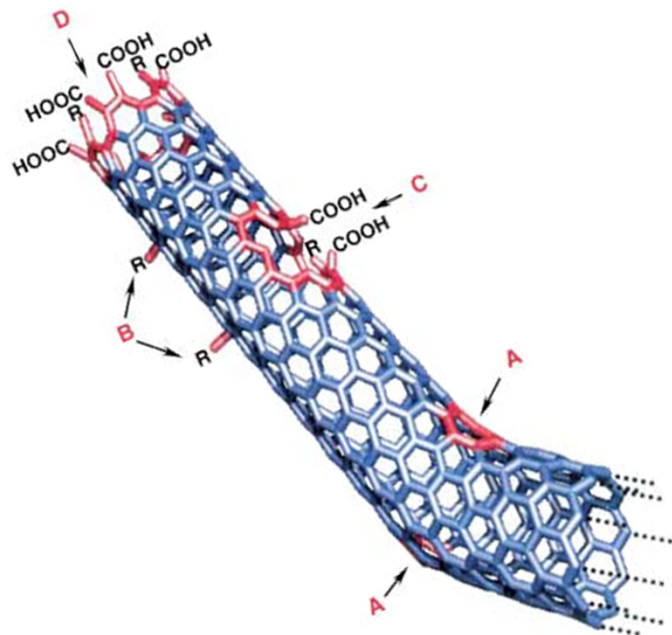


## CARBON 2018 - Satellite Workshop

# CARBON NANO-MATERIALS AND NANO-COMPOSITES

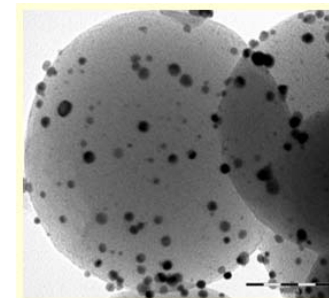
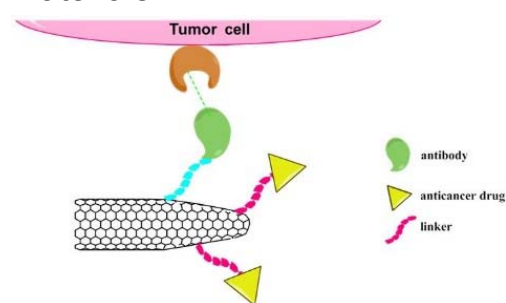


BAEZA, Spain, 7-10 July, 2018

Carbon-based nano-materials are increasingly present in many aspects of current science and technology. These materials present a wide variety of properties with unique applications in different fields of biomedicine, catalysis, or energy such as: drug delivery systems, catalytic reactions, air and wastewater treatment, clean and renewable energies, green chemistry, hydrogen production and storage, energy storage, CO<sub>2</sub> capture and transformation, polymers and new materials...

This Workshop aims to provide the student with a general view of the development of carbon nano-materials, covering both fundamental and applied aspects in the preparation of these materials from different precursors, their characterization through a broad spectrum of experimental techniques and its behavior in different fields of application.

In this line, a block of ten lectures has been programmed that will be taught by several of the leading international experts in the field, and in which the latest advances on the production of different carbon-based nano-materials, such as nanotubes and nanofibers, carbon nanospheres, carbon / metal or carbon / non-metal nano-composites and graphenes will be presented. In parallel, other conferences will address the technological applications of these nano-materials in the environmental, energy, biomedical sector as well as in the development of new materials.



# Lectures

Prof. François Béguin, Poznan University of Technology, Poland.

**Properties of nanocarbons in electrochemical capacitors implementing various electrolytes.**

Prof. Elżbieta Frąckowiak, Institute of Chemistry and Technical Electrochemistry at the Faculty of Chemical Technology, Poznan University of Technology, Poland.

**Advanced materials for electrochemical capacitors.**

Prof. Francisco Jose Maldonado Hódar, Departamento de Química Inorgánica. Universidad de Granada. Spain.

**Optimizing the performance of carbon gels and composites in environmental processes by fitting their physicochemical properties**

Dr. Wolfgang Maser, ICB-CSIC, Zaragoza, Spain

**A travel through the fascinating world of graphene oxide: Challenges and Opportunities.**

Prof. Maurizio Prato, Dipartimento Scienze Chimiche e Farmaceutiche, University of Trieste. Italy.

**Novel carbon-based materials and interfaces: synthesis, properties and applications.**

Prof. Ester Vazquez Fernandez-Pacheco, Departamento de Química Inorgánica, Orgánica y Bioquímica, Universidad de Castilla-La Mancha, Spain.

**Graphene for Bioapplications: Preparation, cytotoxicity and integration in 3D scaffolds.**

Dr. María Victoria Martínez Huerta, Instituto de Catálisis y Petroleoquímica. CSIC. Madrid

**Carbon based nanostructure electrocatalysts for low temperature fuel cells.**

Dr. Zoraida Gonzalez Arias, INCAR-CSIC, Oviedo, Spain

**Tuning the characteristics of graphene materials towards final applications: from energy storage to composite materials.**

## Registration

<https://unia.es/oferta-academica/congresos-jornadas-encuentros-y-otras-actividades-formativas/oferta/item/seminario-carbon-nanomaterials-and-nanocomposites>

Prof. Teresa Bandosz, City College of New York - Department of Chemistry, CUNY, USA

**Enhancement in surface activity of nanoporous carbon via building their composites with GO and g-C<sub>3</sub>N<sub>4</sub>.**

Prof. Juan Matos Lale, Grupo de Materiales Híbridos y de Carbono, Área de Bio-Energía UDT, Universidad de Concepción, Chile.

**Nanoporous Carbon-based materials for the Environmental Remediation and Solar Fuels Production.**

	Friday	Saturday	Sunday	Monday	Tuesday
8:00-9:00		Breakfast	Breakfast	Breakfast	Breakfast
9:00-10:00		Prof. Béguin	Sightseeing Tour	Dr. Maser	Prof. Bandosz
10:00-11:00					
11:00-12:00		Prof. Frąckowiak		Prof. Prato	Prof. Matos
12:00-13:00		Prof. Maldonado			
13:00-14:00			Prof. Vázquez	Panel discussion	
14:00-16:00		Lunch	Lunch	Lunch	Lunch
16:00-17:00	Bus to Baeza			Prof. Vazquez	Bus to Madrid
17:00-18:00				Dr. Martínez	
18:00-19:00					
19:00-20:00				Dr. Gonzalez	
20:00-21:00		Sightseeing Tour	Sightseeing Tour		
21:00-22:00					
22:30	Dinner				



**Course fee: 300 €.** This includes the following concepts: Accommodation, Registration; Reception dinner (Friday 6<sup>th</sup>, evening); Breakfasts & Lunches (Saturday, Sunday, Monday and Tuesday); Sightseeing Tours (Saturday evening and Sunday); and buses from and to Madrid.