

Preliminary Program		
Final Conference		
"Eco-sustainable Food Packaging Based on Polymer Nanomaterials"		
COST ACTION FA0904		
26-28 February 2014, Sala Marconi - CNR - Piazzale A. Moro, 7 - ROMA		
Wednesday 26		
8:30	Registration	
9:00	<p style="text-align: center;">Welcome</p> <p>Luigi Nicolais* <i>CNR President</i></p> <p>Luigi Ambrosio <i>Head of CNR Department: Chemical Science & Materials Technology</i></p> <p>Francesco Loreto <i>Head of CNR Department: Biology, Agriculture & Food Science</i></p> <p>Cosimo Carfagna <i>Director of ICTP/CNR</i></p>	Chair: Sossio Cimmino
9:45- 10:10	<p style="text-align: center;">Opening</p> <p>Ioanna Stavridou <i>COST Science Officer Food and Agriculture Domain, Belgium</i> "European Cooperation in Science and Technology- COST"</p> <p>Clara Silvestre <i>COST Action FA0904 Chair</i> "COST ACTION FA0904 "Eco-Sustainable Food Packaging Based on Polymer Nanomaterials": It is Time for the Final Appraisal"</p>	
10:10-10:40	Coffee break	
10:40	<p>Session 1 WG1: Development of New Safe PNFP</p> <p>Introduction Key Lecture</p> <p>Vähä-Nissi Mika, <i>VTT Technical Research Centre of Finland</i> "Atomic Layer Deposited Thin Films For Packaging"</p> <p>Josè Kenny, <i>University of Perugia, Italy</i> "Advances in PLA Matrix Nanocomposites for Food Packaging"</p> <p>Mikko Tuominen, <i>SP Technical Research Institute of Sweden</i> "Multifunctional Nanoparticle Coating Using (LFS)-Technique"</p> <p>Hynek Biderman, <i>Charles University in Prague, Czech Republic</i> "Low Pressure Plasma Coatings for Food Packaging"</p> <p>Ana Rita Ferreira, <i>Universidade Nova de Lisboa, Portugal</i> "Characterization of Fucopol Films for Food Packaging"</p>	Chair : Mika Vähä-Nissi
13:00-14:30	Lunch	
14:30	<p>Session 2 WG2: Development of New Processing Technologies</p> <p>Introduction Key Lecture</p> <p>José María Lagaron, <i>Spanish Council for Scientific Research (CSIC), Spain</i> "Nanocellulose-Based Renewable Packaging Materials"</p> <p>Mustapha Kaci, <i>University Abderrahmane Mira, Algeria</i> "A Study of the Combined Effects of PHBV-g-AM"</p>	Chair : Jose Maria Lagaron

	<p>Compatibilizer and Cloisite 30B ON PHBV/PLA Blends”</p> <p>Pilic Branka <i>University of Novi Sad, Serbia</i> “The Influence of Physical Modification on the Properties of PLA Films as Green “Packaging Materials””</p> <p>Miguel Cerqueira, <i>University of Minho, Portugal</i> “Reinforcement of Polysaccharide-Based Films: Evaluation of Physic-Chemical Properties”</p> <p>Pamfil Daniela, “<i>Petru Poni</i>” <i>Institute of Macromolecular Chemistry, Romania</i> “Thermal Characterization of Hydrogels Based on Anhydride Modified Collagen and 2- Hydroxyethyl Methacrylate”</p>	
16:40-17:00	Coffee break and Networking	
17:00-18:30	<p>Panel 1: Antimicrobial Packaging</p> <p>Key lecture</p> <p>Louise Deschênes, <i>Agriculture & Agri-Food, Canada</i> “Challenges in Investigating Nanoparticles as Antimicrobial in Food Packaging. ZnO Case Study.”</p> <p>Marc Verelst, <i>Université Paul Sabatier Toulouse III and CNRS, France</i> “Preparation and Characterization of Several Polymer/Zinc Oxide Microcomposites with Antibacterial Activity”</p> <p>Ramune Rutkaite, <i>Kaunas University of Technology, Lithuania</i> “Production Technologies of Antimicrobial Silver-Containing Packaging Materials”</p> <p>Bogdanel Silvestru Munteanu, <i>AL.I. Cuza University, Romania</i> “Antibacterial Membranes Based on Polyurethane and Biological Polymers”</p> <p>Paola Del Serrone <i>Consiglio per la Ricerca e la Sperimentazione in Agricoltura CRA, Italy</i> “Evaluation of a Mono-Component and a Multi-Component Herbal Extracts as Candidate for Antimicrobial Packaging of Fresh Retail Meat.”</p> <p>Panel Discussion</p>	<p>Moderator: Mustapha Kaci</p>
Thursday 27		
9:00	<p>Session 3 WG 3: Development of New Strategies to Identify any Critical Interaction of PNFP with Food</p> <p>Introduction Key Lecture</p> <p>Selcuk Yildirim, <i>Zurich University of Applied Sciences, Switzerland</i> “Critical Interactions between Palladium Based Oxygen Scavenger and the Food”</p>	<p>Chair: Selcuk Yildirim</p>

	<p>Stephanie Gaengler, <i>Cyprus University of Technology, Cyprus</i> “Influential Factors of Bisphenol A Leaching from Polycarbonate Containers into Drinking Water: a Simulation Study”</p> <p>Maurizio Avella, <i>Institute of Chemistry and Technology of the Polymers, CNR, Italy</i> “Plasticization of PLA with Esterified Oligo-PLA”</p> <p>Federica Aureli, <i>Istituto Superiore di Sanità, Italia</i> “Single Particle-ICP-MS and Asymmetric Flow Field Flow Fractionation-UV-MALS-ICP-MS for the Analytical Determination of Inorganic Nanoparticles Released from Polymer Nanomaterials for Food Packaging”</p> <p>Marit Kvalvåg Pettersen, <i>NOFIMA, Norway</i> “Evaluation of Suitability of Some Biomaterials for fresh food. Case Study: Biomaterials for Fresh Products”</p> <p>Christos Pandis, <i>National Technical University of Athens, Greece</i> “Water Sorption and Dielectric Study of Chitosan Films with Various Degrees of Deacetylation”</p>	
11:40-12:00	Coffee break and networking	
12:00	<p>Panel 2. Foresights: Filling the Gap Between Science and Technology</p> <p>Key Lecture Geoffrey Mitchell, <i>Institute Polytechnic Leiria, Portugal</i> “A Comparison of Nanocomposites and Nanostructured Polymers for Safe and Effective Food Packaging”</p> <p>Christoph Schick, <i>University of Rostock, Germany</i> “Crystal Nucleation in Poly(epsilon-caprolactone) - Multiwalled Carbon Nanotube Composites”</p> <p>Gaetano Guerra, <i>Nano Active Film S.r.l., Spin-off Company of the University of Salerno, Italy</i> “Food Packaging Based on Nanoporous-Crystalline Polymers”</p> <p>Francesco Marandino, <i>Penelope Spa, Italy</i> “Intelligent Packing to Support Supply Chain Food Traceability”</p> <p>Remo Merijs Meri, <i>Riga Technical University, Latvia</i> “Characterization of Polyethylene Terephthalate Based Hybrid Nanocomposites”</p> <p>Panel Discussion</p>	Moderator Eric Kny
13:30-15:00	Lunch	
15:00	Session 4 - WG4: Ethics, Environment , Standardization, Science-Society Dialogue, International	Chair Geoffrey Hunt

	<p>Cooperation</p> <p>Introduction Key Lecture</p> <p>Geoffrey Hunt, <i>St Mary's University College, United Kingdom</i> “The Convergence of New Food Technologies: Social & Ethical Issues”</p> <p>Eddo Hoekstra, <i>Joint Research Centre of the European Commission, Italy</i> “Eco-sustainable Plastic Food Contact Materials Using Nanomaterials from Development to Final Product”</p> <p>Marlena Kwiatkowska, <i>Wroclaw University of Technology, Poland</i> “Biodegradation of PLA and PLA Composites”</p> <p>Tiziana Maria P. Cattaneo <i>Consiglio per la Ricerca e la sperimentazione in Agricoltura, Italy</i> “New Features in Food Packaging Sector: Italian Research Updating”</p> <p>Emanuele Fiore, <i>Embassy of Italy, Canada</i> “International Cooperation in Science and Technology: the Example of Italy and Canada”</p>	
16:30-17:00	Coffee break and networking	
17:00-18:30	<p>Panel 3: Complimentary Platforms for Interactions</p> <p>Key Lecture</p> <p>Agnes Safrany, <i>International Atomic Energy Agency UN, Austria</i> “Preparation of New Food Packaging Materials by Radiation-Initiated Reactions and IAEA Support to Member States Institutions”</p> <p>Erich Kny, <i>Kemik, Austria</i> “COST Action MP1206 on Electrospinning Nanofibers”</p> <p>Robert van Otterdijk, <i>Food & Agriculture Organization- UN, Italy</i> “FAO Activities in the Field of Food Waste and Loss”</p> <p>Cecilia Bartolucci, <i>National Research Council (CNR), Italy</i> “A Foresight Perspective to the Role of Packaging in the Sustainability of Food and Environment”</p> <p>Andrea Porcari, <i>Center for Nanotechnologies and KETs, Italian Association for Industrial Research (AIRI/Nanotec IT), Italy</i> “Nanotechnology in Italy and the Role of Nanotec IT”</p> <p>Panel Discussion</p>	Moderator: Clara Silvestre
20:00	Dinner	
Friday 28		
9:00 - 10:30	MC Meeting	

10:30- 11:00	Coffee break	
11: 00: 12: 30	Action Evaluation	
9: 00- 12:30	<p>Session: Poster Presentation</p> <p> Lorena Affatato, <i>Institute of Chemistry and Technology of the Polymers, CNR, Italy</i> “Smart City”</p> <p>Aida Benhamida, <i>University of Bejaia, Algeria</i> “Morphology and Mechanical Properties Polyamide 11/OMMT Nanocomposites Prepared by Melt Mixing”</p> <p>Isabel Bourbon <i>Universidade do Minho, Campus de Gualtar, Portugal</i> “Incorporation of Nanohydrogels in Polysaccharide-Based Films: Effect on Physic-Chemical Properties”.</p> <p>Andrey Shukurov, <i>Charles University in Prague, Czech Republic</i> “Effect of DBD Plasma Treatment on Properties of Poly(ethylene terephthalate) Foils”</p> <p>Doina Constantinescu, <i>SC ICEFS COM SRL, Romania</i> “Project Eureka- Compounding with Alimentary Additives For Layers with Antimicrobial and Antioxidant Properties – Pilot Phases”</p> <p>Elena Fortunati, <i>University of Perugia, Italy</i> “Combined Effect of Cellulose Nanocrystals Extracted from Phormium Tenax Leaves and Limonene on the Properties of PLA Films”</p> <p>Jan Hanuš, <i>Charles University in Prague, Czech Republic</i>, “Fabrication and Characterization of a-C:H/Cu Nanocomposites Prepared by PECVD Combined with Gas”</p> <p>Evgeni Ivanov, <i>Bulgarian Academy of Sciences, Bulgaria</i> “Polypropylene Composites Based ON MWCNT and Organoclay”</p> <p>Tatjana Ivanova, <i>Riga Technical University, Latvia</i> “Structure and Properties of Zinc Oxide Containing Polymer Nanocomposites”</p> <p>Claudio Larosa, <i>University of Genoa, Italy</i> “Ceria oxide nanoparticles in Lexan polycarbonate: new films nanocomposite prospective for food container”</p> <p>Artur Martins, <i>University of Minho, Portugal</i> “Diffusion of Different Molecular Weight Proteins through Poly ε-caprolactone Films With Encapsulated Trypsin”</p> <p>Ramesh Babu Padamati, <i>Trinity College Dublin, Ireland</i> “Effect of Layered Nanomaterials and Nanofibers on Mechanical</p>	<p>Chairs: Cornelia Vasile, Donatella Duraccio</p>

and Barrier Properties of Biobased Polymer Composites”

Elena Paslaru, *“Petru Poni” Institute of Macromolecular Chemistry, Romania*

“Lactoferrin –Coated Poly(Lactic Acid)”

Elisa Passaglia, *Istituto di Chimica dei Composti OrganoMetallici-UOS-CNR, Italia*

“The Use of Plasticizers as Coupling Agents in Preparation of PLA-based Nanocomposites”

Marilena Pezzuto, *Institute of Chemistry and Technology of the Polymers, CNR, Italy*

“Study of the Effect of Ionizing Radiation on the Properties of Polypropylene Nanocomposites for Food Packaging Applications”

Ana Cristina Pinheiro, *University of Minho, Portugal.*

“K-Carrageenan/Chitosan Nanolayered Coating as a Vehicle for Incorporation of Bioactive Compounds”

Frederika Popovska-Pavlovska, *Integrated Business Institute, R.Macedonia*

“A Contribution to Rheological And Relaxation Properties Of Polymer Nanocomposite Materials”

Tanja Radusin, *University of Novi Sad, Serbia*

“Development of New PLA/Silica Nano Composites with Potential Use for Packaging of Fresh Meat”

Marcella Salvatore, *Institute of Chemistry and Technology of the Polymers, CNR, Italy*

“Effect of Ionizing Radiation on the Nanocomposites Based on Polylactic Acid/Montmorillonite for Food Packaging Applications”

Amhed Swilem *Ain Shams University, Cairo, Egypt*

“Development and Radiation Processing of Polycaprolactone/Chitosan (Pcl/Cs) Blend for Active Food Packaging”

Cornelia Vasile, *P.Poni” Institute of Macromolecular Chemistry, Romania*

“Study of Thermal Properties and Heat-Induced Denaturation of Hybrid Hydrogels Based Collagen”

Cornelia Vasile, *P.Poni” Institute of Macromolecular Chemistry, Romania*

“PLA Nanocomposites as Potential Antimicrobial Materials”

Selcuk Yildirim, *Zurich University of Applied Sciences, Switzerland*

“Electrospun Nanofibers as A Food Contact Layer for Iron Based Oxygen Scavenging Films”

12:30 - 13:00	Concluding Remarks and Closure Clara SILVESTRE and Rumiana KOTSILKOVA	
	Lunch and farewell	

* to be confirmed