



## 4th International Conference of Young Scientists & Annual General Meeting of the Global Young Academy

---

Natural Resources in a Finite World | 21-23 May 2014 | Santiago de Chile, Chile

### Science Engagement Sessions

## Day 2, Thu., 22 May 2014, Plenary Panel Discussion (11.00–11.30 am)

### **[Panel A] (Conference theme: Natural resources in a finite world)**

**moderator: TBA**

(1) Antonio Andreoni (Cambridge, UK):

On Manufacturing Development und Resources Constraints

(2) Olanike Adeyemo (Idaban, Nigeria):

Beyond Resource Sharing: Sustainable Management of Transboundary Pollution and Diseases

(3) James Tickner (Canberra, Australia):

More from Less: New Technologies to Improve Mining and Minerals Processing Efficiency



## **Day 2, Thu., 22 May 2014, Parallel Sessions (3:40–4:40 pm)**

### **[Panel B] (Science and Engineering) in Room 3, TBA**

**chair: TBA**

(1) Humberto Palza:

Tailoring the properties of polymers by nanotechnology

(2) Felipe Barra de la Guarda:

Non-equilibrium quantum systems

(3) Stephen A. Miller:

Sustainable Polymers: How to Compete with Traditional Plastics

(4) Amal Amin Ibrahim Nada:

Manufacturing of new Nanostructured polymers/nanocomposites for new industrial applications of nanotechnology

(5) Thanh Nguyen TK:

Nanoparticles as Diagnostic and Therapeutic agents

### **[Panel C] (Politics, Engagement, Humanities) in Room 1, Aula Magna**

**chair: TBA**

(1) Francesco Stellaci:

10 billion people to feed 35 year from now: how?

(2) Milica Pešic:

Development of science in the service of humanity

(3) Andrew Haddon Kemp:

War on Science and Active Hope

(4) Jan-Christoph Heilinger:

Cosmopolitanism and responsibility

(5) Kai Chan:

Time for a New Brand of Environmental Science Engagement



**[Panel D] (Biomedical) in Room 2 , Sala 339**

**chair: TBA**

(1) Vincente A. Torres:

Role of Rab5 in Focal Adhesion Dynamics and Tumor Cell Migration

(2) Francisca Bronfman and Claudia Escudero:

Death signaling endosome in neuronal axons containing the common neurotrophin receptor. Implication for neurodegenerative diseases

(3) Daniel Escaff:

A Self-Organization Mechanism to Explain the Formation of Strange Barren Structures in Vegetation Dynamics

(4) Sherif Faruk El-Khamisy:

Chromosomal Strand Break Repair and Human Disease

(5) Yusuf Baran:

Drug Resistance in Cancer and its Reversal



## **Day 3, Fri., 23 May 2014, Parallel Sessions 5:00–6:00 pm**

### **[Panel E] (Medicine and biodiversity) in room TBA**

**chair: TBA**

(1) Muhammad Manjurul Karim:

Probiotic Technology for Sustainable Disease Management of Prawn Aquaculture

(2) Patrick Kobina Arthur:

Towards The Eradication of Drug Resistant Infections By The Exploitation The Fungal Biodiversity in West Africa

(3) Christian Agyare:

Medicinal plants and natural products as sources of antiparasitic agents

(4) Shamsun Nahar Khan:

Aspects of the New Class of Alpha-Glucosidase Inhibitors in the Treatment of the Diabetes

(5) Julia Baum:

Marine biodiversity in a changing world

### **[Panel F] (Sustainability) in room TBA**

chair: Jan-Christoph Heilinger

(1) Abdeslam Badre:

Ethics training in science and research

(2) Abdullah Shams Bin Tariq:

Academia and academic publishing

(3) Javier Garcia-Martinez:

The Global Experiment of the International Year of Chemistry: Creating On-line Communities for Learner-driven Education

(4) Martin Dominik:

Natural Resources in a Finite (?) Universe

(5) Numpon Mahayotsanum:

Integration and Implementation of Design, Technology and Marketing for Sustainable Development in Thailand



**[Panel G] (Science and engineering) in room TBA**

**chair: TBA**

(1) Javier M. Moguerza:

An Integrated Framework for Stakeholders Dialog within Energy Systems

(2) Ramesh T. Subramaniam:

Solid Copolymer Electrolyte Replacement in Dye-Sensitized Solar Cells

(3) Kok-Keong Chong:

Non-Imaging Dish Concentrator for the Application in Concentrator Photovoltaic System

(4) Federico Rosei:

What type of Energy for the future of humanity?