

**ACCADEMIA NAZIONALE DEI LINCEI
THE ROYAL SOCIETY OF CANADA**

WORKSHOP SUL TEMA

SCIENCE FOR AN ENVIRONMENTALLY SUSTAINABLE DEVELOPMENT

7-8 ottobre 2004

COMITATO SCIENTIFICO: Sergio CARRÀ, Emilio PICASSO, Alessandro PIGNATTI, Alberto QUADRIO CURZIO, Renato UGO

PROGRAMMA

Giovedì 7 ottobre

- 9.30 Indirizzi di saluto

Chemistry for processes and products of low environmental impact

Presiede Howard ALPER

- 9.50 Ugo ROMANO: New chemicals and new technologies for a sustainable chemistry
- 10.20 Philip G. JESSOP: The utility of carbon dioxide in homogeneous catalysis
 - 10.50 Intervallo
- 11.10 Ferruccio TRIFIRÒ: Heterogeneous catalysis for a sustainable chemical industry
- 11.40 Chao-Jun LI: Developing green chemistry for multi-step synthesis
- 12.10 Abdelhamid SAYARI: Sustainable development through catalysis and adsorption

Biocatalysis for a new approach to sustainable processes

Presiede Howard ALPER

- 14.10 Giacomo CARREA: White biotechnology for sustainable chemistry
- 14.40 Joelle PELLETIER: Engineering and laboratory evolution of enzymes as green catalysts
- 15.10 Peter C.K. LAU: Microorganisms and biocatalysts as environmental and sustainability tools
 - 15.40 Intervallo

Sustainable development of the agriculture and food industries

Presiede Renato UGO

- 16.00 Francesco SALAMINI: Sustainable agricultural production
- 16.30 Claudio PERI: Food quality, food safety, food ethics
- 17.00 J.R. Jocelyn PARÉ: The microwave-assisted processes (MAPTM): a Canadian contribution to sustainable development
 - 17.30 Discussione

Venerdì 8 ottobre

New energy technologies and new fuels for a lower environmental impact

Presiede G.R. Jocelyn PARÉ

- 9.30 Sergio CARRÀ: Chemical challenges in the global energy scenario
- 10.00 Steven HOLDCROFT: The importance of fundamental research in Materials Science for the advancement of fuel cell technology
- 10.30 Linda F. NAZAR: Nanostructured materials for energy storage
- 11.00 Steven H. BERGENS: Toward rechargeable 2 propanol fuel cells and magnetic resonance imaging of operating H₂/O₂ fuel cells
 - 11.30 Intervallo

Presiede Sergio CARRÀ

- 11.50 Francesco ZOFREA: Matching energy and sustainability demand: a critical issue for technology innovation
- 12.20 Gennaro DE MICHELE: R & D for clean fossil fuel electricity production
- 12.50 Charles STONE: PEM fuel cells: technology advances and remaining challenges for commercialization

Economical and technological aspects of sustainable development

Presiede Renato UGO

- 14.50 Roberto ZOBOLI: Environmental policy and economic costs
 - 15.20 Intervallo
- 15.40 Luigi PATRON: The development of new technologies will allow a more balanced global energy scenario
 - 16.10 Discussione e chiusura dei lavori
 - 19.30 Visita alla Villa Farnesina

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