact with **Karolina Santisteban** for further details:

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Sign up here:

https://bit.ly/2FJQHza

Location

Aulario Severo Ochoa, Universidad de Málaga

