



Telluride 2024

July 1-5, 2024 - Biarritz (France)

PROGRAM

MONDAY JULY 1ST

17:00 – 19:00 Registration and installation in “Domaine de Françon” VTF

19:30 DINER ON SITE

TUESDAY JULY 2ND

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)

“Direct NIL patterning of sol-gel based metal oxides etasurfaces with controlled optical properties; applications in optics, photonics, and sensing”

09:40-10:35 **Jaehoon Kim**

Green Energy Material and Process Lab. (GEMP), Sungkyunkwan University (South Korea)

“Design of nanoparticles for direct CO₂ hydrogenation”

10:15-10:35 COFFEE BREAK

10:35-11:10 **Maria-Letizia De Marco**

IPCMS, Strasbourg University (France)

“Electrochemical synthesis of shape-controlled multi-metallic nano-particles for energy conversion applications”

11:10-11:45 **Nora Ventosa**

Institute of material science of Barcelona (ICMAB) CSIC (Spain)

“CO₂-based processing: key enabling technology to bring metal-free nanoparticles from the bench towards the bedside”

11:45-12:10 **Nikolaos 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 Lyon (France)

“Ultrathin Colloidal Nanoplatelets as Soft Matter”

14:35-15:10	John Watt Los Alamos National Laboratory – Center of Integrated Nanotechnologies (USA) <i>“Controlling and Investigating Materials and their Interfaces with In-situ and Cryogenic Electron Microscopy”</i>
15:10-15:45	Dorota Koziej Universität Hamburg - Nanostructure & solid state physics (Germany) <i>“From nonaqueous synthesis of nanoparticles to photo- and photo-electro-chemically active thin films and 3D-printed aerogels”</i>
15:45-16:20	Brian Korgel Advanced Materials, Polymers and Nanotechnology, Energy - The University of Texas at Austin (USA) Title is coming soon ...
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	Yuhan Xie University of New South Wales (Australia) <i>“Atomical active sites design for electrocatalysts”</i>
17:55-18:30	Jon G. C Veinot University of Alberta, College of Natural and Applied Sciences - Edmonton (Canada) <i>“Synthesis of high-entropy germanides and an investigation of their formation”</i>
18:30-19:30	FREE TIME
19:30	DINER ON SITE

WEDNESDAY JULY 3 RD	
08:30-09:05	Tadafumi Adschiri AIMR Tohoku University (Japan) <i>“How to design the nanoparticle synthesis process by supercritical hydrothermal synthesis”</i>
09:05-09:40	Emilie Pouget Laboratory « Chimie et biologie des membranes et des nanoobjets » CBMN, Pessac (France) <i>“Design of functional nanostructures via chirality induction”</i>
09:40-10:35	Magali Putero IM2NP, Aix-Marseille University (France) <i>“Phase change materials: from emerging memories to switchable optics and metasurfaces”</i>
10:15-10:35	COFFEE BREAK
10:35-11:10	Bo Brummerstedt-Iversen AARHUS University (Denmark) Title is coming soon ...
11:10-11:45	Mariana Kober Institute of Materials Science of Barcelona (Spain) <i>“Highly stable and bright fluorescent nanovesicles for biomedical applications”</i>

11:45-12:10	Lars Klemeyer University of Hamburg (Germany) <i>"Watching the emergence of electronic- and atomic structure of colloidal ZnS nanostructures by X-ray spectroscopy and total scattering."</i>
12:10-14:00	LUNCH ON SITE
14:00-18:00	SOCIAL EVENTS
20:00	DINER IN BIARRITZ

THURSDAY JULY 4 TH	
08:30-09:05	Jim Watkins University of Massachusetts Amherst - Department of Polymer Science and Engineering (USA) <i>"Additive Approaches to High Performance Metaoptics and Energy Devices"</i>
09:05-09:40	Cyrille Hamon Laboratoire de Physique des Solides, Orsay (France) <i>"Assembly of plasmonic nanoparticles into supercrystals with unusual symmetries"</i>
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 Bordet Max Planck Institute MPI CEC (Germany) Title: <i>"Transition Metal Phosphide Nanoparticles: Low-Temperature Synthesis, Characterization, and Application in Catalysis"</i>
11:10-11:45	Cara Doherty CSIRO Materials Science & Engineering (Australia) Title is coming soon ...
11:45-12:10	Cecilia Zito University of Hamburg – Center for Hybrid Nanostructures (Germany) <i>"Combining in situ X-ray methods to study the formation of nanoparticles in solution"</i>
12:10-14:00	LUNCH ON SITE
14:00-14:35	Lise-Marie Lacroix LPCNO - UPS - Institut Universitaire de France (France) <i>"From the organometallic synthesis of nanoparticles to integrated magnets"</i>
14:35-15:10	Akira Yoko WPI-AIMR Tohoku University - T. Adschiri Laboratory (Japan) <i>"Extraordinary Atomic Distortion in Ultrasmall Metal Oxide Nanoparticles: Advances in continuous flow hydrothermal synthesis"</i>
15:10-15:45	Dale Huber CINT, Sandia National Laboratories (USA) <i>"Precisely Controlling Nanoparticle Syntheses: From Molten Metal Baths to Microfluidics and Artificial Intelligence"</i>

15:45-16:20	Lucian Roiban MatéIS Laboratory, INSA Lyon (France) <i>"2D and 3D Environmental Electron Microscopy in Gas, Liquid and Temperature"</i>
16:20-16:40	COFFEE BREAK
16:40-17:20	David Portehault Laboratory of Condensed Matter of Paris (LCMCP), Sorbonne University, Paris (France) <i>"Reaction mechanisms in molten salts for the design of solid-state materials at the nanoscale"</i>
17:20-17h55	Gilles Philippot ICMCB, Bordeaux University (France) <i>"Mastering ZrO2 nanocrystals polymorphism using an original continuous flow supercritical 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) <i>"Synthesis of Platinum-Based Nano-Octahedra and Their Electrocatalytic Performance in Oxygen Reduction"</i>
18:30-19:30	FREE TIME
19:30	DINER ON SITE

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