

PROGRAM SUMMARY

Sunday, October 16

- Welcome & Opening
- Plenary session

Location :

CUM - Mediterranean University Center
65 Promenade des Anglais - 06000 Nice

Monday, October 17

- Conference session
- Poster session

Location :

Negresco Hotel
37 Promenade des Anglais - 06000 Nice

Tuesday, October 18

- Conference session
- Workshops
- Social event in Monaco (only on reservation)

Location :

Negresco Hotel
37 Promenade des Anglais - 06000 Nice

Wednesday, October 19

- Conference session
- Workshops

Location :

Negresco Hotel
37 Promenade des Anglais - 06000 Nice

CONFERENCE PROGRAM

Sunday, October 16

Opening registration : 10:30

Welcome & Opening : 13:30 – 14:20

Plenary lectures:

14:00 – 14:45 : **Kristina Wanieck** - *Biomimetics – Engineering, Creativity, Innovation and Sustainable solutions (PL01)*

14:45 – 15:30 : **Prateep Beed** - NatureTech - how can biosphere inform the technosphere **(PL02)**

Coffe break : 15:30 – 15:50

Plenary lectures :

15:50 – 16:35 : **Bharat Bhushan** - *Bioinspired Mechanically Durable, Superliquiphilic/phobic, Self-Cleaning/Antifouling and Low Drag Surfaces (PL03)*

16:35 – 17:20 : **Phillip Messersmith** - *Hydrogels and Coatings Inspired by Biological Polyphenols (PL04)*

17:20 – 18:05 : **Clément Sanchez** - *Bioinspired Approaches to Advanced Nanostructured Materials (PL05)*

18:05 – 19:00 : **Aperitif**

Monday, October 17

BIOTECH SESSION

	"Baie des Anjes B" Room	"Nation" Room	
	Chairman : Audrey Moores	Chairman : Nicolas Sbirrazzuoli	
		Workshop on "Shaping the future of biobased polyesters from 2,5 furandicarboxylic acid" 08:30 – 11:40	
08:30	Frank Quina Plant Pigments from Vine to Wine: Chemistry and Photophysics of Anthocyanin and Pyranoanthocyanin Model Compounds BIOTECH-KN01	Introduction	08:30
08:55	Satu Strandman Bile Acids: Versatile Building Blocks for Functional Biomaterials BIOTECH-OR01		
09:10	Eder Amayuelas Novel 3D porphyrin-based MOF: designing structural features for dyes and gas adsorption BIOTECH-OR02	Ed de Jong A biorefinery approach to produce FDCA, the building block for the next generation polyester PEF BIOTECH-OR15	9:10
09:25	Aad Lansbergen Renewable imides and their use in alkyd coating resins BIOTECH-OR03	Jacco van Haveren New Biobased Polymers from Furandicarboxylic acid Isomers BIOTECH-OR16	9:35
09:40	Alex Rakotovel Enzymatic depolymerization of lignin for the production of fine chemicals BIOTECH-OR04		9:50
09:55			Andreia F. Sousa Biopolyesters from 2,5-furandicarboxylic acid: towards a more sustainable future BIOTECH-OR17
		Dimitrios Bikiaris Production of bio-based 2,5-furan dicarboxylate polyesters: Recent progress and critical aspects in their synthesis and thermal properties BIOTECH-OR18	10:05
10:20	Coffee break "Salon Royal" room		10:20

	"Baie des Anges B" Room	"Nation" Room	
10:40	<p>John Rabolt Structure and Morphology of Biosynthesized and Biodegradable Polymer Nanofibers, Ultrathin Films and Single Crystals Using AFM-IR and Selected Area Electron Diffraction (SAED) BIOTECH-KN02</p>	<p>Nathanael Guigo Structure-properties relations in the biobased Poly(ethylene furandicarboxylate) BIOTECH-OR19</p>	10:40
		<p>Christelle Combeaud Thermal and mechanical behavior of polyethylene 2,5- furandicarboxylate during stretching BIOTECH-OR20</p>	10:55
11:05	<p>Alina Sionkowska Modification of film-forming properties of natural polymers for cosmetic application BIOTECH-KN03</p>	<p>Roy Visser Biaxial orientation of Poly (ethylene 2,5- furandicarboxylate) BIOTECH-OR21</p>	11:10
11:30	<p>Soren Barsberg Lignin caught in excitement – DFT prediction of lignin Infrared or Raman spectra BIOTECH-OR06</p>		11:25
11:45	<p>Ornella Cavalleri Using spectroscopic ellipsometry to investigate specific/non-specific binding of proteins and DNA-oligonucleotides on self-assembled monolayers on gold BIOTECH-OR07</p>		
12:00	<p>Ayae Sugawara-Narutaki Elastin-Like Block Polypeptides Assembling into Beaded Nanofibers BIOTECH-OR08</p>		
12:15	<p>Thi Nga Tran Fabrication and Performance of Starch-based Bio-elastomers Functionalized with Red Beetroot Natural Antioxidant BIOTECH-OR09</p>		
12:30	Free time		

	"Baie des Angers B" Room	"Nation" Room
	Chairman : Alina Sionkowska	Chairman : Ed de Jong
14:10	<p>Zhongyi Jiang - Withdrawn Biomimetic and Bioinspired Membranes BIOTECH-KN04</p>	<p>Henri Cramail (replaced by Océane Lamarzelle) Fully bio-based Non-Isocyanate Polyurethanes (NIPU) via cyclic carbonate/amine route BIOTECH-KN06</p>
14:35	<p>Seyda Polat Improving Osteoconductivity and Antibacterial Properties of PEEK by Coating with Layered Thin Films BIOTECH-OR10</p>	<p>Seunghwan Lee Complexation of mucins with polycations and its influence on the lubricity at the interface BIOTECH-OR22</p>
14:50	<p>Serap Gümüs The Effect of Doping Ag with Pt on the Antibacterial Activity of Biomimetic Functionally-Graded Thin Films BIOTECH-OR11</p>	<p>Fabricio Machado Styrene / Glycidyl Ester Suspension Copolymerizations BIOTECH-OR23</p>
15:05	<p>Juliette Merle Valorization of Kraft black liquor as one of the main component for porous material BIOTECH-OR12</p>	<p>Arkaitz Fidalgo-Marijuan Metalloporphyrin based Solid Coordination Frameworks: mimicking the natural properties BIOTECH-OR24</p>
15:20	<p>Maryline Nasr Oxides membranes by electrospinning for photocatalytic applications BIOTECH-OR13</p>	<p>Monika Bach clickECM – a new approach to covalently immobilize human ECM on artificial surfaces BIOTECH-OR25</p>
15:35		<p>Rime Ganfoud Strategies to fine-tune the properties of polybenzoxazine BIOTECH-OR26</p>
15:50	<p>Coffee break "Salon Royal" room</p>	
16:10	<p>Poster session "Salon Royal" room</p>	
18:00		

NANOTECH SESSION

	"Versailles" Room	"Masséna" Room
	<u>Chairman</u> : Junping Zhang	<u>Chairman</u> : Olli Ikkala
08:30	<p>Joachim Bill Generation of inorganic functional materials by molecular bionics NANOTECH-KN09</p>	<p>Francesco Stellacci Nanoparticles and Viruse NANOTECH-KN13</p>
08:55	<p>Holger Frauenrath Order and Disorder in Soft Matter Design NANOTECH-KN10</p>	<p>Anna Tampieri (replaced by Simone Sprio) Nature-inspired innovative processes to generate smart materials for health NANOTECH-KN14</p>
09:20	<p>Virginie Hugouvieux Structuring of polymer gels via catalytic reactions NANOTECH-OR31</p>	<p>Valtencir Zucolotto Theranostic Nanomaterials for Application as Hyperthermia Agents for Cancer Therapy NANOTECH-OR37</p>
09:35	<p>Guy Mechrez Biocatalytic Carbon Nanotube Film: One-Step Method for Fabrication of Enzyme-Immobilized Membranes for Organophosphates Bioremediation NANOTECH-OR32</p>	<p>Virginie Sottile Integrated multimodal culture platform to enable large scale drug screen for stem cell chondrogenesis NANOTECH-OR38</p>
09:50		<p>Patrizia Andreozzi Virosome Engineering of Colloidal Particles and Surfaces: Bioinspired Fusion to Supported Lipid Layers NANOTECH-OR39</p>
10:05		<p>Oliver Strube Enzyme Mediated Autodeposition NANOTECH-OR40</p>
10:20	<p>Coffee break "Salon Royal" room</p>	
10:40	<p>Nicholas Abbott Biologically-Inspired Design of Hydrophobic Interactions using Chemical Nanopatterns NANOTECH-KN26</p>	<p>Nicholas Kotov Biomimetic Nanoparticles and Chiral Nanoscale Assemblies NANOTECH-KN15</p>

	"Versailles" Room	"Masséna" Room	
11:05	<p>Jas Pal Badyal Bioinspired Water Harvesting NANOTECH-KN07</p>	<p>Jean-Luc Blin Mixed Fluorinated and Triblock Copolymer Liquid Crystals: Imprint for Dual Mesoporous Silica and Titania NANOTECH-OR41</p>	11:05
11:30	<p>Elisa Martinelli Nanostructure self-assembly and water responsiveness of amphiphilic surface-active polymers for biological applications NANOTECH-KN08</p>	<p>Irene Yarovasky Molecular modelling of gold nanoparticles for biomedical applications: successes and challenges NANOTECH-OR42</p>	11:20
11:55	<p>Mariarosa Raimondo Amphiphobic industrial materials: design, drop dynamic and applications NANOTECH-OR27</p>	<p>Nonappa 3D Visualization of self-assembled colloidal superstructures NANOTECH-OR43</p>	11:35
12:10	<p>Hiroshi Endo Nature Inspired Multifunctional Wrinkle Film Based on Buckling Instability NANOTECH-OR28</p>	<p>Jing Song Au Nanoparticles by Direct Reduction of HAuCl₄ Using Redox Active Poly(Ferrocenylsilane) Polyelectrolytes: Synthesis, Colloidal Stability and Application NANOTECH-OR44</p>	11:50
12:25	<p>Alexander Davis Facile Method of Producing Surfaces with Wetting Contrast for Fog Harvesting NANOTECH-OR30</p>		12:05
12:40	Free time		

	"Versailles" Room	"Masséna" Room	
	Chairman : Joachim Bill	Chairman : Francesco Stellacci	
14:10	<p>Avi Marmor From ocean foam to clouds to nanobubbles NANOTECH-KN11</p>	<p>Olli Ikkala Bioinspired Materials towards Functions and Devices NANOTECH-KN16</p>	14:10
14:35	<p>Junping Zhang Durable superamphiphobic coatings with low sliding angle NANOTECH-KN12</p>	<p>Iryna Polishchuk From Biomineralization to Bio-Inspired Routes for Controlling the Structure and Properties of Materials: Reusing proven tricks on new material NANOTECH-OR46</p>	14:35
15:00	<p>Doris Vollmer Motion of drops on lubricant infused surfaces NANOTECH-OR34</p>	<p>Juergen M. Lackner Foraminifera as biomimetic archetype of multi-layered hard coatings on soft substrates NANOTECH-OR47</p>	14:50
15:15	<p>Hervé Bellanger Assessment of Layer-by-Layer build-up on wood for surface modification and protection NANOTECH-OR35</p>	<p>Selma Chraibi Study and Analysis of thermo-mechanical properties of a nanocomposite reinforced with 115a bioburden NANOTECH-OR48</p>	15:05
15:30	<p>Gabriela Ramos Chagas Hydrophobicity and water adhesion from nanotubes to nanospheres of structured polymeric surfaces NANOTECH-OR36</p>	<p>Hajji Rabiaa Lignocellulose Cryogel from Flax fibers–Ionic liquid Solution under Freeze drying NANOTECH-OR49</p>	15:20
15:45			15:35
15:50	<p>Coffee break "Salon Royal" room</p>		15:50
16:10	<p>Poster session "Salon Royal" room</p>		16:10
18:00			

SMARTTECH SESSION

"Baie des Anges A" Room	
Chairman : Nicholas Kotov	
08:30	<p>Friederike Saxe An ontology-based web platform for the identification of model systems from historical biological data for bio-inspired materials research SMARTTECH-OR50</p>
08:45	<p>Mirosława Lapray A Science & Business Equation for "Bio-Inspired" Innovation SMARTTECH-OR51</p>
09:00	<p>Catarina Esteves Stimuli-responsive polymer coated cotton fibers SMARTTECH-KN17</p>
09:25	<p>Atsushi Hozumi Bio-inspired Smart Surfaces Showing Anti-X Properties SMARTTECH-KN18</p>
09:50	<p>Luca Nucara Ionic Strength Responsive Sulfonated Polystyrene Colloidal Crystals SMARTTECH-OR52</p>
10:05	
10:20	<p>Coffee break "Salon Royal" room</p>
10:40	<p>Valentine Vullev Bioinspired Molecular Electrets SMARTTECH-KN19</p>
11:05	<p>Cornelia G. Palivan Smart self-assembled functional nanosystems: Polymer membranes decorated with proteins SMARTTECH-OR53</p>
11:20	<p>Thomas Schäfer DNA-Based Gating Membranes and Nanodevices SMARTTECH-OR54</p>

"Baie des Anges A" Room	
11:35	<p>Monica Sandri Biopolymeric porous material: Nature inspires a new generation of Heat and Moisture exchange device for medical applications SMARTTECH-OR55</p>
11:50	<p>Tomaz Einfalt Biomimetic engineering of stimuli responsive artificial cell organelle membranes SMARTTECH-OR57</p>
12:05	Free time
Chairman : Valentine Vullev	
14:10	<p>Marleen Kamperman Mussel-Inspired Polymer Coatings SMARTTECH-KN20</p>
14:35	<p>Xuehong Lu Mussel Adhesive-Inspired Organic-Inorganic Hybrid Nanomaterials: Structures, Morphologies and Potential Applications SMARTTECH-KN21</p>
15:00	<p>Daniel Ruiz-Molina Polymerization of Catechols with Ammonia: A Successful Approach for Biocompatible Polydopamine-like Coatings and Nanoparticles of Relevance in Health and Environmental Applications SMARTTECH-OR58</p>
15:15	
15:50	Coffee break "Salon Royal" room
16:10	Poster Session "Salon Royal" room
18:00	

Tuesday, October 18

BIOTECH SESSION

"Baie des Anges A" Room	
<u>Chairman</u> : John Rabolt	
8:30	<p>Di Zhang Morphology-genetic materials inspired from nature species BIOTECH-KN22</p>
8:55	<p>Raz Jelinek Functionalized Carbon Quantum Dots for biological Studies BIOTECH-KN23</p>
9:20	<p>Nino Zavrashvili Biodegradable cationic polymers composed of spermine and arginine: synthesis, cell compatibility, and biological activity BIOTECH-OR59</p>
9:35	<p>Fatima Habti Modified Quechers Method For Detection Of Pesticide Residues In Bivalves BIOTECH-OR60</p>
9:50	<p>Joana Gjipalaj Synergistic effect of carbon dots and TiO₂ beads for enhanced adsorption and photodegradation of micropollutants BIOTECH-OR61</p>
10:05	<p>Steffi Deuerling Guided Biotemplating: Phototactic Structuring of Polysaccharides by Microalgae BIOTECH-OR62</p>
10:20	<p>Coffee break "Salon Royal" room</p>
10:40	<p>Georges Belfort Thiazoline Ring Formation in an Engineered Intein Serves as a Splicing Switch For Single Step Purification Platform BIOTECH-KN24</p>
11:05	<p>Florence Popowycz Isohexide, an unexpected multifaceted platform BIOTECH-KN25</p>

"Baie des Anges A" Room	
11:30	<p>Pierre Verge Naturally occurring phenolic compounds as building blocks for the elaboration of high performance thermosets: insight into the versatile design of asymmetric benzoxazines BIOTECH-OR63</p>
11:45	<p>Achim Weber Nanofibrillated cellulose produced from residual biomass from lignocellulose biorefineries BIOTECH-OR64</p>
12:00	<p>Souha Tohme Coproduct of Pha and Levan from waste resources by halophilic Bacteria BIOTECH-OR65</p>
12:15	<p>Halima Rabib Total phenolic content and antioxidant activity of a medicinal plant: Tetraclinis articulata (Vahl) Masters originating from the two different regions (Morocco) BIOTECH-OR66</p>
12:30	<p>Shahrzad Khoramnejadian Photodegradation of Rice starch based Low Density Polyethylene BIOTECH-OR67</p>
12:45	

NANOTECH SESSION

	"Baie des Anges B" Room	"Versailles" Room	"Masséna" Room
	Chairman : Elisa Martinelli	Chairman : Jas Pal Badyal	Chairman : Tao Deng
8:30	Thierry Darmanin Superhydrophobic and Superoleophobic Nanostructured Conducting Polymer Films: From Nanofibers to Nanotubes NANOTECH-KN27	Robin Ras Designing Surfaces that are Superhydrophobic under Oil and Superoleophobic under Water NANOTECH-KN29	
8:55	Yongmei Zheng Bioinspired wettability-controlled surfaces with gradient micro- and nanostructures NANOTECH-OR68	Tak-Sing Wong Nature Inspired Super Slippery Surfaces NANOTECH-KN30	Audrey Moores Atom economy in Nanoscience: Biomass as an avenues to access metal nanoparticles NANOTECH-KN31
9:10	Ljiljana Puskar Water interactions in Nafion polymer membrane doped with Nanodiamonds of different surface functionalities NANOTECH-OR69		
9:25	Caroline Szczepanski Phase Separation-Induced Surface Roughness: A One-Step Approach to Tune Surface Wettability NANOTECH-OR70	9:20 Guilhem Godeau Surface post-functionalization, an efficient tool for super hydrophobic surfaces elaboration NANOTECH-OR77	Anupama Sharma Nee Kaushik High Performance Materials from Nanocellulose derived from Waste Lignocellulosic Biomass NANOTECH-KN33
9:40	Paola Orsolini Superhydrophobic nanofibrillated cellulose substrates NANOTECH-OR71	9:35 Marta Vidiella del Blanco Tuning wood surface wettability by grafting-from ATRP NANOTECH-OR78	
9:55	Claudio Mortier A bio-inspired approach for nanostructured polymers with various water repellency properties and adhesion NANOTECH-OR29	9:50 Ching-Yu Yang Hierarchically Stalagmite-like Nanostructures with Selective Super-antiwettability for Effective Oil/Water Separation NANOTECH-OR79	
10:10		10:05 Birgitt Stogin Wetting and Evaporation Characteristics of Bioinspired Slippery Rough Surfaces NANOTECH-OR80	9:45 Theo van de Ven Hairy Nanocellulose: A Novel Class of Nanocellulose Particles NANOTECH-OR89
10:20	Coffee break "Salon Royal" room		

	"Baie des Anges B" Room	"Masséna" Room	"Versailles" Room	
10:40	<p>Mikhael Bechelany Engineering of biobased nanostructured interfaces: properties and applications NANOTECH-KN28</p>	<p>Jennifer N. Cha - Withdrawn Enhanced Fuel Production from DNA Assembled Z-scheme Photocatalyst Systems NANOTECH-KN34</p>	<p>Philippe Barthelemy Bioinspired systems for the decontamination of nanoparticles NANOTECH-OR81</p>	10:40
			<p>Jun Onoe Adsorption Mechanisms of Metal Ions to Prussian Blue Nanoparticles for Disposal of High-Level Radioactive Nuclear Waste NANOTECH-OR82</p>	10:55
11:05	<p>Pierre Schaaf Surface Localized Enzyme Assisted Self-Assembly NANOTECH-OR72</p>	<p>Jean-Luc Blin Lipase Immobilization onto Meso-Macroporous and Dual Mesoporous Silica Materials Prepared from Various Surfactant-Based Systems NANOTECH-OR91</p>	<p>Rachel Woods Development of photocatalytic coatings on glass and steel supports for wastewater treatment: Challenges in up-scaling and reactor design NANOTECH-OR83</p>	11:10
11:20	<p>Paul Van Tassel Layer-by-layer assembled polyelectrolyte films as porous biomolecular delivery system NANOTECH-OR73</p>	<p>Gian Paolo Salvador A green approach to nitrogen-doped carbon aerogels for oxygen reduction in microbial fuel cells NANOTECH-OR92</p>	<p>Despina Fragouli Biopolymers for water remediation NANOTECH-OR84</p>	11:25
11:35	<p>Wenli Deng Bioinspired fabrication in micro/nano-scale based on the adhesive effect of climbing plant and molecular self-assembly of synthesized compounds NANOTECH-OR74</p>	<p>Chantal Karam Elaboration and characterization of urchin-like zinc oxide nanowires for photovoltaic applications. NANOTECH-OR93</p>	<p>Monika Bach Chitosan based nanoparticles for adsorption of micropollutants NANOTECH-OR85</p>	11:40
11:50	<p>H. Daniel Wagner Inspirational Multiscale Natural Structures NANOTECH-OR152</p>	<p>Sophie Tingry A wireless sensor powered by a flexible microfluidic enzymatic biofuel cell NANOTECH-OR94</p>	<p>Nathalie Tanchoux Alginate foams with hierarchical porosity: Promising materials for dyes adsorption NANOTECH-OR86</p>	11:55
12:05	<p>Kajsa Markstedt 3D Printing for Mimicking Plant Cell Wall Assembly NANOTECH-OR75</p>	<p>Gian Paolo Salvador Carbon-based aerogels as green materials for a green technology: microbial fuel cells NANOTECH-OR95</p>	<p>Hind Argani Influence of temperature on cationic dye sorption from synthetic aqueous solution using Moroccan phosphate raw: dynamic regime NANOTECH-OR87</p>	12:10
12:20	<p>Chih-Chung Lai Synthesis of Binary Metal Alloy Nanoparticles with Tunable Endothermic Properties NANOTECH-OR76</p>	<p>Leïla Bonnaud High performance bio-based benzoxazine thermosets from renewable resources NANOTECH-OR33</p>	<p>Said Sabir Treatment of wastewater by adsorption on raw ore graphite (deposit point 214-area Sidi Bouothmane - Marrakech) NANOTECH-OR88</p>	12:25
				12:40

SMARTTECH SESSION

"Nation" Room	
Chairman : Marleen Kamperman	
08:30	<p>Zhiguang Guo Biomimetic Multi-Functional Superamphiphobic FOTS-TiO₂ Particles Inspired from Lotus Leaf SMARTTECH-KN35</p>
08:55	<p>Marc Cretin (replaced by Thi Xuan Huong Le) Fuel Cell-Fenton system: a smart approach for water depollution SMARTTECH-OR96</p>
09:10	<p>Doris Vollmer Water Drop Condensation on a Lubricant-Impregnated Surface SMARTTECH-OR97</p>
09:25	<p>Santiago J. Garcia Diatoms for the active corrosion protection of aircraft structures SMARTTECH-OR98</p>
09:40	<p>Simone Ghio Low drag and superhydrophobic surfaces combining hierarchically lotus leaf and sharkskin inspired structures SMARTTECH-OR99</p>
09:55	<p>Laura Piedad Chia Gomez Rapid prototyping of chemical microsensors based on molecularly imprinted polymers synthesized by 2-photon stereolithography SMARTTECH-OR100</p>
10:10	
10:20	<p>Coffee break "Salon Royal" room</p>
10 :40	<p>Hung Nguyen Rational design of stimuli-responsive biomaterials using multiscale simulations SMARTTECH-KN36</p>
11:05	<p>Stephen Donaldson Strong adhesion in underwater systems: hydrophobic, electrostatic, and dynamic polymer forces SMARTTECH-OR101</p>

"Nation" Room	
11:20	<p>Ana-Maria Bargan (replaced by Alice Mija) Mesoporous bioresorbable organic-inorganic matrix for drug release SMARTTECH-OR102</p>
11:35	<p>Jagadish Chandra Roy The Influence of pH, Concentration Ratio and Temperature on Bioencapsulation formulation and morphology of microcapsule shell SMARTTECH-OR103</p>
11:50	<p>Mihai Lomora 'Smart' surfaces as sensors for detection of pH changes SMARTTECH-OR104</p>
12:05	<p>Hannes Gumz Smart polymersomes: Tunable pH-sensitivity and enzyme encapsulation SMARTTECH-OR105</p>
12:20	<p>Gregor Tegl Antimicrobial chitosan particles by the aid of cellobiose dehydrogenase SMARTTECH-OR106</p>
12:35	

Wednesday, October 19

BIOTECH SESSION

	"Baie des Anges A" Room	"Baie des Anges B" Room	
	Chairman : Georges Belfort	Chairman : Ralph Nuzzo	
08:30	Liquan Zhang (replaced by Xinxin Zhou) Biobased and bioinspired elastomers with functional performance BIOTECH-KN37	Thomas Scheibel Biomimetic spider silk fibers with natural mechanical properties BIOTECH-KN42	08:30
08:55	Mariam Benhadou Experimental study of Relaxation Behavior of Injected Composites with Polypropylene/Short Hemp fibers BIOTECH-OR109	Pascal Jonkheijm Dynamic cell-material interactions BIOTECH-KN43	08:55
09:10	Mariam Benhadou Injection molding of biocomposites based on short Alfa fibers BIOTECH-OR110		09:20
09:25	Gilmary Gallon Versatile vegetable oil-based materials by sol-gel chemistry BIOTECH-OR111	Peng Yang Multifunctional and Universal Proteinaceous Coating Inspired by Amyloid-Mediated Bioadhesion BIOTECH-OR123	09:20
09:40	Najia Ourhiss Synthesis of new Thiadiazol Atlanton Issus from essential oil of Cedrus Atlantica BIOTECH-OR05		Giovanni Perotto Wool Keratin, multifunctional proteins for multifunctional materials BIOTECH-OR124
		Jana Segmehl Hierarchical structured lignocellulosic scaffolds for functional hybrid materials BIOTECH-OR125	09:50
10:05	Coffee break "Salon Royal" room		10:05
10:25	Insung Choi Neurons on Nanotopographies BIOTECH-KN38	Richard Parker Hierarchical Self-assembly of Cellulose in a Confined Geometry BIOTECH-KN44	

	"Baie des Anges A" Room	"Baie des Anges B" Room	
10:50	<p>Karsten Haupt Bioimaging with plastic antibodies BIOTECH-KN39</p>	<p>Emmanuel Belamie Self-assembly of bio-inspired nanocomposites from chitin nanoparticles and colloidal inorganic species BIOTECH-OR126</p>	10:50
11:15	<p>Markus Linder Biomimetic protein modules for molecular design of materials BIOTECH-OR112</p>	<p>Etienne Cabane Functional Lignocellulosic Materials: Engineering Smart Bio-Hybrids from a Natural Anisotropic Scaffold BIOTECH-OR127</p>	11:05
11:30	<p>Tongxiang Fan Butterfly-scale Architected Gold for Electrochemical Detection of Glucose BIOTECH-OR113</p>	<p>Julien Bras Bio-inspired compatibility in nanocellulose - based biocomposites BIOTECH-OR128</p>	11:20
11:45	<p>Anne Charrier Attomolar detection using field effect transistor ion sensor with nanometric lipid layer gate insulator BIOTECH-OR114</p>	<p>Laurent Corté Synthetic hydrogel fibers mimicking ligament tissues BIOTECH-OR129</p>	11:35
12:00		<p>Miryam Criado Assembly of biobased hybrid polymer films for applications in magnetic hyperthermia BIOTECH-OR130</p>	11:50
12:05	Free time		12:05
	Chairman : Insung Choi	Chairman : Pascal Jonkheijm	
14:10	<p>Céline Pochat Design of novel bio-based membranes made with gelatin BIOTECH-KN40</p>	<p>Ralph Nuzzo Biologically Compliant 4D Printing BIOTECH-KN45</p>	
14:35	<p>Roberto Milani Antifouling coatings for optoacoustical cochlear implants BIOTECH-OR115</p>	<p>Katsiaryna Prudnikova The Effect of Biomimetic Proteoglycans on Collagen Self-Assembly BIOTECH-OR131</p>	
14:50	<p>Isabel Jimenez-Pardo Hydrophilic polymer networks: model systems for self-replenishing anti-fouling coatings BIOTECH-OR116</p>	<p>Louise Serpell Developing amyloid fibrils as nano-biomaterials BIOTECH-OR132</p>	

	"Baie des Anges A" Room	"Baie des Anges B" Room
15:05	<p>Elena Ozzello Antifouling behavior of photo-crosslinked acrylic coatings BIOTECH-OR117</p>	<p>Mima Kurian Mechanical properties of 3D printed bone-like biopolymer composites inspired by nacre BIOTECH-OR133</p>
15:20	<p>Zineb Rhandour Antibacterial and antifungal activity of the marine sponge collected from the Moroccan Atlantic coasts: <i>Ircinia spinulosa</i> BIOTECH-OR118</p>	<p>Chenze Lu Target induced dna self-assembling: detection of small targets by dna network formation BIOTECH-OR134</p>
15:35	<p>Doha Barrani Evaluation of the acute toxicity of Pb and Zn by the selection test on the filter paper in the earthworm <i>Lumbricus terrestris</i> BIOTECH-OR119</p>	<p>Andreia Pimenta Surface modification of intraocular lens by plasma grafting of AMPS and SBMA to control moxifloxacin release BIOTECH-OR135</p>
15:50	<p>Coffee break "Salon Royal" room</p>	
16:10	<p>Joël Barrault Catalysis-based ecoefficient processes for biobased products, a few examples BIOTECH-KN41</p>	<p>Taolei Sun Chiral Polymeric Biointerface Materials--From Recognition to Bio-Function BIOTECH-KN46</p>
16:35	<p>Brian Callahan Hedgehog terminal transferase, a tolerant catalyst for bioconjugation BIOTECH-OR120</p>	<p>Benjamin Hatton Engineering surfaces to prevent bacterial attachment BIOTECH-OR136</p>
16:50	<p>Cristina Lavilla Sequence-controlled polypeptides from α-Amino Acid-N-Carboxyanhydrides BIOTECH-OR121</p>	<p>Belkassem El Amraoui Haliscosamine: a new antifungal sphingosine derivative from the Moroccan marine sponge <i>Haliclona viscosa</i> BIOTECH-OR137</p>
17:05	<p>Fatima Zahra Beraich Synthesis And Characterization Of A Biological Accelerator For Anaerobic Digestion BIOTECH-OR122</p>	<p>Niki Baccile Biocidal properties of engineered glycosylated surfaces BIOTECH-OR138</p>
17:20		<p>Frédéric Brunel Antimicrobial activities of fluorescent Nanoparticles derived from triphenylamine phosphonium ionic liquid BIOTECH-OR139</p>

NANOTECH SESSION

	"Versailles" Room	"Masséna" Room	
	Chairman :Adam Mechler	Chairman : Vladimir Tsukruk	
08:30	<p>John Dutcher Structure and Hydration of Highly-Branched, Monodisperse Phytoglycogen Nanoparticles NANOTECH-KN47</p>	<p>Tao Deng Localized Energy Conversion Inspired by Biological System NANOTECH-KN52</p>	08:30
08:55	<p>Federica Lo Verso Designing a New Class of Functional Soft Materials through Single Chain Nanoparticles NANOTECH-KN48</p>	<p>Cefe López Transport and emission of light in disordered self-assembled materials NANOTECH-KN53</p>	08:55
09:20	<p>Issam Derkaoui Electrical and optical properties of vanadium oxide based nanocomposites prepared by hydrothermal synthesis NANOTECH-OR140</p>	<p>Yanlin Song Green Printing Nano-technology for Manufacturing Photonics and Electronics NANOTECH-OR54</p>	09:20
09:35	<p>Nikos Tsierkezos Electrochemical analysis of biomolecules on nitrogen-doped carbon nanotubes decorated with metal nanoparticles NANOTECH-OR141</p>	<p>Hortense Le Ferrand Bio-inspired hierarchical graphene-based composites for optoelectronic devices NANOTECH-OR155</p>	09:45
09:50	<p>Zahraa Al-Garawi Stable Silica Nanowires Templated by Amyloid-like Fibrils NANOTECH-OR142</p>		10:00
10:05	<p>Coffee break "Salon Royal" room</p>		
10:25	<p>Damien Quemener Collective bursting of self-assembled ABA triblock copolymer vesicles: a new bioinspired route to isoporous polymer materials NANOTECH-KN49</p>	<p>Vadim Kessler Metal oxide nanoparticles and nanostructures as functional constituents in smart drug delivery systems NANOTECH-KN55</p>	
10:50	<p>Seema Kapoor Synthesis and Structural, Thermal and In-Vitro Analysis of Potassium, Manganese and Zinc Substituted Nanodimensional Hydroxyapatite NANOTECH-OR143</p>	<p>Olga Philippova Modified Perfluorocarbon Nanoparticles for Dual-Modal Magnetic Resonance Imaging NANOTECH-OR156</p>	
11:05	<p>Ludovic Schneider Light-assisted synthesis of metal nanoparticles and nanocomposites NANOTECH-OR144</p>	<p>Maria Asensio Electronic and chemical imaging of bioinspired materials NANOTECH-OR157</p>	

	"Versailles" Room	"Masséna" Room
11:20	<p>Denis Anokhin Designing the topology of nano-channels in ion-conductive polymer membranes by self-assembly of wedge-shaped mesogens NANOTECH-OR145</p>	<p>Mualla Öner Processing and characterization of bionanocomposites of poly(3-hydroxybutyrate-co-hydroxyvalerate) and Boron Nitride NANOTECH-OR158</p>
11:35	<p>Sébastien Balme Proteins and amyloids detection using solid-state nanopore NANOTECH-OR146</p>	<p>Kheyria Sbissi New complex magnetic materials for an application in refrigerator NANOTECH-OR159</p>
11:50	<p>Abhijeet Anand Conversion of rice bran (<i>Oryza sativa</i> L.) oil into bio-based resin for further utilization in two pack polyurethane (2K-PU) nano-composite anticorrosive coatings: An eco-friendly approach NANOTECH-OR147</p>	<p>Chun-Ling Chang Analysis of nanoparticle contamination in ammonia gas by single-particle inductively coupled plasma-mass spectrometry NANOTECH-OR160</p>
12:05	Free time	
	Chairman : Yanlin Song	Chairman : Vadim Kessler
14:10	<p>Guojun Liu Fluorine-Free Clear and Durable NANOGLIDE Coatings for Anti-Smudge and Anti-Graffiti Applications NANOTECH-KN50</p>	<p>Adam Mechler Towards self-assembling electronics: an oligopeptide-based conductive material NANOTECH-KN56</p>
14:35	<p>Ekata Ghate Role of ridge lamellar structures in the hydrophobic /super hydrophobic behavior of butterfly wing scales: Blue print for fabrication of biomaterials having hydrophobic nature NANOTECH-OR148</p>	<p>Iryna Polishchuk Bio-Inspired Band-Gap Modification of Semiconductor Cu₂O by the Incorporation of Amino Acids NANOTECH-OR161</p>
14:50	<p>Belen Sanz Mimicking of tree frog toe pads NANOTECH-OR149</p>	<p>Eli Espinoza Inducing Charge Transfer in Molecular Electrets NANOTECH-OR162</p>
15:05	<p>Julia Purtov The wetting behavior of polymeric hydrophilic nano-structures inspired by the moth's eye and fabricated via direct laser writing NANOTECH-OR150</p>	<p>Seunghyun Sim Engineered Protein Cargo for Controlling 1D to 3D Assembly NANOTECH-OR163</p>
15:20		<p>Pietro Cataldi Foldable electronics, EMI shielding and electromyography with cellulose-biopolymers fiber networks modified by graphene nanoplatelets NANOTECH-OR164</p>
15:35		
15:50	Coffee break "Salon Royal" room	

	"Versailles" Room	"Masséna" Room
16:10	<p>Armando Cordova Eco-friendly design for scalable direct fabrication of nanocellulose NANOTECH-KN51</p>	<p>Vladimir V. Tsukruk Designing Flexible Laminated Bionanocomposite and Nanoshells NANOTECH-KN57</p>
16:35	<p>Remo Merijs Meri Modification of carbon nanofillers, development and characterization of thermoplastic polyolefine elastomer nanocomposites NANOTECH-OR151</p>	<p>Christian Goldhahn Inorganic-Functionalized Wood Materials: Going Beyond the Intrinsic Properties NANOTECH-OR165</p>
16:50	<p>Francisco Fernandes Freeze casting microorganisms: from cryopreservation to "living" biomaterials NANOTECH-OR153</p>	<p>Graciela Morales Electro-hydrodynamic Techniques for Tailoring Antibacterial and UV-Shielding Properties of Mats Based on Biodegradable Polyesters and ZnO Nanoparticles NANOTECH-OR166</p>
17:05	<p>Olivier Felix Bio-Inspired Multiproperty Materials: Strong and Transparent Cellulose Nano-Reinforced LbL-Composites NANOTECH-OR154</p>	<p>Ran Suckeveriene Hybrid PANI/CNT Nano-composites Prepared by an Inverse Emulsion Polymerization Technique NANOTECH-OR167</p>
17:20		<p>Irina Marinho Factori Thermal behavior of electrospun poly(vinyl alcohol)/titanate nanotubes nanocomposites NANOTECH-OR168</p>
17:35		

SMARTTECH SESSION

"Nation" Room	
Chairman : Catarina Esteves	
08:30	<p>Junqi Sun - Withdrawn Self-healing/healable polymeric films SMARTTECH-KN58</p>
08:55	<p>Anke Nellesen Self-Healing Elastomers - Healing Functionalization by polymer analogous Side group Modification SMARTTECH-OR169</p>
09:10	<p>Ecaterina Stela Dragan Novel multi-stimuli-responsive IPN cryogels based on poly(N,N-dimethylaminoethyl methacrylate) for sustained release of drugs SMARTTECH-KN170</p>
09:25	<p>Yayang Tian BODIPY-based Fluorescent LbL Self-assembled Films for Bacterial Detection SMARTTECH-KN171</p>
09:40	<p>Maria Genovese Photoactivated acidochromic polymeric composites for on demand acid gas sensing SMARTTECH-OR172</p>
09:55	
10:05	<p>Coffee break "Salon Royal" room</p>
10:25	<p>Paul Braun Exploiting Elastic and Chemical Instabilities to Drive Rapid Chemical and Physical Transport SMARTTECH-KN59</p>
10:50	<p>Agata Michalska Conjugated fluorescent polymers nanoparticles - novel ion-selective optodes SMARTTECH-OR173</p>
11:05	<p>Ximin He - Withdrawn Bioinspired Dynamic Materials for Self-regulating, Separation and Sensing SMARTTECH-OR174</p>
11:20	<p>Tamilselvan Mohan 2D Polysaccharide Surfaces for Targeted Biomolecules Interactions SMARTTECH-OR175</p>
11:35	<p>Piotr Piotrowski Ag@SiO₂ nanocomposites in SERS-based cation detection SMARTTECH-OR176</p>

11:50

WORKSHOPS PROGRAM

WORKSHOP - How to implement biomimetics in R&D strategies ?

Date: Tuesday, October 18

Room : « Salon Masséna » room

Scheduled time : 14:30

Organizers: CEEBIOS, IAR, researchers, industries and other innovation management stakeholders



Biomimetics are increasingly recognized as a leverage for innovation. However several hurdles regarding its integration in R&D strategies remain to be overcome: biology knowledge transfer, go beyond isolated initiatives, experiment and develop systematic tools, promote the approach to entrepreneurs, industries, collectivities, educators and political actors. This workshop aims to give a picture of stakeholders landscape regarding bio-inspiration integration in R&D&I strategies.

WORKSHOP - Algues: "Opportunités pour le marché des polymères et matériaux biosourcés"

(Only in French)

Date: Tuesday, October 18

Room : « Versailles » room

Scheduled time : 14:30

Organizer: TRIMATEC (cluster)



Bien que l'alimentation humaine soit le principal débouché des algues entières (macro et microalgues) à travers le monde, les polymères algaux trouvent également des applications dans la chimie, certaines, bien connues, de gélifiants (alginates, carraghénanes, agar), d'autres plus récentes sur des applications de niche (actifs hydratants pour la cosmétique par exemple).

Mais de nouvelles opportunités dans le domaine des intermédiaires chimiques biosourcés et des biomatériaux apparaissent, dans une logique d'augmentation des volumes et de baisse des coûts de production pour atteindre, à terme, le marché des biocarburants.

En effet, au regard des végétaux terrestres de plus en plus utilisés comme source de molécules chimiques en alternative aux produits pétrosourcés, les algues possèdent des atouts qui devraient leur permettre de s'insérer dans ces nouveaux schémas de bioraffinerie du végétal.

Après une présentation générale des opportunités offertes par les algues sur le marché des polymères et matériaux biosourcés, ce workshop détaillera quelques exemples d'applications sur

lesquelles certains acteurs privés et publics se sont d'ores et déjà positionnés au travers de projets de R&D collaboratifs.

WORKSHOP - Les catalyseurs bioinspirés pour l'énergie (H₂, CO₂, biocarburants,...): Rencontre interactive Etat de l'Art / Besoins des industriels

Withdrawn

(Only in French)

Date: Wednesday, October 19

Room : « Nation » room

Scheduled time : 14:10

Organizer: NOVACHIM



Nous vous proposons un atelier « d'échanges », animé par des professionnels, entre laboratoires de recherche et industries D'un côté les chercheurs pourront évoquer les briques technologiques sur lesquelles ils travaillent et de l'autre les industriels leurs besoins. L'objectif ici serait, pour les chercheurs, de pouvoir partir des préoccupations des industriels pour appliquer leurs savoirs et, pour les industriels, d'avoir une vision prospective sur les produits/services de demain.

La thématique « Energie » est un enjeu d'importance pour notre industrie et un sujet attractif pour la recherche. Production, stockage, distribution de l'hydrogène ; consommation, réduction du gaz carbonique ; développement des biocarburants sont aujourd'hui stratégiques.

Venez participer et construire les projets innovants de demain.