

# Sustainable Nanotechnology Conference 2015



**Monday, March 9, 2015 - Wednesday, March 11, 2015**

**NH Laguna Palace Hotel**

## **Scientific Program**

## **Welcome & Introduction of the conference**

Antonio Marcomini, Barbara Karn, Socorro Vázquez-Campos, Danail Hristozov

## **Plenary Lecture 1: Nanotechnology path to Sustainable Society**

Speaker: Mihail Roco

## **Discussion Panel 1: Environmental applications: Water**

Chair: Paul Westerhoff

Panelists: Tony Byrne (photolysis), Jean-Yves Bottero (ZVI), Gilbert Rios (bio-inspired membranes)

## **Parallel session 1A: Occupational & Consumer Exposure**

Chairs: Keld Astrup Jensen

Presenters: Aiga Mackevica, Nicole Neubauer, Dhimiter Bello, Wouter Fransman, Antti J. Koivisto

## **Parallel session 1B: Ecotoxicology, effects on ecosystem services & ecological risks**

Chair: Teresa F. Fernandes. Presenters: Azucena Bermejo-Nogales, Maria Luisa Fernandez-Cruz, Nubia Zuverza-Mena, Jorge L. Gardea-Torresdey, Teresa F. Fernandes, Ashok Vaseashta

## **Parallel session 1C: Life Cycle Thinking & LCA**

Chair: Michael Steinfeldt. Presenters: David G. Rickerby, Rachel Horta Arduin, Beatrice Salieri, Socorro Vazquez-Campos, Peter Vikesland, Fabiano Piccinno

## **Plenary Lecture 2: Benchmark nanomaterials and case studies to challenge the decision criteria of a 'multiple perspective grouping framework**

Speaker: Wendel Wohlleben

## **Discussion Panel 2: Sustainable Nanotechnology**

Chair: Barbara Karn. Panelists: Danail Hristozov, Socorro Vázquez-Campos, Omowunmi Sadik

## **Parallel session 2A: Toxicology and human health risks**

Chair: Danail Hristozov. Presenters: Chengfang Pang, Atta Ur Rehman, Nelson Marmiroli, Elisa Moschini, Deepika Soni, Federica Fernandez

## **Parallel session 2B: Environmental exposure, release & fate**

Chairs: Bernd Nowack, Greg Lowry. Presenters: Janeck J. Scott-Fordsmand, Nikolaus A. Bornhoff, Haitham Elnakar, Tian Yin Sun, Antonia Praetorius

## **Parallel session 2C: Industrial decision support tools**

Chairs: Elena Semenzin, Igor Linkov. Presenters: Vrishali Subramanian, Claudia Som, Xue Z. Wang, Henning Wigger, Karena Hester

## **Plenary Lecture 3: Regulatory and Policy Initiatives in the US and EU**

Speaker: Lynn L. Bergeson

## **Discussion Panel 3: Testing strategies to evaluate nanomaterials safety**

Chair: Vicki Stone

## **Parallel session 3A: Safer by design products, production and processes**

Chair: Carlos Fito. Presenters: Tewodros (Teddy) Asefa, Sergey Gusarov, Anthony Carroll, Simona Ortelli, Valentina Marassi

## **Parallel session 3B: Ecotoxicology, effects on ecosystem services & ecological risks**

Chairs: Janeck Scott-Fordsmand, Elijah Petersen. Presenters: Yehuda Benayahu, María Díez, Olga Zaytseva, Ilaria Corsi, Mónica J.B. Amorim

## **Parallel session 3C: Educational & curriculum in nanotechnology**

Chairs: Victor Puentes, Peter Vikesland. Presenters: Deb Newberry, Peter Vikesland, Mehlika Ayla Kiser, Stephen Fonash, Albert Duschl, Ineke Malsch

## **Plenary Lecture 4: The quest for generating robust regulatory relevant data**

Speaker: Tom van Teunenbroek

## **Parallel session 4A: Recycling & Waste Management**

Chair: Steffen Foss Hansen. Presenters: Laura Heggelund, Alejandro Caballero Guzman, Steffen Foss Hansen, Fadri Gottschalk.

## **Parallel session 4B: Toxicology and human health risks**

Chair: Flemming Cassee. Presenters: Ceyda Oksel, Maria João Silva, Elijah Petersen, Seda Keleştemur, Susan Wijnhoven

## **Parallel session 4C: Environmental Release, Fate and Exposure**

Chair: Socorro Vasquez Campos. Presenters: Danielle Slomberg, Li-Piin Sung, Melanie Kah, Greg Lowry, Georgios A. Sotiriou

## **Reception and Posters**

## **Plenary Lecture 5**

Speaker: Mark Wiesner

## **Discussion Panel 4: Role of Green Nanotechnology in Sustainable Nanotechnology**

Chair: Terry Wilkins

## **Parallel session 5A: Safer by design products, production and processes**

Chair: Anna Luisa Costa. Presenters: Pelagia-Irene (Perena) Gouma, Idris Yazgan, Karl Hoehener, Barbara Karn, Anna Costa

## **Parallel session 5B: Tracking NM in complex matrices**

Chairs: Ken Dawson, Omowunmi Sadik. Presenters: Frank von der Kammer, Vladimir Mirsky, Omowunmi Sadik, Anna A. Antsiferova, Samantha M. K. Donnellan, Michael Stintz

## **Parallel session 5C: Life cycle thinking & LCA**

Chair: Socorro Vázquez-Campos. Presenters: Michael Steinfeldt, Alejandro Vilchez, Indrani Mahapatra, Vyacheslav A. Demin

## **Plenary Lecture 6: Entropic control, Sustainable Nanotechnology at the molecular level**

Speaker: John Warner

## **Discussion Panel 5: Agriculture & Food**

Chairs: Jason White, Melanie Kah. Presenters: Jason C. White, Stephen D. Ebbs

## **Parallel Session 6A: Toxicology and human health risks**

Chair: Enrico Bergamaschi. Presenters: Olga D. Hendrickson, Enrico Bergamaschi, Massimiliano Bianchi, Joan Cabellos, Manfredi Allegri

## **Parallel session 6B: Occupational and consumer exposure**

Chairs: Derk Brouwer, Phil Demokritou. Presenters: Antti J. Koivisto, Keld Astrup Jensen, Dhimiter Bello, Derk Brouwer

## **Parallel session 6C: Environmental exposure, release & fate**

Chair: Geert Cornelis. Presenters: Frank von der Kammer, Lorette Scifo, Geert Cornelis, Gilbert M. Rios, Nathan Bossa