

# Preliminary Congress Programme

## 10 March: Framing the Issues

### Opening session

Global Warming: How to Solve an Intractable Problem?

### Plenary sessions

Theme 1: Exploring the Risks: Understanding Climate Change

Theme 2: Sharing the Burdens and Opportunities: Equity Issues

### Parallel sessions

Theme 1: Exploring the Risks: Understanding Climate Change

- Cryosphere, Instabilities, Sea Level Rise.
- Global/Regional Climate State in 2030.
- Changes in Ocean Circulation Related to Regional Climate.
- Vulnerability in Carbon Sinks.
- Developing a Spectrum of Models to Describe the Earth System.
- Tipping Elements in the Earth System.
- Informing the Future by Understanding the Past.
- Earth System Feedbacks from Carbon Sequestration.
- Detection and Attribution: State of Play in 2009.

Theme 2: Sharing the Burdens and Opportunities: Equity Issues

- Equity between Sectors and Individuals within Countries.
- Equity between Nations and Regions.
- Equity in Time: Past, Present and Future Emitters and Victims.
- Equity between Humans and the Rest of Nature.
- Differential Effects of Climate Change on Human Health and Well-Being.
- Avoiding Land-Cover Change to Reduce Carbon Emissions.

## 11 March: From Knowledge to Action

### Plenary sessions

Theme 3: Reducing the Risks of Climate Change: Opportunities for Mitigation

Theme 4: Preparing for Impacts: Adapting to the Inevitable

### Parallel sessions

Theme 3: Reducing the Risks of Climate Change: Opportunities for Mitigation

- Integrating Economic Models and the Dynamics of the Carbon Sinks.
- Carbon Capture and Storage: Technology, Economy, Social Attitudes.
- Potentials and Limitations of Biofuels.
- Renewable Energies: How Far Can They Take Us?
- Enhancing Energy Conservation and Efficiency.
- Integrated Energy Mixes from a Socio-Economic and Environmental Perspective.
- Transforming Institutions to Managing a Carbon Constrained World.
- Integrating National and International Approaches to Emission Caps and Trading: Developing a Global Framework.
- The Role of Agriculture in Mitigating Climate Change.
- The Role of Forests in Mitigation Climate Change.
- Beyond Technology: Changing the Way We Live?
- Low Carbon Science, Technology Policies.
- Climate Change and Air Pollution: The Role of non-CO<sub>2</sub> Atmospheric Pollutants. (CH<sub>4</sub>, Halocarbons, N<sub>2</sub>O, Ozone, Aerosols) in Climate Stabilization.

Theme 4: Preparing for Impacts: Adapting to the Inevitable

- Climate Change and Water Systems.
- Impacts of Climate Change on Ecosystem Services.
- Biodiversity: Enhancement of Resilience or Facilitating Transformation .
- Economic Costs of not Adapting to Climate Change.
- Adapting Urban Areas to Climate Change.
- Adapting Human Land Use to Climate Change.
- Adapting Coastal Zone and Marine Resources to Climate Change.
- Approaches to Measuring and Enhancing Adaptive Capacities.
- Adapting Future Agricultural Production to Climate Change.
- Adapting Forests to Climate Change.
- Climate Tools and Information to Support Adaptation.
- Learning from Ongoing Adaptation: A Comparative Study.



## 12 March: From High-End Scenarios to Sustainable Solutions

### Plenary sessions

Theme 5: Managing the Planet

Theme 6: Mobilising the Populace: Human Dimensions of Climate Change

### Parallel sessions

Theme 5: Managing the Planet

- Integrating Climate Change into Global Sustainability.
- Filling in the Gaps between IA (Integrated Assessment), GCM (General Circulation Model), Economic and ES (Earth System) Models.
- From Geo-Perturbation to Geo-Management.
- Consequences of Acidification of Land and Ocean.
- Optimizing Food and Fibre Production in a C, N, H<sub>2</sub>O Constrained world.
- Earth System Governance.

Theme 6: Mobilising the Populace: Human Dimensions of Climate Change

- Enhancing Food Security in a Changing World.
- Economic Costs of not Mitigating Climate Change.
- Role of Media in Contributing in Combating Climate Change.
- The Role of non Nation State Actors (Cities, NGOs, Business) in Combating Climate Change.
- Resources in a Changing Climate: Building Collaboration and Avoiding Conflict.
- Human Migration - Geopolitical Conflicts.
- Cultures, Values and World Perspectives as Factors in Responding to Climate Change.

### Synthesis and Summary