



Sunday, October 26

6:00-7:00 pm	Registration - "Musée d'Aquitaine" (Bordeaux)
7:00-9:00 pm	Welcome cocktail - "Musée d'Aquitaine » (Bordeaux)

Monday, October 27

7:45 am	Registration – ENSEIRB (Talence)		
8:15 am	Opening ceremony - Main Lecture Hall		
8:30 am	PLENARY SESSION 1 - Main Lecture Hall Pr. Shouhua Feng "Hydrothermal Syntheses of Advanced Materials"		chaired by Pr M Yoshimura
9:15 am	Break		
	Sessoir 1A chaired by Pr K. Byrappa Main Lecture Hall	Session 1B chaired by Pr N. Ventosa Amphi A	Session 1C chaired by Pr E. Lester Amphi D
09:30 am	K1 - Bo Iversen "Watching Nanocrystal Form"	K2 - Jean-Michel Andanson "Ionic liquids for the dissolution of biopolymers: experiments and molecular simulation of a cellulose microfibril"	K11 - Motonobu Goto "Recycling Fiber Reinforced Plastics Using Hydro/Solvothermal Technology"
10:00 am	O1 - Tadafumi Adschiri "Supercritical Route for Materials Synthesis"	O3 - Mathieu Pucheault "Hydrosilylation reaction through Onium Salts stabilized M(0) Nanocatalysts prepared in scCO ₂ "	K4 - Armin Reller "Resource Strategy"
10:15 am	O2 - James J. Watkins "Additive-Driven Self-Assembly of Hybrid Materials and Devices"	O4 - Tomohito Sugihara "Diffusion coefficients of organic compounds in mixture of CO ₂ and methanol at infinitesimal concentration"	
10:30 am	Coffee Break		
	Session 2A chaired by Pr M. Antonietti Main Lecture Hall	Session 2B chaired by Pr B. Korgel Amphi A	Session 2C chaired by Pr C. Serre Amphi D
11:00 am	I1 - Masahiro Yoshimura "Direct Fabrication of Functionalized Graphene Materials by Locally Activated Hydrothermal/Solvothermal Processing via Submerged Liquid Plasma [SLP]"	I2 - Donghai Wang "Solution synthesis and characterization of mesoporous silicon"	I3 - Marinela Miclau "Recent advances in the hydrothermal synthesis of delafossite-type oxides"
11:30 am	O5 - Jaehoon Kim "Reduced Graphene Oxides Synthesis in Supercritical Alcohols and their Electrochemical Performance"	O9 - Xiao Li Zhang "Hierarchical titanium oxide hybrid materials: template-free fabrication and applications"	O11 - Maria Poienar "Hydrothermal synthesis, structure and characterisation of mixed valence iron (II/III) phosphates"
11:45 am	O6 - Niu Wenqi "Pt Nanoparticles Loaded on Reduced Graphene Oxide as an Effective Catalyst for the Direct Oxidation of 5-hydroxymethylfurfural (HMF) to Produce 2,5-Furandicarboxylic Acid (FDCA) under Mild Conditions"	O10 - Junichi Hojo "Mesoporous Silica-Titania with Enhanced Adsorbability and Photocatalytic Activity by Sol-Gel Technique"	O12 - Cekdar Vakifahmetoglu "Zeolite decorated highly porous acicular calcium silicate ceramics"
12:00 pm	O7 - Kenneth Latham "The effect of anion type on the uptake of nitrogen from ammonium salts from carbons produced by the hydrothermal carbonization of sucrose, glucose and fructose"	I4 - Shu-Hong Yu "Multiplex Templating Hydrothermal Synthesis of Functional Nanowires: Macroscopic Assemblies and Their Applications"	O13 - Peng Lu "A New Core-Shell-Like Zeolite Capsule Catalyst for Ethanol Direct Synthesis from Dimethyl Ether and Syngas"
12:15 pm	O8 - Jian Liu "Nanoporous Colloidal Carbon Spheres for Energy Applications"		O14 - Zully Matamorosv Veloza "Influence of some parameters of processing during the hydrothermal synthesis of the silicon substituted hydroxyapatite"
12:30 pm	Lunch		

	Session 3A <i>chaired by Pr R. Tilley</i>	Session 3B <i>chaired by Pr S. Takami</i>	Session 3C <i>chaired by Pr R. Piticescu</i>
	<i>Main Lecture Hall</i>	<i>Amphi A</i>	<i>Amphi D</i>
2:00 pm	K5 - Brian Korgel "Supercritical Synthesis of Silicon and Germanium Nanomaterials"	K6 - Andrew L. Hector "Solvothermal synthesis of metal nitrides using lithium amide and ammonia nitrogen sources in benzene"	K7 - V.N. Kompanichenko "Conversion of Prebiotic Microsystems into Primary Living Units under Oscillating Hydrothermal Conditions: the Inversion Concept"
2:30 pm	O15 - Violetta Georgiadou "Impact on properties of hydrothermally prepared CoFe ₂ O ₄ nanoparticles in the presence of octadecylamine"	O21 - Yuki Maruyama "Synthesis of SrAlSiN ₃ :Ce ³⁺ by ammonothermal method"	O27 - Hongwen Ma "Hydrothermal stabilities of microcline in alkali digestion processes"
2:45 pm	O16 - Daisuke Hojo "Self-assembly and Reassembly of organic-inorganic hybrid nanocrystals synthesized in supercritical hydrothermal condition"	O22 - Jürgen Erlekampf "Numerical time-dependent 3D simulation of flow pattern and heat distribution in an ammonothermal system"	O28 - Kleoniki Giannousi "Hydrothermal Synthesis, Characterization and Antimicrobial Properties of Cu-based Nanoparticles"
3:00 pm	O17 - Wen-Chung Lu "Modulation of Physical And Photocatalytic Properties of (Cr,N) Codoped TiO ₂ Nanorods Using Soft Solution Processing"	O23 - Thomas Steigerwald "Towards the solubility studies in ammonothermal systems"	O29 - Guillaume Thomas "Synthesis of SPIONs functionalized by DHCA, L-DOPA or citric acid under continuous hydrothermal conditions"
3:15 pm	O18 - Kao-Shuo Chang "Exploration of The Piezo-photocatalytic Effect of Nano-structured ZnSnO ₃ "	O24 - Baptiste Giroire "Nitride based quantum dots synthesis"	O30 - Nora Ventosa "CO ₂ -expanded solvents for the preparation of structurally homogeneous nanovesicles with application in nanomedicine"
3:30 pm	O19 - Young Soo Kang "Artificial Photosynthesis Devices Using Hydrothermal Synthesis of Photocatalysts"	O25 - Peter Dunne "The continuous hydrothermal synthesis of metal sulphide nanomaterials"	O31 - K Namratha "One Step Hydrothermal Fabrication of In Situ Surface Modified Metal Oxides Nanoparticles for Biomedical Applications"
3:45 pm	O20 - Yafei Shen "Nickel Nanoparticles In-Situ Generation in Rice Husk Char for Catalytic Conversion of Tar and Vapor Derived from Biomass Pyrolysis"	O26 - Thomas Steigerwald "Corrosion resistance of different superalloys in ammonoacidic environment"	O32 - Benjamin Moreno Perez "Synthesis of Si-Sr-substituted hydroxyapatite by hydrothermal process"
4:00 pm	Coffee Break		
	Session 4A <i>chaired by Pr B. Iversen</i>	Session 4B <i>chaired by Pr S.H. Yu</i>	Session 4C <i>chaired by Pr J. Kim</i>
	<i>Main Lecture Hall</i>	<i>Amphi A</i>	<i>Amphi D</i>
4:30 pm	I5 - Christian Serre "From synthesis, structural analysis and applications of functional porous Metal Organic Frameworks"	I6 - Juan C. Rendon-Angeles "Hydrothermal processing to transform alkaline earth sulphate minerals into inorganic compounds, and its applications."	K8 - Chandramohan George "Olivine type Li _x MnyFe _{1-y} PO ₄ (LMFP) hydrothermal samples vs colloidal LMFP samples: a comparative study"
5:00 pm	O33 - Capucine Sassoie "Fast and Continuous Processing of a new Sub- Micronic Lanthanide-based Metal-Organic Framework"	O37 - Kazumichi Yanagisawa "A Noble Ceramic Powder Preparation Technique in Superheated Water Vapor"	O41 - David Kisailus "Solvothermal Synthesis, Growth Mechanism, and Performance of LiFePO ₄ Nanorods"
5:15 pm	O34 - Alexis Munn "Continuous Hydrothermal Large-Scale Production of ZIF-8"	O38 - Karla Lorena Montoya-Cisneros "Hydrothermal hot pressing densification of doped-magnesium calcium hydroxyapatite fine powders"	O42 - Radu-Robert Piticescu "Hydrothermal/Solvothermal Synthesis of Nanostructured Surfaces for Energy Storage Applications"
5:30 pm	O35 - Muhammad Usman "Hydrothermal Synthesis of a Metal-Organic Framework as Stable Interlayer Dielectric"	O39 - Dirk Müller "Solvothermal densification of thermal sprayed yttria-stabilized zirconia (YSZ) coatings"	O43 - Pengcheng Liu "One-step Hydrothermal Synthesis of NaV ₂ O ₅ Anode Materials for Na-Ion Batteries and its Electrochemical Performance"
5:45 pm	O36 - Nathalie Audebrand "Fluorene and spirofluorene-based MOFs: ligands design, solvothermal syntheses and materials topology"	O40 - Gilles Philippot "SPS processing of BST nanoparticles designed using supercritical fluids"	O44 - Faouzi Sediri "Hydrothermal synthesis, characterization and electrochemical properties of NaV ₂ O ₅ nanoplates"
6:00 pm	Break		
6:15 pm	Roy-Somiya Award – Pr. Shiv Halasyamani "Hydrothermal Synthesis of Functional Inorganic Materials"		<i>chaired by Pr R. Riman</i>
7:00 pm	Poster Session & Cocktail (ENSEIRB Talence) / ISHA Council Meeting		

Tuesday, October 28

8:30 am	PLENARY SESSION 2 - Main Lecture Hall Pr. Markus Antonietti "Hydrothermal Processing of Biomass towards Platform Chemicals, Polymers, and high end carbon materials"			<i>chaired by Pr S. Komarneni</i>
9:15 am	Break			
	Session 5A <i>chaired by Pr J.J. Watkins</i>	Session 5B <i>chaired by Pr Dan Wang</i>	Session 5C <i>chaired by P. Lemaitre</i>	
	<i>Main Lecture Hall</i>	<i>Amphi A</i>		<i>Amphi D</i>
9:30 am	K9 - Clément Sanchez "Bioinspiration as a tool for the controlled design of advanced nanomaterials"	K10 - K. Byrappa "Hydrothermal Process Parameters Vs. Properties Tuning in Metal Oxide Nanoparticles"	K3 - Edward Lester "Scale up challenges with hydrothermal processing"	
10:00 am	O45 - Mitsuo Umetsu "Nanobiotechnology for building up porous metal membrane from nanoparticles"	O47 - Nubuhiko Kumada "Hydrothermal Synthesis of New Bismuth Oxides"	O49 - Cédric Slostowski "Recycling of composite materials using supercritical fluids for the valorization of carbon fibers"	
10:15 am	O46 - Ananda Sannaiah "Synthesis of nano composites of Se-doped ZnO, Nb-doped ZnO, Cr₂O₃ nanoparticles by electrochemical and biological method: Application for anti-microbial, anti-mitotic and photo-catalytic activity."	O48 - Marie-Hélène Delville "Hydrothermal synthesis of metal oxide nanoparticles : control of size morphology and structural phase"	O50 - Ed Lester "Recycling carbon fibre composites using supercritical fluids"	
10:30 am	Coffee Break			
	Session 6A <i>chaired by Pr C. Sanchez</i>	Session 6B <i>chaired by Pr M. Miclau</i>	Session 6C <i>chaired by Pr M. Umetsu</i>	
	<i>Main Lecture Hall</i>	<i>Amphi A</i>		<i>Amphi D</i>
11:00 am	I7 - Sridhar Komarneni "Microwave-hydrothermal synthesis of Tin phosphate"	I8 - Tan Mei-Chee "Design and Synthesis of Nanostructured Optical Composites"	I9 - Patrick Lemaitre "SCWO (SuperCritical Water Oxydation) : Industrial Expertise"	
11:30 am	O51 - Peter C.Y. Chen "Characteristics of Ultra-fast Microwave-assisted Synthesis of Titanium Dioxide Nanocrystalline with low energy budget for Efficient Dye-sensitized Solar Cells"	O55 - Audrey Potdevin "Solvothelmal synthesis of (Y,Gd)PO₄:Tb³⁺ for display applications"	O59 - Asli Yuksel "Acid-Catalyzed Degradation of Biomass with Hydrothermal Electrolysis for the Production of Value-Added Chemicals"	
11:45 am	O53 - Sergey Nikitenko "Sonochemistry Under Hydrothermal Conditions"	O56 - Arkajyoti Chakrabarty "CdSe/CdS quantum dots synthesis in supercritical fluids"	O60 - Hemant Choudhary "Highly Efficient and Reusable Heterogeneous Copper Catalyst for the Synthesis of Value-Added Organic Acids from Inedible Biomass"	
12:00 pm	O52 - Tony Chave "Sonohydrothermal Synthesis of Nanostructured (Ce,Zr)O₂ Mixed Oxides with Enhanced Catalytic Performance"	O57 - Nathalie Pradal "Synthesis and characterizations of Y₃Al₅O₁₂:Tb³⁺ nanopowders and coatings suitable for eco-energetic lighting devices (LEDs)."	O61 - Pascal Fongarland "Hydrothermal conversion of Kraft lignin assisted by Pt-based catalyst in continuous trickle-bed reactor"	
12:15 pm	O54 - Silvia da Silva Egues "Synthesis and functionalization of silica particles with 3-chloropropyltrimethoxysilane assisted by microwave irradiation"	O58 - Chandima Pradeep "Fabrication of CeO₂-ZrO₂ mixed spherical mesoporous nanoparticles in to homogenous, domain and core-shell structures"	O62 - Wael Abdelmoez "Extraction of Oils and Free Fatty Acids From Biomass and Oil Containing Materials in a Pilot Scale Tubular Reactor Using Sub-Critical Water Technology"	
12:30 pm	Lunch			
	Session 7A <i>chaired by Dongwhai Wang</i>	Session 7B <i>chaired by Pr J.C. Rendon-Angeles</i>	Session 7C <i>chaired by Pr C. George</i>	
	<i>Main Lecture Hall</i>	<i>Amphi A</i>		<i>Amphi D</i>
2:00 pm	K12 - Dan Wang "Hydrothermal Technology for Nanostructural Materials"	K13 - Seiichi Takami "Synthesis and Application of Organic-molecule Modified Metal Oxide Nanocrystals"	K14 - Richard Tilley "Synthesis and Applications of Nanoparticles"	
2:30 pm	O63 - Alain Demourgues "Microwave-assisted solvothelmal synthesis of nanofluorides"	O69 - Frédéric Demoisson "The nucleation and growth of hydrothermal ZnO nanoparticles from ambient to supercritical conditions."	O75 - Makoto Kobayashi "Synthesis of magnetite crystals with uncommon facets by hydrothermal method"	
2:45 pm	O64 - Guangsheng Pang "Solvothelmal Synthesis of Defect Pyrochlore KNbWO₆.H₂O and its Ion Exchange Properties"	O70 - Aoki Nobuaki "Supercritical Hydrothermal Nanoparticle Synthesis and Particle Dispersion in Continuous Process"	O76 - Yongnan Zhao "Rationally Fabricating Size Tubable Hollow Micro- and Nanomaterials"	

3:00 pm	O65 - Liping Li "Synthesis and Structural Stability of Bismuth Phosphates Nanocrystals"	O71 - Philipp Zielke "CFD simulations of a two stage CHS reactor for synthesizing core-shell nanoparticles"	O77 - Ranbo Yu "Multi-shelled ceria hollow nanospheres with enhanced catalytic activity"
3:15 pm	O66 - Gu Qilin "Solvothetical Synthesis and Photocatalytic Properties of Nano-sized Sodium Niobate Powders"	O72 - Guangshe Li "Unique Structure and Catalytic Properties of CeO ₂ -based Nanostructures by Hydrothermal Methods"	O78 - Chunhui Wu "Preparation of a novel stereoscopic snowflake-like CoO nanomaterial and its supercapacitor applications"
3:30 pm	O67 - Poupon Morgane "Synthesis of a new non-centrosymmetric oxide with lone pair element Te ⁴⁺ "	O73 - Guohui Yang "Well-designed zeolite capsule catalyst for the controlled synthesis of target product in tandem catalysis process"	O79 - Michael Türk "Supercritical Fluid Reactive Deposition of monometallic (Ag, Au, Pt, Pd) and bimetallic (Au-Ag and Pd-Pt) core/shell nanoparticles on porous substrates"
3:45 pm	O68 - Takahiro Takei "Preparation of Polyoxometalate-Layered Double Hydroxide Composed of Period-Four Transition Metal and Its Catalytic Activity"	O74 - Sandra Hilaire "Microwave-Assisted Nonaqueous Synthesis of WO ₃ Nanoparticles for Crystallographically Oriented Photoanodes for Water Splitting"	O80 - Blanca Motos Preparation of supported catalyst using supercritical CO ₂
4:00 pm	Coffee Break		
4:15 pm	Best PhD award - Dr. Sawanta S. Mali		chaired by Pr K. Byrappa
	Session 8A chaired by Pr T. Mai-Chee	Session 8B chaired by Pr V.N. Kompanichenko	Session 8C chaired by Pr D. Hojo
	Main Lecture Hall	Amphi A	Amphi D
4:30 pm	I10 - Sawanta S. Mali "Hydrothermally processed 1D/3D nanostructured TiO ₂ for efficient solar cells ""	I11 - Roxana Piticescu "Hydrothermal procedures at high pressures applied in nanostructured hybrid biomaterials synthesis"	I12 - Anton Gavrilov "Hydrothermally crystallized copper oxide photocathodes for solar-driven CO ₂ conversion"
5:00 pm	O81 - Satoshi Ohara "Synthesis of Gd-doped Ceria Nanocubes by Organic-Ligand-Assisted Hydrothermal Synthesis for Solid Oxide Fuel Cells"	O84 - Ji Shidong "Progress of the synthesis of VO ₂ by hydrothermal-based approaches and its thermochromic application."	O87 - Devaraju Murukanahally Kempaiah "Supercritical fluid process of high density cathode materials for lithium ion battery applications"
5:15 pm	O82 - Konstantin Volcho "Highly selective stepwise reduction of polynitroarenes using isopropanol as a source of hydrogen in a flow-type reactor in the presence of alumina"	O85 - Shengliang Zhong "Coordination polymers micro/nanomaterials: solvothetical preparation, characterization and properties"	O88 - Jyh-Ming Ting "Facile synthesis of alfa and delta MnO ₂ and their application in supercapacitors"
5:30 pm	O83 - Jun Inagaki "Structural change of PET oligomers with supercritical alcohol"	O86 - Kazuo Yagi "The mechanical properties evaluation and creation of artificial bone composites as the base material biodegradable resin by hydrothermal synthesis method"	O89 - Saburo Hosokawa "Solvothetical Synthesis of Ca ₂ Nb ₂ O ₇ and its Photocatalytic Activity"
5:45 pm	Break		
6:00-6:45 pm	ISHA Lifetime Achievement Award Pr. Gérard Demazeau "Hydro- and Solvothetical Processes : a link between old scientific domains and novel approaches in Solid State Chemistry and Materials Science"		chaired by Pr S. Feng & Pr R. Riman
8:30 pm	Gala dinner – « Palais de la Bourse » (Bordeaux)		

Wednesday, October 29

8:30 am	PLENARY SESSION 3 - Main Lecture Hall Pr. Richard E. Riman "Green materials and Solvothermal Processing - Beautiful Together!"			chaired by Pr S. Feng
9:15 am	Break			
	Main Lecture Hall	Amphi A	Amphi D	
	Session 9A chaired by Dr A. Gavrilov	Session 9B chaired by Pr D. Koziej	Session 9C chaired by Dr C. Slostowski	
	Main Lecture Hall	Amphi A	Amphi D	
9:30 am	K15 - Markus Niederberger <i>"Nonaqueous sol-gel chemistry: From nanoparticles to particle-based aerogels, films and metal foams"</i>	K16 - Richard Walton <i>"Discovery of New Materials from Solvothermal Chemistry"</i>	I13 - Philippe Loubert <i>"Towards Sustainability in the manufacturing and use of nanomaterials - How Life Cycle Assessment can help to measure progress"</i>	
10:00 am	O90 - Qi Feng <i>"Solvothermal Soft Chemical Synthesis of Ferroelectric Mesocrystals"</i>	O92- Damien Clavier <i>"Hydrothermal growth of α-quartz homeotype single crystals"</i>	O94 - Haohan Wu <i>"Recovery of rare earth elements from phosphogypsum"</i>	
10:15 am	O91 - Anastasia Kholodkova <i>"Mechanism of BaTiO₃ formation in hydrothermal conditions"</i>	O93 - Ming Sun <i>"Controllable synthesis of manganese oxides with different crystalline and morphology"</i>	O95 - Michael Tsang <i>"Life Cycle Assessment (LCA) of the Supercritical Production of Barium Titanate Nanomaterials"</i>	
10:30 am	Coffee Break			
	Session 10A chaired by Pr M. Niederberger	Session 10B chaired by Pr R. Walton	Session 10C chaired by Pr P. Fongarland	
	Main Lecture Hall	Amphi A	Amphi D	
11:00 am	I14 - Toshitaka Funazukuri <i>"Advantages on heterogeneous reactions under hydrothermal conditions"</i>	I15 - Shunsuke Asahina <i>"Extremely low voltage Scanning Electron Microscopy for organic-inorganic/nano clusters synthesized by supercritical hydrothermal synthesis"</i>	I16 - Kim Jaehoon <i>"Biofuel Production in Supercritical Fluids"</i>	
11:30 am	O96 - David Muñoz Rojas <i>"Growth of AgCuO₂ single crystals by Heterogeneous Hydrothermal Redox Reactions allowing the study of transport properties using FIB-deposited nano contacts".</i>	O100 - Dorota Koziej <i>"Mechanisms driving the nucleation and growth of nanoparticles in solution: rationale from the in-situ diffraction and absorption studies"</i>	O104 - Bushra Al-Duri <i>"Production of Transport Biofuel Precursors from C6 Sugars: Catalytic Transfer Hydrogenation of 5-hydroxymethylfurfural in Formic acid-Triethylamine to produce Dimethylfuran (DMF)"</i>	
11:45 pm	O97 - Salvador Alfaro <i>"Hydrothermal synthesis of zeolites from clear solutions: Influence of synthesis parameters"</i>	O101 - Claudio Dariva <i>"Near Infrared spectroscopy applied to high-pressure phase behavior measurements"</i>	O105 - Koen Michiels <i>"Production of Hydrogen Gas under mild hydrothermal conditions"</i>	
12:00 pm	O98 - Marina Pigaleva <i>"Polycations in solutions in water saturated with carbon dioxide under high pressure"</i>	O102 - Yoko Akira <i>"Formation Mechanism of Perovskite Nanoparticles under Supercritical Hydrothermal Synthesis"</i>	O106 - Oleg Martyanov <i>"Unusual autocatalytic three-component reaction of supercritical methanol with 1H-indole and silica"</i>	
12:15:pm	O99 - Alain Largeteau <i>"Hydrothermal Crystal growth of Ge :SiO₂ with pure water solvent"</i>	O103 - Samuel Marre <i>"Innovative investigation tool for hydrothermal, solvothermal conditions: high pressure, high temperature microfluidics"</i>	O107 - Okan Akin <i>"Software Simulation of Electrolysis Reactions of Biomass Under Hydrothermal Conditions"</i>	
12:30 pm	Lunch / Farewell			