

Thursday, March 3rd Napolynet International Workshop
“ Characterization of Safe Nanostructured Polymeric Materials”

8:30 Registration

9:00-9:30 Welcome

Clara Silvestre, FP7 Napolynet Coordinator & COST FA0904 Chair

Massimo D'Apuzzo, President of Polo delle Scienze e delle Tecnologie, Università di Napoli
“Federico II”

Claudio De Rosa, Director of Dipartimento di Chimica “P. Corradini”, Università di Napoli
“Federico II”

Cosimo Carfagna, Director of ICTP-CNR.

Sesto Viticoli, Director of DPM-CNR

Maria Uccellatore, Ministero dell'Istruzione, dell'Università e della Ricerca

Pilar Aguar, FP7 Officer, EU

Keynote Lectures

Chair: Dr Sossio Cimmino

9:30-10:00 **Prof Massimo Lazzari**, University of Santiago de Compostela, Spain.

“Functional polymers for the synthesis of inorganic nanoparticles”

10:00-10:30 **Prof Josè M. Kenny**, Instituto de Ciencia y Tecnologia de Polimeros- CSIC, Spain.

“Modelling and characterization of the electrical properties of polymer nanocomposites”

10:30-11:00 **Prof Geoffrey Mitchell**, University of Reading, UK.

“Characterization of Safe Nanostructured Polymeric Materials”

11:00 -11:30 Coffee Break

Characterization of Polymer Nanostructure

Session 1

Chair: Prof Rumiana Kotsilkova

11:30 -11:50 **Prof Christoph Schick**, University of Rostock, Germany.

“Nucleation and Crystallization in Nanostructured Polymers at Processing Relevant Cooling Rates”

11:50 –12:10 **Prof Polycarpos Pissis**, National Technical University of Athens, Greece.

“Glass transition and polymer dynamics in polymer nanocomposites”

12:10- 12:30 **Dr Paul Sotta**, CNRS / Rhodia Recherche et Technologie, Saint-Fons Cedex, France.

“Viscoelastic properties of polymer networks filled with nanoparticles”

12:30 – 12:50 **Prof Hynek Biederman**, Charles University in Prague, Czech Republic.

“Barrier coatings and nanocomposite films for food packaging applications”

13:00-14:30 Lunch, Networking and Poster Section

Session 2

Chair: Prof Finizia Auriemma

14:30-14:50 **Prof Rumiana Kotsilkova**, Bulgarian Academy of Sciences, Sofia, Bulgaria.

“Rheology of nanodispersions”

14:50-15:10 **Prof Riccardo Talevi**, Università di Napoli “Federico II”, Naples, Italy.

“Effects and internalization of nanoparticles in several biological systems”

15:10-15:30 **Dr Andrea Sorrentino**, University of Salerno, Italy.

“Ball Milling Processing of Nanobiocomposite”

15:30-15:50 **Prof Francesco Branda**, Università di Napoli, Naples, Italy.

“Effectiveness of APTS molecule as Sol-Gel precursor of Hybrid and Nanocomposite Materials”

15:50-16:10 Coffee Break

Session 3

Chair: Prof Erich Kny

16:10-16:30 **Dr Jose M. Lagaron**, Spanish Council for Scientific Research (CSIC), Paterna, Spain.

“Water Resistance Carrageenan by Nanotechnology: Towards High Performance Sustainable Polymers”

16:30-16:50 **Dr Richard Olsson**, Royal Institute of Technology, Stockholm, Sweden.

“Technology and Applications of Cellulose Nanocrystals”

16:50 – 17:10 **Dr Norbert Siegel**, DIN, Berlin, Germany.

“Standards and Standardization for nanotechnologies and related fields”

17:15 – 20:15 NaPolyNet General Assembly Meeting

20:30 Dinner

Friday, March 4

COST Workshop WG2 Development of new processing technologies including modelling and simulation

Session 1

Chair: Dr. Jose-Maria Lagaron

8:45-9:00 Presentation of WG2

9:00-9:20 **Dr Erich Kny**, Austrian Institute of Technology, Seibersdorf, Austria.

“Overview of Polymer Nanocomposites for Food Packaging- Technology, Properties, Applications, Markets and Assessment Of Toxicological Aspects”

9:20-9:40 **Prof Loredana Incarnato**, University of Salerno, Italy.

“Polymer Nanocomposite Films for Food Packging applications: preparation, structure and properties”

9:40-10:00 **Prof David Plackett**, Technical University of Denmark,

“Bioplastic nanocomposite films for thermoformed meat packaging – development and characterization”

10:00-10:20 **Prof Antonio Vicente**, University of Minho, Braga, Portugal.

“Can natural hydrocolloids be used for nanotechnological applications in foods?”

10:20-10:50 **Coffee Break**

Session 2

Chair: Dr. David Plackett

10:50-11:10 **Dr Elisabetta Fanesi**, Novamont SpA, Novara, Italy.

“Mater-Bi and compostable packaging: technologies, properties and environmental profile”

11:10-11:30 **Dr Giovanni De Martino**, Jolly Plastic, Larciano (PT), Italy and **Dr Julian**

Schmeling FKUR kunststoff GmbH, Willich, Germany.

“Biodegradable and Compostable Multi Layer Structure for Frozen Packaging”

11:30-11:50 **Prof Marek Kozlowski**, Wroclaw University of Technology, Wroclaw, Poland.

“Recycling of polymers and polymer nanocomposites”

11:50-12:10 **Prof Geoffrey Hunt**, Centre for Bioethics and Emerging Technologies SMUC, London, UK.

“What is characterisation, and what are its limitations?”

Session 3 Presentation by STSM grantees

Chair: Dr Cornelia Vasile

12:10–12:20 **Dr Catalina N. Cheaburu**, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania.

STSM topic: “*Study of some nanostructured materials*”.

12:20–12:30 **Dr Juris Bitenieks**, Riga Technical University, Latvia.

STSM topic: “*Rheological, elastic and dielectric properties of polyethylene/carbon nanotube nanocomposites*”.

12:30–12:40 **Dr Marilena Pezzuto**, Università di Napoli “Federico II”, Italy.

STSM topic: “*Structure-property relationship of iPP based nanocomposites*”.

12:40–12:50 **Dr Anna Cimmino**, Istituto Nazionale di Fisica Nucleare, Section of Naples, Italy.

STSM Topic: “*Setting up of novel nan- sensor to measure relative humidity levels*”.

12:50–13:10 **Dr Irena Borovanska**, Institute of Mechanics, BAS, Sofia, Bulgaria.

STSM Topic: “*Structural and mechanical characterization of polymer nanocomposites and recycled polymers. Training on AFM and Nanoindentation testing*”

13:10 Closure – Prof Finizia Auriemma & Dr Sossio Cimmino

13:15–15:00 Lunch, Networking and Poster Session

15:00

COST FA0904 MC Meeting	Round Networking Table for Young Scientists: Making the Science of future in PNFP Chair: Dr. Soccorso Gaeta and Dr. Donatella Duraccio
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20:30 Dinner

