

PROGRAM

MONDAY JULY 1 ST		
17:30 – 19:00	Registration and installation in "Domaine de Françon" VTF	
19:30	DINER ON SITE	
TUESDAY JULY 2 ND		
08:20-08:30	INTRODUCTION	
08:30-09:05	Cyril Aymonier ICMCB, CNRS Bordeaux University, Pessac (France) "Synthesis, shaping and recycling of materials in sub- and supercritical fluids"	
09:05-09:40	David Grosso Institut Matériaux Microélectronique Nanosciences de Provence, Toulon (France) <i>"Direct NIL patterning of sol-gel based metal oxides etasurfaces with controlled optical properties; applications in optics, photonics, and sensing"</i>	
09:40-10:35	Nora Ventosa Institute of material science of Barcelona (ICMAB) CSIC (Spain) "CO ₂ -based processing: key enabling technology to bring metal-free nanoparticles from the bench towards the bedside"	
10:15-10:35	COFFEE BREAK	
10:35-11:10	Maria-Letizia De Marco IPCMS, Strasbourg University (France <i>"Electrochemical synthesis of shape-controlled multi-metallic nano-particles for energy</i> <i>conversion applications"</i>	
11:10-11:45	Jaehoon Kim Green Energy Material and Process Lab. (GEMP), Sungkyunkwan University (South Korea) "Design of nanoparticles for direct CO ₂ hydrogenation"	
11:45-12:10	Nikolaos A. I. Nemet Aarhus University (Denmark) "Commissioning Custom Built Flow Reactors to Meet the Demands of Advanced Nanomaterial Synthesis"	
12:10-14:00	LUNCH ON SITE	
14:00-14:35	Benjamin Abecassis Chemistry laboratory – ENS Lynon (France) <i>"Ultrathin Colloidal Nanoplatelets as Soft Matter"</i>	

14:35-15:10	John Watt Los Alamos National Laboratory – Center of Integrated Nanotechnologies (USA) "Controlling and Investigating Materials and their Interfaces with In-situ and Cryogenic Electron Microscopy"
15:10-15:45	Dorota Koziej Universität Hamburg - Nanostructure & solid state physics (Germany) "From nonaqueous synthesis of nanoparticles to photo- and photo-electro-chemically active thin films and 3D-printed aerogels"
15:45-16:20	Brian Korgel McKetta Department of Chemical Engineering, The University of Texas at Austin (USA) "Spanning the Color Gamut from the UV to the Far Infrared with Semiconductor Nanocrystal Quantum Dots"
16:20-16:40	COFFEE BREAK
16:40-17:20	Kirill Kovnir Iowa State University (USA) <i>"Intercalation, Oxidation, and Doping in Hybrid Chalcogenide Materials"</i>
17:20-17h55	Jon G. C Veinot University of Alberta, College of Natural and Applied Sciences - Edmonton (Canada) "Synthesis of high-entropy germanides and an investigation of their formation"
17:55-19:30	FREE TIME
19:30	Diner on site

WEDNESDAY JULY 3RD 08:30-09:05 Tadafumi Adschiri AIMR Tohoku University (Japan) "How to design the nanoparticle synthesis process by supercritical hydrothermal synthesis" 09:05-09:40 **Emilie Pouget** Laboratory « Chimie et biologie des membranes et des nanoobjets » CBMN, Pessac (France) "Design of functional nanostructures via chirality induction" 09:40-10:35 Magali Putero IM2NP, Aix-Maseille Univrsity (France) "Phase change materials: from emerging memories to switchable optics and metasurfaces" 10:15-10:35 COFFEE BREAK 10:35-11:10 **Bo Brummerstedt-Iversen** AARHUS University (Denmark) "Using in situ X-ray scattering to develop novel solvothermal nanoparticle synthesis routes" 11:10-11:45 Mariana Kober Institute of Materials Science of Barcelona (Spain) "Highly stable and bright fluorescent nanovesicles for biomedical applications" 11:45-12:10 **Lars Klemeyer** University of Hamburg (Germany) "Watching the emergence of electronic- and atomic structure of colloidal ZnS nanostructures by X-ray spectroscopy and total scattering."

12:10-14:00	LUNCH ON SITE
14:00-16:30	

supervised by 2 Cesta Punta world champions) - Return by bus from 16:00 to Domaine de Françon VTF

17:00-19:30 **FREE TIME**

20:00 DINER IN A TRADITIONAL BASQUE RESTAURANT IN BIARRITZ ("Bar Jean") Return by bus at 22:30

THURSDAY JULY 4 TH		
08:30-09:05	Jim Watkins University of Massachussetts Amherst - Department of Polymer Science and Engineering (USA) "Additive Approaches to High Performance Metaoptics and Energy Devices"	
09:05-09:40	Cyrille Hamon Laboratoire de Physique des Solides, Orsay (France) "Assembly of plasmonic nanoparticles into supercrystals with unusual symmetries"	
09:40-10:35	Naomi S. Ginsberg University of California, Berkeley (USA) <i>"Following and controlling formation and function of bottom-up assembled nanomaterials"</i>	
10:15-10:35	Coffee Break	
10:35-11:10	Alexis BordetMax Planck Institute MPI CEC (Germany)Title:"Transition Metal Phosphide Nanoparticles: Low-Temperature Synthesis,Characterization, and Application in Catalysis"	
11:10-11:45	Cara Doherty CSIRO Materials Science & Engineering (Australia) Title: "Fabrication of Metal-Organic Framework Based Sensors and Energy Devices"	
11:45-12:10	Cecilia Zito University of Hamburg – Center for Hybrid Nanostructures (Germany) "Combining in situ X-ray methods to study the formation of nanoparticles in solution"	
12:10-14:00	Lunch on site	
14:00-14:35	Lise-Marie Lacroix LPCNO - UPS - Institut Universitaire de France (France) "From the organometallic synthesis of nanoparticles to integrated magnets"	
14:35-15:10	Akira Yoko WPI-AIMR Tohoku University - T. Adschiri Laboratory (Japan) "Extraordinary Atomic Distortion in Ultrasmall Metal Oxide Nanoparticles: Advances in continuous flow hydrothermal synthesis"	
15:10-15:45	Dale Huber CINT, Sandia National Laboratories (USA) <i>"Precisely Controlling Nanoparticle Syntheses: From Molten Metal Baths to Microfluidics and</i> <i>Artificial Intelligence"</i>	
15:45-16:20	Lucian Roiban MatéIS Laboratory, INSA Lyon (France) "2D and 3D Environmental Electron Microscopy in Gas, Liquid and Temperature"	

16:20-16:40	Соггее вкеак
16:40-17:20	David Portehault Laboratory of Condensed Matter of Paris (LCMCP), Sorbonne University, Paris (France) "Reaction mechanisms in molten salts for the design of solid-state materials at the nanoscale"
17:20-17h55	Gilles Philippot ICMCB, Bordeaux University (France) " <i>Mastering ZrO2 nanocrystals polymorphism using an original continuous flow supercritical</i> <i>sol-gel like synthesis.</i> "
17:55-18:30	Jiye Fang Materials Science and Engineering Program (MSE), State University of New York at Binghamton (USA) "Synthesis of Platinum-Based Nano-Octahedra and Their Electrocatalytic Performance in Oxygen Reduction"
18:30-19:30	Free time
19:30	Diner on site

FRIDAY JULY 5TH 08:30-09:05 **Richard Tilley** UNSW Sydney (Australia) "Nanoparticles and Electron Microsocopy" 09:05-09:40 Lucy Gloag Australian National University (Australia) "Hierarchical nanostructures for high performance electrocatalysis" 09:40-10:35 **Eric Hill** University of Hamburg (Germany) "Optically-directed approaches to colloidal assembly at interfaces" 10:15-10:35 COFFEE BREAK 10:35-11:10 Wiktor Lewandoski Warszawski University - Laboratory of organic nanomaterials and biomolecules (Poland) "Engineering Chirality in Nanomaterials Using Liquid-Crystal" 11:10-11:45 Marius V. B. Brix Aarhus University (Denmark) "Utilizing Supercritical Flow Reactors for Studying the Physical Properties of Advanced Nanomaterials" 11:45-12:10 **Glenna L. Drisko** ICMCB, CNRS Bordeaux University (France) "From the redox synthesis of silicon particles to the formation of optically resonant core-shell particles" 12:10-14:00 LUNCH ON SITE AND DEPARTURE