

General information:

Public:	last year of Master studies, starting PhD, post docs, professionals
Duration :	3 days: Wednesday, Thursday, Friday, 17, 18, 19 June 2015
	(It is possible to stay in the residence on Saturday and Sunday)
Location:	Instituto de Cerámica y Vidrio, CSIC (lectures)
	Residencia Erasmo of the Universidad Autónoma de Madrid (accommodation)

With the support of



PROGRAM

Day 1: General introduction on ceramics and glass materials, overview of properties, comparison with living hard tissues (bones) and their interaction with biomaterials

AM: from 9.00 to 12:45

9:00	Welcome to the Institute of Ceramic and Glass Fausto Rubio, Director	
9:10	General introduction Francis Cambier (BCRC, Mons, Belgium)	20 min
9:30	1A - Ceramics: a general overview Elisabeth Kupp (Penn State Univ., PA, USA)	1:20 + 10 min q/a
11:00	Coffee break	
11:15	1B - Glasses and glass ceramics: a general overview Maria Jesus Pascual (ICyV, Madrid, Spain)	1:20 + 10 min q/a
13:00	Lunch in the campus restaurant	
PM: fr 14:30	om 14:30 to 19:30 1C - Bone: structure and properties Fernando J Monteiro (INEB, Univ. Porto, Portugal)	1:20 + 10 min q/a
16:00	1D - Biological responses of cells and tissues to biomaterials Marianna Peroglio (AO Fundation, Davoz, Switzerland)	1:20 + 10 min q/a
17:30		
17.50	Coffee break	
17:45	Coffee break 1E - Biocompatibility and <i>in vitro</i> tests <i>Maria Helena Fernandes (FMDUP, Univ. Porto, Portugal)</i>	35 min + 10 min q/a
	1E - Biocompatibility and <i>in vitro</i> tests	



APPLICATION TO BIOCERAMICS & BIOGLASSES

Day 2: Structural ceramics for implants: applications, properties and process

AM: from 9:00 to 13:15

9:00	2A - On the history of bio-ceramics for hip joint replacement <i>Corrado Piconi, (ENEA, Italy)</i>	1:20 + 10 min q/a
10:30	Coffee break	
10:45	2B - The answer of bioceramics to long-term mechanical demands <i>J Chevalier (INSA Lyon, France)</i>	50 min + 10 min q/a
11:45	2C – Spectroscopic analyses for the characterization of bioceramics <i>V Sergo (University of Trieste, Italy)</i>	50 min + 10 min q/a
12:45	Lunch in the campus restaurant	
PM: fr	om 14:30 to 16:00	
14:30	2D - Processing: the industry point of view Meinhard Kuntz (Ceramtec, Germany)	1:20 + 10 min q/a

17:30	Sightseeing nearby Madrid	

21:00 Dinner in a nearside village (bus transportation)

Day 3: Bioactive ceramics and glasses, tissue engineering, surgical procedures

AM: from 9:00 to 13:15

9:00	3A - Calcium phosphate ceramics Maria Pau Ginebra (UPC, Barcelona, Spain)	50 min + 10 min q/a
10:00	3B - Functional bio-glasses and glass-ceramics Richard Brow (Missouri Univ., USA)	50 min + 10 min q/a
11:00	Coffee break	
11:15	3C - Bio-cements Eamonn de Barra (Limerick Univ., Ireland)	50 min + 10 min q/a
12:15	3D - Processing of bioceramic scaffolds: state of the art and current trends - Anne Leriche (Univ. Valenciennes, France)	50 min + 10 min q/a
13:30	Standing lunch at the ICV	
10.00		
	om 14:30 to 17:15 3E - Tissue engineering: concepts and applications Yannis Missirlis (Univ. Patras, Greece)	50 min + 10 min q/a
PM: fr	om 14:30 to 17:15 3E - Tissue engineering: concepts and applications	
PM: fr 14:30	 From 14:30 to 17:15 3E - Tissue engineering: concepts and applications Yannis Missirlis (Univ. Patras, Greece) 3F - Surgical procedures: dental and orthopedic implants Jan Willem Hoekstra (Radboud university, Netherlands) and (1 or 2) orthopedic surgeon(s) to be confirmed (Spain) 	+ 10 min q/a 1:20