

DETAILED ORAL SESSION PROGRAMME

(Updated 17 April 2009)

Tuesday, 10 March 2009

10:30 - 14:40

Plenary Hall - Auditorium A

Opening Session

Chairs: Professor Ian Chubb, ANU & IARU President & Dr Richard Levin, President, Yale University

Confirmed Speakers

Professor Katherine Richardson, University of Copenhagen

Mrs Connie Hedegaard, Danish Minister of Climate & Energy

Mr John Ashton, Special Representative for Climate Change, United Kingdom Foreign and Commonwealth Office

Professor Qingchen Chao, Deputy Director General, Department of Science & Technology, China Meteorological Administration

Mr Helge Sander, Danish Minister of Science, Technology & Innovation

Dr Rajendra K Pachauri, Chairman of IPCC

Professor Stefan Rahmstorf, Potsdam Institute for Climate Impact Research

12:00 - 13:30

Lunch

14:40 - 15:00

Coffee Break

15:00 - 16:30 S01A

Hall B - Room D

Session 01 - Cryosphere, Instabilities, Sea Level Rise Part I

Chairs: Professor Dorthe Dahl-Jensen, University of Copenhagen & Professor Konrad Steffen, University of Colorado at Boulder

- 15:00 - 15:15 S01.01 **Invited Paper:** Understanding sea level change over the last half century and its implications for the future
John Church (Australia), N White, C Domingues, J Gregory, K Steffen
- 15:15 - 15:30 S01.02 Reconstructing sea level from paleo and projected temperatures 200 to 2100AD
Aslak Grinsted, (Denmark) J Moore, S Jevrejeva
- 15:30 - 15:45 S01.03 Greenland ice cores tell tales on the Eemian Period and beyond
Dorthe Dahl-Jensen (Denmark)
- 15:45 - 16:00 S01.04 **Invited Paper:** Sea level change as an indicator of cryosphere instabilities
Kurt Lambeck (Australia)
- 16:00 - 16:15 S01.05 Monitoring the mass loss of the Greenland ice sheet
Andreas Peter Ahlstrøm (Denmark), D van As, M Citterio, P Gravesen, R Forsberg, EL Christensen, SS Kristensen, D Petersen, SB Andersen, L Stenseng, RS Fausto, S Hanson
- 16:15 - 16:30 S01.06 Reassessment of the potential contribution to sea level from a collapse of the West Antarctic Ice Sheet
Jonathan Bamber (UK), R Riva, B Vermeersen

16:30 - 17:00

Coffee Break

17:00 - 18:30 S01B

Hall B - Room D

Session 01 - Cryosphere, Instabilities, Sea Level Rise Part II

- 17:00 - 17:15 S01.07 Ice mechanical properties of the Larsen C ice shelf from in-situ geophysical measurements and implications for shelf stability
Bernd Kulessa (UK), E King, D Jansen, A Luckman, P Sammonds
- 17:15 - 17:30 S01.08 The Patagonian ice fields: an updated assessment of sea level contribution
Gino Casassa (Chile), W Krabill, A Rivera, J Wendt, A Wendt, P López, F Bown, E Rignot, R Thomas, J Yungel, J Sonntag, E Frederick, R Russell, M Linkswiler, A Arendt, K Steffen
- 17:30 - 17:45 S01.09 Acceleration of Arctic sea ice drift and deformation over the last 30 years
Jerome Weiss (France), P Rampal, D Marsan
- 17:45 - 18:00 S01.10 Understanding abrupt climate change: the importance of orbital insolation
Jose Rial (USA), R Saha

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17:00 - 18:30 S01B

Hall B - Room D

Session 01 - Cryosphere, Instabilities, Sea Level Rise Part II (cont.)

- 18:00 - 18:15 S01.11 Aerosol deposition on glaciers and resulting melting from darkening
Carl Egede Bøggild (Norway), R Solberg, AJ Hodson
- 18:15 - 18:30 S01.12 Forty years of weather data to understand recent climate change in the arctic (Svalbard, 79°N)
Madeleine Griselin (France), C Marlin, D Laffly, E Bernard, E Delangle

15:00 - 16:30 S02A

Hall B - Room K

Session 02 - Global/Regional Climate State in 2030 Part I

Chairs: Professor John Mitchell, Met Office, Exeter & Professor Masahide Kimoto, University of Tokyo

- 15:00 - 15:15 S02.01 Decadal climate prediction: challenges and opportunities
James Hurrell (USA)
- 15:15 - 15:30 S02.02 Quantifying uncertainty, interpreting ensembles and combining models with process understanding
David Stainforth (UK), L Smith
- 15:30 - 15:45 S02.03 Influence of future air-pollution mitigation strategies on climate by 2030
Silvia Kloster (USA), F Dentener, F Raes, J Feichter, U Lohmann, E Roeckner
- 15:45 - 16:00 S02.04 Climate change over China in the past, present and year 2030
Zong-Ci Zhao (PR China), Y Luo, Y Jiang, S Tao
- 16:00 - 16:15 S02.05 Physical mechanism and quantitative assessment of the planetary boundary layer feedback in the climate system
Igor Esau (Norway)
- 16:15 - 16:30 S02.06 High resolution regional climate change modelling in CECILIA Project - climate change signal in central and Eastern Europe
Tomas Halenka (Czech Republic), J Miksovsky, M Belda, P Huszar

16:30 - 17:00

Coffee Break

17:00 - 18:30 S02B

Hall B - Room K

Session 02 - Global/Regional Climate State in 2030 Part II

- 17:00 - 17:15 S02.07 The North American Regional Climate Change Assessment Program (NARCCAP): overview of Phase II results
Linda Mearns on behalf of NARCCAP Team (USA)
- 17:15 - 17:30 S02.08 A multi-member, high-resolution, transient simulation of 20th and 21st century climate in the United States
Noah Diffenbaugh (USA), M Ashfaq
- 17:30 - 17:45 S02.09 The EU-FP7 'ACQWA' Project: exploring issues of water in vulnerable mountain regions
Martin Beniston (Switzerland)
- 17:45 - 18:00 S02.10 Climate indices for the prediction of European agricultural production in 2020 and 2040
Neil MacKellar (Denmark), S Yang, J Olesen
- 18:00 - 18:15 S02.11 Modelling yield distribution as affect by extreme events
Marco Moriondo (Italy), M Bindi, N Luger
- 18:15 - 18:30 Discussion

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15:00 - 16:30 S03A

Hall B - Room P

Session 03 - Changes in Ocean Circulation Related to Regional Climate Part I

Chairs: Professor Martin Visbeck, IFM-GEOMAR, University of Kiel & Professor Nathan Bindoff, University of Tasmania

- 15:00 - 15:15 S03.01 Evolution of Atlantic Ocean properties and circulation from the tropics to the Arctic
Ruth Curry (USA)
- 15:15 - 15:30 S03.02 Evolution of Southern Ocean under climate change: dynamics and feedbacks
Sabrina Speich (France), SR Rintoul, K Speer
- 15:30 - 15:45 S03.03 Global and regional warming: the Mediterranean sea case from observation and modeling
Vincenzo Artale (Italy), S Marullo, R Santoleri
- 15:45 - 16:00 S03.04 Global and regional 50 year ocean salinity trends
Susan Wijffels (Australia), P Durack
- 16:00 - 16:15 S03.05 Changes in global upper-ocean heat content over the last half century and comparison with climate models
John Church (Australia) C Domingues, N White(1,2), S Wijffels, P Barker, P Gleckler
- 16:15 - 16:30 Discussion

16:30 - 17:00

Coffee Break

17:00 - 18:30 S03B

Hall B - Room P

Session 03 - Changes in Ocean Circulation Related to Regional Climate Part II

- 17:00 - 17:15 S03.06 Recent decadal warming and freshening of Antarctic-derived abyssal waters
Gregory Johnson (USA)
- 17:15 - 17:30 S03.07 Changes in the Arctic atmosphere-ice-ocean system
Igor Polyakov (USA)
- 17:30 - 17:45 S03.08 Why is the response of European climate to a collapse of the Atlantic meridional overturning circulation relatively small?
Wilco Hazeleger (The Netherlands), A Laurian, S Drijfhout, B van den Hurk
- 17:45 - 18:00 S03.09 Review of ocean temperature, salinity and oxygen changes in the Pacific and subtropical southern hemisphere
Lynne D Talley (USA)
- 18:00 - 18:15 S03.10 Stability of the interaction between the North Atlantic THC and its key source: the Nordic Seas
Bogi Hansen (Faeroe Islands) H Hátún, S Østerhus, D Quadfasel, S Jónsson, H Valdimarsson, B Turrell, S Hughes, B Berx, T Sherwin
- 18:15 - 18:30 Discussion

15:00 - 16:30 S04A

Hall B - Room O

Session 04 - Vulnerability in Carbon Sinks Part I

Chairs: Dr Michael Raupach, (CSIRO) Marine and Atmospheric Research & Professor Nicolas Gruber, ETH Zurich

- 15:00 - 15:30 S04.01 Vulnerability of the terrestrial C sink
Christopher B Field (USA)
- 15:30 - 15:45 S04.02 Vulnerability of terrestrial carbon sinks to high temperature extremes
Robert Scholes (South Africa), R Makhado
- 15:45 - 16:00 S04.03 Vulnerability of carbon stocks in tropical forests
Ruth DeFries (USA)
- 16:00 - 16:15 S04.04 Drought sensitivity of the amazon carbon sink
Oliver Phillips (UK), L Aragao, S Lewis, J Fisher, J Lloyd, G Lopez-Gonzalez, Y Malhi, A Monteagudo, J Peacock, C Quesada, G van der Heijden, S Almeida
- 16:15 - 16:30 S04.05 New observations suggest vulnerability of the carbon sink in tropical rainforests
David W Hilbert (Australia), JG Canadell, D Metcalfe, M Bradford

16:30 - 17:00

Coffee Break

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17:00 - 18:30 S04B

Hall B - Room O

Session 04 - Vulnerability in Carbon Sinks Part II

- 17:00 - 17:30 S04.06 Recent trend in the global oceanic sink for CO₂
Corinne Le Quere (UK)
- 17:30 - 17:45 S04.07 The vulnerability of the coastal carbon cycle
Nicolas Gruber (Switzerland), **Z Lachkar**, **G-K Plattner**, **C Hauri**
- 17:45 - 18:00 S04.08 Long-term commitment of CO₂ emissions on the global carbon cycle and climate
Gian-Kasper Plattner (Switzerland)
- 18:00 - 18:15 S04.09 The role of climate variability and extremes for global terrestrial carbon dynamics: lessons learnt from multiple observations and experiments
Markus Reichstein (Germany), **P Ciais**, **C Beer**, **C Beier**, **A Ibrom**, **I Janssens**, **M Jung**, **L Misson**, **S Seneviratne**, **P Smith**, **C Williams**, **C Wirth**
- 18:15 - 18:30 S04.10 Quantifying and ranking vulnerabilities in the carbon-climate-human system
Michael R Raupach (Australia), **N Gruber**, **P Ciais**, **PJ Rayner**
Discussion

15:00 - 16:35 S05A

Hall B - Room Q

Session 05 - Developing a Spectrum of Models to Describe the Earth System Part I

Chair: Professor Martin Claussen, KlimaCampus University Hamburg, Max Planck Institute for Meteorology

- 15:00 - 15:20 S05.01 **Invited Paper:** A multiscale modelling framework for atmospheric flows
Rupert Klein (Germany)
- 15:20 - 15:35 S05.02 A GCM study on CO₂ emission pathways to climate stabilization
Erich Roeckner (Germany), **M Giorgetta**, **T Crueger**, **M Esch**, **J Pongratz**
- 15:35 - 15:50 S05.03 The Met Office Hadley Centre next generation Earth System Model
William Collins (UK), **M Doutriaux-Boucher**, **C Jones**, **F O'Connor**, **I Totterdell**
- 15:50 - 16:05 S05.04 EC-Earth: a seamless prediction approach to earth system modelling
Wilco Hazeleger (The Netherlands), **C Jones**, **R McGrath**, **J Hesselbjerg-Christensen**
- 16:05 - 16:20 S05.05 Analysis of climate-biosphere interactions using a spectrum of models of various complexity
Victor Brovkin (Germany), **M Claussen**
- 16:20 - 16:30 Discussion

16:30 - 17:00

Coffee Break

17:00 - 18:30 S05B

Hall B - Room Q

Session 05 - Developing a Spectrum of Models to Describe the Earth System Part II

- 17:00 - 17:15 S05.06 Adding human dimensions to earth system models
Joseph Alcamo, Germany
- 17:15 - 17:30 S05.07 PRIMAP – Potsdam Real-Time Integrated Model for the probabilistic assessment of emission paths
Malte Meinshausen (Germany), **B Hare**, **K Frieler**, **J Nabel**, **K Markmann**, **M Schaeffer**, **J Rogelj**
- 17:30 - 17:45 S05.08 Setting cumulative emissions targets to reduce the risk of dangerous climate change
Kirsten Zickfeld (Canada) **M Eby**, **HD Matthews**, **AJ Weaver**
- 17:45 – 18:05 S05.09 **Invited Paper:** From cost-optimal emissions to impacts of greenhouse gases: closing the loop in earth system modelling
Hermann Held (Germany)
- 18:05 - 18:30 Discussion

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15:00 - 16:30 S06A

Hall B - Room E

**Session 06 - Tipping Elements in the Earth System Part I –
Paleo and Ice Sheet Tipping**

Chairs: Professor Matthew England, University of New South Wales & Professor Tim Lenton, University of East Anglia

- 15:00 - 15:30 S06.01 **Invited Paper:** Abrupt climate change: findings from the us climate change science program synthesis and assessment product 3.4
Andrew Weaver (Canada), P Clark, E Brook, E Cook, T Delworth, J McGeehin, K Steffen
- 15:30 - 15:45 S06.02 Multiple West Antarctic ice sheet retreats could explain southern warmth in recent interglacials
Phil Holden, N(UK), Edwards, E Wolff
- 15:45 - 16:00 S06.03 What is the tipping point for the Greenland Ice Sheet?
Jonathan Bamber (UK), E Steig, D Dahl-Jensen
- 16:00 - 16:15 S06.04 The anatomy of abrupt warming and cooling climate transitions from two Greenland ice cores
Trevor James Popp (Denmark), JWC White
- 16:15 - 16:30 S06.05 Slowing down as an early warning signal for abrupt climate change
Marten Scheffer (The Netherlands), V Dakos, EH van Nes

16:30 - 17:00

Coffee Break

17:00 - 18:30 S06B

Hall B - Room E

**Session 06 - Tipping Elements in the Earth System Part II –
Atmosphere and Ocean Tipping Points**

- 17:00 - 17:30 S06.06 **Invited paper:** Abrupt climate change: atmospheric tipping points
Kerry H Cook (USA)
- 17:30 - 17:45 S06.07 Processes associated with the fast warming rate of the Southern Hemisphere midlatitude ocean
Wenju Cai (Australia), T Cowan
- 17:45 - 18:00 S06.08 The decreasing summer Arctic sea ice cover and the ice albedo feedback
Don Perovich (USA)
- 18:00 - 18:15 S06.09 Is the stability of the Atlantic MOC changed by global warming?
Sybren Drijfhout (The Netherlands), E de Swaluw, S Weber
- 18:15 - 18:30 S06.10 Towards the probability of crossing tipping points
Peter Challenor (UK), D McNeall

15:00 - 16:30 S07A

Hall B - Room I

Session 07 - Informing the Future by Understanding the Past Part I

Chairs: Dr Bette Otto-Bliesner, National Center for Atmospheric Research (NCAR) & Dr Chris Turney, University of Exeter

- 15:00 - 15:15 S07.01 Palaeoclimatic insights and challenges inferred from ice core studies
Sune Olander Rasmussen (Denmark)
- 15:15 - 15:30 S07.02 The impact of global warming on precipitation patterns
Wallace S Broecker (USA)
- 15:30 - 15:45 S07.03 Recent movements of the ITCZ in the tropical Pacific and ramifications for the Marshall Islands
Julian Sachs & Mark Stege (Marshall Islands), T Keju
- 15:45 - 16:00 S07.04 High summer rainfall during the warm Early Pleistocene in the southern hemisphere: analogue for future greenhouse climates?
JM Kale Sniderman (Australia), N Porch
- 16:00 - 16:15 S07.05 Ecosystem response to abrupt climate change during the last glacial period in Western Europe - the Lacustrine Sequence of Les Echets
Barbara Wohlfarth (Sweden), L Ampel, D Veres, M Blaauw, F Preusser
- 16:15 - 16:30 S07.06 The age of small prey: diet and climate variability at the Pleistocene-Holocene boundary and beyond
Emily Lena Jones (USA)

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16:30 - 17:00

Coffee Break

17:00 - 18:30 S07B

Hall B - Room I

Session 07 - Informing the Future by Understanding the Past Part II

- 17:00 - 17:15 S07.07 Archaeology and Climate change in the caribbean: lessons from the past for problems of the future
Jago Cooper (UK), M Peros
- 17:15 - 17:30 S07.08 Lessons of the mid-Pliocene: Planet Earth's last interval of greater global warmth
Alan Haywood (UK), S Bonham, D Hill, D Lunt, U Salzmann
- 17:30 - 17:45 S07.09 The last interglacial warm period record of the Arctic Ocean: proxy-data support a major reduction of sea ice
Niels Nørgaard-Pedersen (Denmark), N Mikkelsen, Y Kristoffersen
- 17:45 - 18:00 S07.10 Hazard and rates of sea level rise: what can we learn from the last interglacial?
Robert E Kopp (USA), FJ Simons, AC Maloof, D Kroon, S Jung, M Oppenheimer
- 18:00 - 18:15 S07.11 Dangerous ocean acidification
Andrew Ridgwell (UK), D Schmidt
- 18:15 - 18:30 S07.12 What can earth's deep past tell us about the future?
Jeffrey Kiehl (USA)

15:00 - 16:30 S08A

Hall B - Room N

Session 08 - Earth System Feedbacks and Carbon Sequestration Part I

Chairs: Professor Keith Paustian, Colorado State University & Professor Scott Denning, Colorado State University

- 15:00 - 15:15 S08.01 Global carbon sources and sinks: 2007 update
Pep Canadell (Australia), C Lequre, M Raupach, P Ciais, T Conway, C Field, S Houghton, G Marland
- 15:15 - 15:30 S08.02 Biogeochemical feedbacks in the earth system
Iain Colin Prentice (UK)
- 15:30 - 15:45 S08.03 Future climate carbon cycle feedbacks, reducing uncertainties through process evaluation
Corinne Le Quere (UK)
- 15:45 - 16:00 S08.04 Land-surface-cloud coupling and climate change
Alan K Betts (USA)
- 16:00 - 16:15 S08.05 Climate change in an Arctic mountainous area in the period 1900-2100 and the effect on permafrost and the ecosystem carbon stocks
Birger Ulf Hansen (Denmark), C Sigsgaard, M Tamstorf, B Elberling, T Friborg, KM Iversen, M Rasch
- 16:15 - 16:30 S08.06 Greenhouse gas fluxes at a continental tundra site in NE Siberia and radiative forcing of advancing of the growing season
Michiel van der Molen (The Netherlands), K van Huissteden, F-J Parmentier, R de Jeu, T Holmes, H Dolman

16:30 - 17:00

Coffee Break

Tuesday, 10 March 2009

17:00 - 18:30 S08B

Hall B - Room N

Session 08 - Earth System Feedbacks and Carbon Sequestration Part II

- 17:00 - 17:15 S08.07 Climatic feedbacks in ecosystems of the arctic region
Thomas Friberg (Denmark), J Falk, L Groendahl, BU Hansen, M Herbst, T Johansson, I Kiepe, H Soegaard
- 17:15 - 17:30 S08.08 Ocean iron fertilization: an examination of sequestration potential, environmental impacts and feedbacks
Margaret Leinen (USA), D Whaley, K Whilden
- 17:30 - 17:45 S08.09 Increasing carbon storage in intact African tropical forests: implications for the global carbon cycle
Simon Lewis (UK), G Lopez-Gonzalez, B Sonké, K Affum-Baffoe, L Ojo, L White, T Hart, A Hladik, D Sheil, M Swaine, D Taylor, O Phillips
- 17:45 - 18:15 S08.10 The role of land use and land cover in stabilizing atmospheric CO₂
James Edmonds (USA)
- 18:15 - 18:30 Discussion

15:00 - 16:30 S09A

Hall B - Room J

Session 09 - Detection and Attribution: State of Play in 2009 Part I

Chair: Professor Ann Henderson-Sellers, Macquarie University

- 15:00 - 15:15 S09.01 How does attributable human influence on climate constrain forecasts of the future?
Myles Allen (UK), D Frame, C Huntingford, C Jones, J Lowe, M Meinshausen, N Meinshausen
- 15:15 - 15:30 S09.02 Recent progress on detection and attribution of the water cycle
Peter Stott (UK)
- 15:30 - 15:45 S09.03 Human-Modified Temperatures Induce Species Changes: Joint Attribution
Terry Root (USA), DP MacMynowski, MD Mastrandrea, SH Schneider
- 15:45 - 16:00 S09.04 Can we regionalise adaptation when we are challenged by regionalising detection?
Jean Palutikof (UK)
- 16:00 - 16:15 S09.05 Post IPCC AR4 biological and physical impact data analysis
Cynthia Rosenzweig (USA)
- 16:15 - 16:30 S09.06 Discernable effects of climate change on crop production
Peter Gregory (UK)

16:30 - 17:00

Coffee Break

17:00 - 18:30 S09B

Hall B - Room J

Session 09 - Detection and Attribution: State of Play in 2009 Part II

- 17:00 - 17:15 S09.07 Climate change and extreme weather
Greg Holland (USA)
- 17:15 - 17:30 S09.08 Detection and attribution: the case of escalating damage from extreme events
Laurens Bouwer (The Netherlands), R Pielke
- 17:30 - 17:45 S09.09 Frozen carbon: a time bomb in the future?
Philippe Ciais (France), D Khvorostianov, S Zimov, G Krinner, P Friedlingstein, S Piao, C Koven
- 17:45 - 18:00 S09.10 Coupling climate models with human decision making
Kevin Noone (Sweden), J Norberg, A Henderson-Sellers
- 18:00 - 18:15 S09.11 Detection and attribution since the production of the IPCC Fourth Assessment Report
Lucka Kajfez Bogataj (Slovenia)
- 18:15 - 18:30 S09.12 What are the large ice sheets in Greenland and Antarctica doing now?
Eric Rignot (USA)

Tuesday, 10 March 2009

15:00 - 16:30 S10A

Hall B - Room I

Session 10 - Equity between Sectors and Individuals within Countries Part I

Chairs: Dr Paul Baer, Research Director, The College of William and Mary and Oxford University & Dr Sivan Kartha, Stockholm Environment Institute

- 15:00 - 15:15 S10.01 Equity in the climate regime: the forgotten 2.5 Billion
Ambuj Sagar (India)
- 15:15 - 15:30 S10.02 Vulnerability, adaptability and mitigation of the context of challenges of climate change: the balance of benefits in traditional and urban paradigms in Ghana
Jones Lewis Arthur (Ghana)
- 15:30 - 15:45 S10.03 Variation in household CO2 emissions and the consequences for burden sharing
Annemarie C Kerkhof (The Netherlands), RMJ Benders, HC Moll
- 15:45 - 16:00 S10.04 A 'ground-up' interpretation of fair burden-sharing within countries - an entitlement to equitable household energy services
Narasimha Rao (USA)
- 16:00 - 16:15 S10.05 Policy implications of post-2012 allocation based on individual emissions
Heleen de Coninck (The Netherlands), S Chakravarty, A Chikkatur, S Pacala, R Socolow, M Tavoni
- 16:15 - 16:30 S10.06 Does the philosophical literature support an equal per capita allocation of emissions rights within nations?
Richard Starkey (UK)

16:30 - 17:00

Coffee Break

17:00 - 18:30 S10B

Hall B - Room I

Session 10 - Equity between Sectors and Individuals within Countries Part II

- 17:00 - 17:15 S10.07 Opportunities for mitigation: considering the gender gap
Susan Buckingham (UK), JE da Veiga
- 17:15 - 17:30 S10.08 Methane and the natural debt: a combined index of responsibility
Kirk R Smith (USA), JV Rogers
- 17:30 - 17:45 S10.09 Climate policy and the problem of competitiveness: border tax adjustments or integrated emission trading?
Victoria Alexeeva-Talebi (Germany), A Löschel, T Mennel
- 17:45 - 18:15 S10.10 Biofuels, poverty, and growth: a computable general equilibrium analysis of Mozambique
Finn Tarp (Denmark), C Arndt, R Benfica, J Thurlow, R Uaiene
- 18:00 - 18:15 S10.11 Tropical forest product markets and addressing adaptation priorities of forest communities in West and Central Africa
Johnson Nkem (Indonesia), M Idinoba, K Fobissie, A Awono, O Somorin
- 18:15 - 18:30 S10.12 Inequality and the missing common good: Challenges to climate adaptation in the new (neoliberal) world order
Paul Baer (UK)

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15:00 - 16:30 S11A

Hall B - Room Y

Session 11 - Equity between Nations and Regions Part I

Chairs: Dr Timmons Roberts, The College of William and Mary and Oxford University & Professor Coleen Vogel, University of Witwatersrand

- 15:00 - 15:15 S11.01 Common but differentiated responsibilities' defined on the basis on equity for future climate change regime
Sanjay Vashist (India), M Alam, S Krishnaswamy, P Bahouth, V Bartra, T Athanasiou, S Singer, A Hill
- 15:15 - 15:30 S11.02 Do equity preferences matter for climate negotiators? An experimental investigation
Bodo Sturm (Germany), A Dannenberg, C Vogt
- 15:30 - 15:45 S11.03 Effort-sharing between regions in ambitious climate scenarios
Tommi Ekholm (Finland), S Soimakallio, S Syri, N Höhne, S Moltmann
- 15:45 - 16:00 S11.04 Participation for developing countries: some criteria
Jyoti Parikh (India)
- 16:00 - 16:15 S11.05 The health impacts of climate change will exacerbate inequities
Kristie Ebi (USA)
- 16:15 - 16:30 S11.06 Distributing emission allowances versus sharing mitigation burden: two contrary perspectives on climate justice among world regions
Brigitte Knopf (Germany), M Lüken, N Bauer, O Edenhofer

16:30 - 17:00

Coffee Break

15:00 - 16:30 S11B

Hall B - Room Y

Session 11 - Equity between Nations and Regions Part II

- 17:00 - 17:15 S11.07 Analysing reductions in Annex I and non-Annex I for meeting concentration stabilisation targets
Michel den Elzen (The Netherlands), N Höhne
- 17:15 - 17:30 S11.08 International adaptation finance: the need for an innovative and strategic approach
Benito Müller (UK)
- 17:30 - 17:45 S11.09 An ethical approach to the international-level funding of adaptation to climate change
Marco Grasso (Italy)
- 17:45 - 18:00 S11.10 Effects of the CDM on poverty eradication and global climate protection
Dirk Rübelke (Norway), N Rive
- 18:00 - 18:15 S11.11 Technology transfer and financing: issues for long term climate policy in developing countries
Tirthankar Mandal (India)
- 18:15 - 18:30 S11.12 Building a 'Global Adaptation Atlas': setting geographic priorities for funding adaptation to climate change
Shalini Vajjhala (USA)

15:00 - 16:30 S12A

Hall B - Room R

Session 12 - Equity in Time: Past, Present and Future Emitters and Victims Part I

Chairs: Dr Carlos Nobre, Brazil National Institute for Space Research and Chair of IGBP & Dr Cameron Hepburn, Oxford University

- 15:00 - 15:30 **Keynote Lecture:** Climate change and the future: discounting for time, wealth, and risk
Simon Caney (UK)
- 15:30 - 15:45 S12.01 Climate change, social justice and development
Terry Barker (UK), SS Scricciu, D Taylor
- 15:45 - 16:00 S12.02 Economic models and the rights of future generations
Dominic Roser (Switzerland)
- 16:00 - 16:15 S12.03 Economics, ethics and climate change
Simon Dietz (UK), C Hepburn, N Stern
- 16:15 - 16:30 Discussion

16:30 - 17:00

Coffee Break

Tuesday, 10 March 2009

17:00 - 18:30 S12B

Hall B - Room R

**Session 12 - Equity in Time: Past, Present and Future
Emitters and Victims Part II**

- 17:00 - 17:15 S12.04 COP-15 and the ethics of climate change
José Eli da Veiga (Brazil), MV Pettersen
- 17:15 - 17:30 S12.05 Methodology of simplified Brazilian proposal and the long-term contribution to temperature rise
Hiromi Nishimoto (Japan), Y Matauoka
- 17:30 - 17:45 S12.06 Individual preferences for aversion to public and private risk, inequality, and time - an empirical study
Jennifer Helgeson (USA), H Sælen, G Atkinson, S Dietz, C Hepburn
- 17:45 - 18:10 S12.07 Sustainability as generosity
Herman Vollebergh (The Netherlands), R Gerlagh
- 18:10 - 18:30 Discussion

16:30 - 17:00

Coffee Break

15:00 - 16:30 S13A

Hall B - Room S

Session 13 - Equity between Humans and the Rest of Nature Part I

Chairs: Professor Dale Jamieson, New York University & Dr William Schlesinger, Cary Institute of Ecosystem Studies

- 15:00 - 15:20 S13.01 Effects of European bioenergy policies and targets on land use allocations and nature conservation options
Christine Schleupner (Germany), UA Schneider
- 15:20 - 15:40 S13.02 Survival of humankind rather than equity between humans and the rest of nature
Furio Cerutti (Italy)
- 15:40 - 16:00 S13.03 Framing natural resource management for climate resilience
Marilyn Averill (USA)
- 16:00 - 16:30 Discussion

16:30 - 17:00

Coffee Break

17:00 - 18:30 S13B

Hall B - Room S

Session 13 - Equity between Humans and the Rest of Nature Part II

- 17:00 - 17:20 S13.04 Human happiness - friend or foe?
Mikko Yrjönsuuri (Finland)
- 17:20 - 17:40 S13.05 Extinction, suffering, and the cruciformity of the cosmos
Kyle Van Houtan (USA) (Cancelled paper)
- 17:40 - 18:00 S13.06 Climate change and biodiversity preservation: a non-anthropocentric perspective
Anders Melin (Sweden)
- 18:00 - 18:10 Wrap-up
Dale Jamieson, USA
- 18:10 - 18:30 Discussion

Tuesday, 10 March 2009

15:00 - 16:30 S14A

Hall B - Room U

Session 14 - Differential Effects of Climate Change on Human Health and Well-Being Part I

Chairs: Professor Anthony J McMichael, Australian National University & Dr Roberto Bertollini, WHO Headquarters

- 15:00 - 15:05 Introduction
Anthony J McMichael (Australia)
- 15:05 - 15:20 S14.01 A proactive public health approach to climate change: tackling the infectious disease challenge
Jan Semenza (Sweden), J Suk
- 15:20 - 15:35 S14.02 Potential impact of, and adaptation to, climate change influence on schistosomiasis transmission in China
Xiao-Nong Zhou (PR Chian), K Yang, G-J Yang, X-H Wu, TK Kristensen, R Bergquist, J Utzinger
- 15:35 - 15:40 S14.03 Potential impacts of climate change on snail-borne disease in sub-Saharan Africa
Anna-Sofie Stensgaard (Denmark), TK Kristensen, C Rahbek, F Møhlenberg
- 15:40 - 15:55 S14.04 Climate change implications for contaminant exposures in the Arctic
Philippe Grandjean (USA), P Bjerregaard, P Weihe
- 15:55 - 16:10 S14.05 Climate change, food yields, food security, and health
Colin D Butler (Australia)
- 16:10 - 16:20 S14.06 Physiological heat stress due to climate change: risk differentials exacerbates health inequities
Tord Kjellstrom (Australia), B Lemke
- 16:20 - 16:30 S14.07 Quantifying regional heat stress increases in warmer and more humid climates
Steven Sherwood (USA), K Willet,

16:30 - 17:00

Coffee Break

17:00 - 18:30 S14B

Hall B - Room U

Session 14 - Differential Effects of Climate Change on Human Health and Well-Being Part II

- 17:00 - 17:05 Introduction
Roberto Bertollini, WHO Headquarters
- 17:05 - 17:20 S14.08 Estimating the health burden of current and future extreme events
Sari Kovats (UK)
- 17:20 - 17:35 S14.09 Health risks of current and future heat stress in East Asia a. In title, replace 'stress' with 'extremes'
Yasushi Honda (Japan)
- 17:35 - 17:45 S14.10 Projected impacts on heat-related mortality from changes in the mean and variability of temperature with climate change
Simon Gosling (UK), J Lowe, G McGregor
- 17:45 - 18:05 S14.11 Health adaptation choices at local and regional scales
Kristie Ebi (USA)
- 18:05 - 18:20 S14.12 Health and climate co-benefits: a survey of the mitigation landscape
Kirk R Smith (USA)
- 18:20 - 18:30 Wrap-up overview
Simon Hales, WHO Headquarters

Tuesday, 10 March 2009

15:00 - 16:30 S15

Hall B - Room G

Session 15 - Avoiding Land-Cover Change to Reduce Carbon Emissions

Chair: Professor Mark S Ashton, Yale School of Forestry and Environmental Studies & Professor Liping Zhou, Peking University

- 15:00 - 15:20 S15.01 Ensuring 'permanence' in forest carbon sinks: insights from contract theory
Charles Palmer (Switzerland), *M Ohndorf, I MacKenzie*
- 15:20 - 15:40 S15.02 Providing financial support where action takes place: "Compensated Successful Efforts" for REDD
Romain Pirard (France), *P Combes-Motel, J-L Combes*
- 15:40 - 16:00 S15.03 Reducing deforestation is essential for constraining global temperatures to 2°C above pre-industrial levels
Rachel Warren (UK), *J Price, B Strassburg, J Lowe, S de la Nava Santos, S Raper, N Vaughan*
- 16:00 - 16:20 S15.04 Climate policy design and forest carbon sequestration
Steven Rose (USA), *B Sohngen*
- 16:20 - 16:30 Discussion

16:30 - 17:00

Coffee Break

15:00 - 16:30 S17A

Hall B - Room M

Session 17 - Carbon Capture and Storage: Technology, Economy, Social Attitudes Part I

Chair: Professor Wim C Turkenburg, Director Copernicus Institute, Utrecht University

- 15:00 - 15:05 S17.01 Introduction to the session on Carbon Capture Storage
Wim C Turkenburg (The Netherlands)
- 15:05 - 15:25 S17.02 What have we learnt from CCS demonstration projects?
Tim Dixon (UK), *J Gale, B Beck*
- 15:25 - 15:45 S17.03 Experience with CO2 capture from coal flue gas in pilot-scale
Jacob Nygaard Knudsen (Denmark), *JN Jensen, PJ Vilhelmsen, O Biede*
- 15:45 - 16:05 S17.04 Outlook for CO2 capture technologies
Olav Bolland (Norway)
- 16:05 - 16:25 S17.05 United States carbon sequestration regional partnerships
Bruce Lani (USA), *S Plasynski, S Klara*
- 16:25 - 16:30 Discussion

16:30 - 17:00

Coffee Break

15:00 - 16:30 S35A

Hall B - Room X

Session 35 - Adapting Coastal Zone and Marine Resources to Climate Change Part I

Chair: Professor Pier Vellinga, Wageningen University & Professor Jeroen Aerts, IVM Vrije Universiteit Amsterdam

- 15:00 - 15:15 S35.01 Adapting coastal zone and marine resources to climate change and integrating human dimensions during natural disasters
Narendra Kumar Choudhary (India), *LP Chaudhari, AG Bhole*
- 15:15 - 15:30 S35.02 Informing adaptation: a new set of marine climate change scenarios
Jonathan Tinker (UK), *J Lowe, T Howard, D de Gusmão, J Wolf, K Horsburgh, J Holt, T Reeder*
- 15:30 - 15:45 S35.03 Policy options for adapting marine ecosystems to climate change
Ian Perry (Canada), *M Barange*
- 15:45 - 16:00 S35.04 Exploring high-end climate change scenarios for flood protection of the Netherlands
Wilco Hazeleger (The Netherlands), *C Katsman, A Sterl, J Beersma*

Tuesday, 10 March 2009

15:00 - 16:30 S35A

Hall B - Room X

**Session 35 - Adapting Coastal Zone and Marine Resources
to Climate Change Part I (cont.)**

- 16:00 - 16:15 S35.05 Vulnerability assessment for development of strategic planning policies for Eastern Mediterranean Coast of Morocco
Allali Abdelkader (Morocco)
- 16:15 - 16:30 S35.06 Ecosystem-based adaptation to climate change in coastal and marine areas
Lynne Hale (USA), P Van Ejik, M Hatziois, N Davidson, R Chacko, C Toropova

16:30 - 17:00

Coffee Break

17:00 - 18:30 S35B

Hall B - Room X

**Session 35 - Adapting Coastal Zone and Marine Resources
to Climate Change Part II**

- 17:00 - 17:15 S35.07 Testing empirical relationships between global sea-level and global temperature in long climate model simulations
Eduardo Zorita (Germany), H von Storch
- 17:15 - 17:30 S35.08 Decision support model to risk management and adaptation strategies to climate change in Buenos Aires coast, Argentina
Leandro Fernandez (Argentina), J Karol, N Castillo
- 17:30 - 17:45 S35.09 A survey of stakeholders' response to heat waves in Adelaide, South Australia: a qualitative study
Peng Bi (Australia), R van Iersel
- 17:45 - 18:00 S35.10 Adaptation to climate change in coastal zones: an analysis of the interventions to safeguard Venice and its lagoon
Stefania Munaretto (Italy)
- 18:00 - 18:30 Discussion

15:00 - 16:30 S58A

Hall B - Room F

**Session 58 -National and Regional Development of Mitigation
Policies Part I**

Chairs: Dr Katrine Krogh Andersen, Special Advisor, Ministry of Climate & Energy & Dr Andreas Barkman, Head of Group - Air and Climate Change Mitigation, European Environment Agency

- 15:00 - 15:15 **Invited Paper:** Title to be announced
Ogunlade Davidson (Sierra Leone)
- 15:15 - 15:30 S58.01 The economics of the new EU climate and energy package
Tom van Ierland (Belgium), K Ger
- 15:30 - 15:45 S58.02 CDM and solar energy in India: issues and concerns
Vagish Sharma (India), KC Das
- 15:45 - 16:00 S58.03 Reconciling energy insecurity and climate risks in China
Guodong Sun (USA)
- 16:00 - 16:15 S58.04 Reduced Emissions from Deforestation and Degradation (REDD) and decentralized forest management
Silvia Irawan (Australia), L Tacconi
- 16:15 - 16:30 S58.05 Mitigation potential and perspectives for Russian participation in a post-Kyoto agreement
Alexander Golub (USA), O Lugovoy

Tuesday, 10 March 2009

17:00 - 18:30 S58B

Hall B - Room H

Session 58 - National and Regional Development of Mitigation Policies Part II

- 17:00 - 17:15 **Invited Paper:** The road to Copenhagen. The UNFCCC negotiations
Thomas Becker (DK)
- 17:15 - 17:30 S58.06 A proposal that adds up to a global solution: Australia's Garnaut Climate Change Review
Frank Jotzo (Australia), R Garnaut, S Howes
- 17:30 - 17:45 S58.07 Keeping Government on Track: The UK Climate Change Act and the Committee on Climate Change
Jim Skea (UK), S Smith
- 17:45 - 18:00 S58.08 Comparing mitigation potentials and costs in Annex 1 countries in 2020
Markus Amann (Austria)
- 18:00 - 18:15 S58.09 International support for domestic climate policies: policy summary
Karsten Neuhoff (UK), W Gboney, K Grant, H Machado-Filho, A Singh, U Sreenivasamurthy, X Zhang, J Cust, I Iliev, S Lester, A Magen, Z Pato, M Sipple
- 18:15 - 18:30 S58.10 EU policies on climate change and energy: a critical view
Eirik S Amundsen (Denmark), Peter PB Sørensen
Discussion

15:00 - 16:30 S57A

Hall B - Room F

Session 57 - Cultures, Values & World Perspectives as Factors in Responding to Climate Change Part I

Chairs: Professor Karen O'Brien, University of Oslo & Professor Thomas Heyd, University of Victoria

- 15:00 - 15:05 Introduction
- 15:05 - 15:15 S57.01 Attitudes and responses to climate change: the intersection of worldviews and immediate concerns
Elizabeth L Malone (USA)
- 15:15 - 15:25 S57.02 Encouraging climate change engagement through affective connections
Saffron O'Neill (UK), L Whitmarsh
- 15:25 - 15:35 S57.03 Emotional reaction of children aged 9-14 years to climate change and how emotions are linked to action
Christian A Klöckner (Norway), A Beisenkamp, S Hallmann
- 15:35 - 15:45 S57.04 Harnessing universal motivators to enable a humanitarian response to climate change
Judith Ford (The Netherlands)
- 15:45 - 15:55 S57.05 Can the religions contribute to fight climate change?
Jakob Wolf (Denmark)
- 15:55 - 16:05 S57.06 Shedding a new kind of light: dealing with climate change by shifting our most fundamental perspective
Carien de Jonge (The Netherlands), JC Brezet
- 16:05 - 16:30 Discussion

17:00 - 18:30 S20A

Hall B - Room V

Session 20 - Enhancing Energy Conservation and Efficiency Part I

Chair: Professor Diana Ürge-Vorsatz, Central European University

- 17:00 - 17:25 S20.01 Global policy for dramatic reduction of energy consumption in buildings – Factor 3 is both possible and economic rational
Jens Laustsen (France)
- 17:25 - 17:50 S20.02 Energy efficiency in buildings: the road to a real market transformation
Christian Kornevall (Switzerland), C van Aerschot, B Sisson
- 17:50 - 18:10 S20.03 The factors of urban morphology in greenhouse gas emissions: a research overview
Michael Mehaffy (Norway)
- 18:10 - 18:30 S20.04 Energy efficiency the Gordian Knot of EU and global climate policy: a scenario-based policy analysis for the EU
Stefan Thomas (Germany), S Lechtenböhmer, R Schüle

Tuesday, 10 March 2009

17:00 - 18:30 S29A

Hall B - Room F

Session 29 - Climate Change and Water Systems Part I

Chairs: Professor Maria Carmen Lemos, University of Michigan & Professor Torkil Jøneh Clausen, DHI

- 17:00 - 17:05 Introduction by the Co-chairs
- 17:05 - 17:15 S29.01 Adaptation actions to reduce water system vulnerability to climate change in Tensift River basin (Morocco)
Mohammed Yacoubi Khebiza (Morocco), M Messouli, F Hammadi, B Ghallabi
- 17:15 - 17:25 S29.02 Climate change and water resources in Lebanon
Jalal Halwani (Lebanon)
- 17:25 - 17:35 S29.03 Assessing the impacts of climate change on the water resources in the Nile Basin using a regional climate model ensemble
Carlo Buontempo (UK), JK Lørup, MA Antar, M Sanderson, MB Butts, E Palin, R McCarthy, R Jones, R Betts
- 17:35 - 17:45 S29.04 Adaptive measures for coping with increased floods and droughts in Bangladesh
Karsten Havnø (Denmark), A Malmgren Hansen
- 17:45 - 17:55 S29.05 Impacts of climate variability and change on development and water security in Sub-Saharan Africa
Fulco Ludwig (The Netherlands), P Kabat, S Hagemann, M Dorlandt
- 17:55 - 18:05 S29.06 Cooperation and adaptation to climate change in transboundary river basins in Africa: evidence from the Nile Basin
Marisa Goulden (UK), D Conway
- 18:05 - 18:15 S29.07 Planning water resources development in the Western Cape of South Africa: how do coping with development pressure, climate variability, and climate change influence each other?
Daniël B Louw (South Africa), M Tadros, R Schulze, M Hellmuth, A Greene, J Callaway
- 18:15 - 18:30 Discussion

17:00 - 18:30 S38A

Hall B - Room M

Session 38 - Adapting Forests to Climate Change Part I

Chair: Professor Niels Elers Koch, University of Copenhagen

- 17:00 - 17:05 S38.01 Introduction: adapting forests to climate change
Niels Elers Koch (Denmark)
- 17:05 - 17:20 S38.02 A new climate for forests: a global assessment by the Expert Panel on adaptation of forests to climate change
Risto Seppälä (Finland)
- 17:20 - 17:35 S38.03 Adapting European forests to climate change: resource modelling under climate change at high resolution based on inventory data
Gert-Jan Nabuurs (The Netherlands), I Van den Wyngaert, G Hengeveld, MJ Schelhaas
- 17:35 - 17:50 S38.04 The Global Biodiversity Information Facility (GBIF): Infrastructure, standards, and access to data and tools to forecast climate change impacts on forest ecosystems
Andy Jarvis (Denmark), N King, S Gaiji
- 17:50 - 18:05 S38.05 Projecting forest fires in mountain forests under climate change
Patrick Weibel (Switzerland), B Reineking, H Bugmann
- 18:05 - 18:20 S38.06 Will the Danish forests stay adapted?
Erik Dahl Kjær (Denmark), JK Hansen, UB Nielsen, LN Hansen, DC Olrik
- 18:20 - 18:30 Discussion

15:00 - 16:30 Workshop: Creating Green Universities

Hall B - Room T

16:45 - 18:30 Workshop: Mitigation of climate change: filling the knowledge gaps revealed by the Fourth Assessment Report

Hall B - Room V

18:30 - 20:30 Reception

Wednesday, 11 March 2009

09:00 - 10:15

Plenary Hall - Auditorium A

Plenary Session

Chair: Professor Michael Grubb, University of Cambridge

Confirmed Speakers

Professor Nebjosa Nakicenovic, IIASA (The International Institute for Applied Systems Analysis) & Vienna University of Technology

Professor William D Nordhaus, Yale University

Professor Dan Kammen, University of California at Berkeley

10:15 - 10:45

Coffee Break

10:45 - 12:15 S01C

Hall B - Room D

Session 01 - Cryosphere, Instabilities, Sea Level Rise Part III

Chairs: Professor Dorthe Dahl-Jensen, University of Copenhagen & Professor Konrad Steffen, University of Colorado at Boulder

10:45 - 11:00 S01.13 Future East Greenland runoff acceleration

Sebastian H Mernild (UK)

11:00 - 11:15 S01.14 Arctic Sea ice change

Son Nghiem (USA), G Neumann

11:15 - 11:30 S01.15 Arctic warming, Greenland Melt and Moulins

Konrad Steffen (USA), A Behar

11:30 - 11:45 S01.16 The fate of permafrost in Greenland and Alaska: results from high-resolution transient climate simulations

Martin Stendel (USA), J Hesselbjerg Christensen, R Daanen, S Marchenko, V Romanovsky

11:45 - 12:30

Discussion

15:15 - 15:45

Coffee Break

13:45 - 15:15 S06C

Hall B - Room D

Session 06 - Tipping Elements in the Earth System Part III -

Land and Ecosystem Tipping Points

Chairs: Professor Matthew England, University of New South Wales & Professor Tim Lenton, University of East Anglia

13:45 - 14:15 S06.11 **Invited Paper:** Tipping points in the terrestrial biosphere

Peter Cox (UK)

14:15 - 14:30 S06.12 Is the Sahara a tipping element?

Martin Claussen (Germany), V Brovkin

14:30 - 14:45 S06.13 Risks for ecosystems - key findings from the Fourth Assessment Report of IPCC

Andreas Fischlin (Switzerland), GF Midgley

14:45 - 15:00 S06.14 Committed ecosystem change due to climate change

Chris Jones (UK), J Lowe, S Liddicoat, R Betts

15:00 - 15:15 S06.15 Avoiding and recovering from dangerous climate impacts

Jason Lowe (UK), L Gohar, C Huntingford, P Good, J Ridley, D McNeill, C Jones, S Liddicoat, M Parry, S Raper

15:15 - 15:45

Coffee Break

Wednesday, 11 March 2009

10:45 - 12:15 S11C

Plenary Hall - Auditorium A

Session 11 - Equity between Nations and Regions Part III

Chairs: Dr Timmons Roberts, The College of William and Mary and Oxford University & Professor Coleen Vogel, University of Witwatersrand

- 10:45 - 11:00 S11.13 The ethical dilemma of climate change: how unequal is the global distribution of responsibility for and vulnerability to climate change?
Hans-Martin Füssel (Germany)
- 11:00 - 11:15 S11.14 The clean development mechanism: striking a balance between environmental integrity, promoting sustainable development and economic efficiency
Christina Voigt (Norway)
- 11:15 - 11:30 S11.15 International trade and forest sequestration as components of fair climate policy
Glen Peters (Norway), G Marland, P Kauppi
- 11:30 - 11:45 S11.16 Distributional choices in EU climate change policy: in search of a legal framework
Javier de Cendra de Larragan (The Netherlands)
- 12:00 - 12:15 Discussion

12:15 - 13:45

Lunch Break

10:45 - 12:15 S16A

Hall B - Room Q

Session 16 - Integrating Economic Models and the Dynamics of the Carbon Sinks Part I

Chair: Dr Pep Canadell, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Marine and Atmospheric Research & Executive Director Global Carbon Project

- 10:45 - 11:05 S16.01 Integrated assessment modeling of land-use change and climate change impacts on terrestrial carbon stocks
Allison Thomson (USA), M Wise, K Calvin, L Clarke, R Sands, B Bond-Lamberty, S Smith, A Janetos, J Edmonds
- 11:05 - 11:25 S16.02 GHG mitigation through bioenergy production versus carbon sinks enhancement: a quantitative analysis
Petr Havlík (Austria), UA Schneider, E Schmid, H Böttcher, G Kindermann, S Leduc, M Obersteiner
- 11:25 - 11:45 S16.03 Hotspots for carbon offsets in agricultural landscapes: identifying threats, opportunities and policy responses to widespread reforestation
Neville Crossman (Australia), P Butler, D Summers, B Bryan, J Ward
- 11:45 - 12:05 S16.04 Implications of carbon price dynamics and eligibility of mitigation options for U.S. Forestry and Agriculture Carbon Sinks
Adam Daigneault (USA), R Beach, B McCarl, D Adams, R Alig, G Latta
- 12:05 - 12:15 Discussion

12:15 - 13:45

Lunch Break

13:45 - 15:15 S16B

Hall B - Room Q

Session 16 - Integrating Economic Models and the Dynamics of the Carbon Sinks Part II

- 13:45 - 14:05 S16.05 Optimal forest management for carbon sequestration: a case study in Yen Bai province, Vietnam
Thi Hong Nhung Nghiem (New Zealand)
- 14:05 - 14:25 S16.06 Carbon cycle uncertainty and CO₂ mitigation cost
Atsushi Kurosawa (Japan)
- 14:25 - 14:45 S16.07 Precautionary feedback policy rules in MUICE - an integrated climate-economy differential game with climate model uncertainty
Magnus Hennlock (Sweden)
- 15:45 - 15:15 Discussion

15:15 - 15:45

Coffee Break

Wednesday, 11 March 2009

10:45 - 12:15 S17B

Hall B - Room M

**Session 17 - Carbon Capture and Storage: Technology, Economy,
Social Attitudes Part II**

Chair: Professor Wim C Turkenburg, Director Copernicus Institute, Utrecht University

- 10:45 - 11:05 S17.06 Geological storage of carbon dioxide: current status
Peter J Cook (Australia), SM Benson
- 11:05 - 11:25 S17.07 Estimates of CO2 storage capacity in Europe
Karen Lyng Anthonsen (Denmark), T Vangkilde-Pedersen, LH Nielsen
- 11:25 - 11:45 S17.08 Understanding the impact of the level of characterization on long-term performance predictions at geologic CO2 sequestration sites
Grant Bromhal (USA), B Harbert, B McPherson, M Deo, P Stauffer, W Carey, B Strazisar, B Kutchko, H Viswanathan, D Wildman, R Pawar, G Guthrie
- 11:45 - 12:05 S17.09 CO2 fixation by mineral matter; the potential of different mineralization routes
Ron Zevenhov (Finland), J Fagerlund
- 12:05 - 12:15 Discussion

12:15 - 13:45 Lunch Break

13:45 - 15:15 S17C

Hall B - Room M

**Session 17 - Carbon Capture and Storage: Technology, Economy,
Social Attitudes Part III**

- 13:45 - 14:05 S17.10 Development of a large scale CO2 infrastructure. The case of the Netherlands
Andrea Ramirez Ramirez (The Netherlands), M van den Broel, H Groenenberg, F Neele, P Lako
- 14:05 - 14:25 S17.11 Scaling-up Carbon Dioxide Capture and Storage (CCS) - from megatonnes to gigatonnes
Howard Herzog (USA)
- 14:25 - 14:45 S17.12 Recent developments in public attitudes and acceptance of CCS: an overview of research activities and results in recent years
Peta Ashworth (Australia), S Wade, D Reiner, D Daamen, K Itaoka
- 14:45 - 15:05 S17.13 Short-term and long-term policies to promote CCS technologies
David Reiner (UK)
- 15:05 - 15:15 Discussion

15:15 - 15:45 Coffee Break

10:45 - 12:25 S18A

Hall B - Room Y

Session 18 - Potentials and Limitations of Biofuels Part I

Chairs: Professor Claus Felby, University of Copenhagen & Science Manager Anders Viksø-Nielsen, Novozymes Biofuels R & D

- 10:45 - 11:25 S18.01 Biomass for biofuels - the challenge and a possible way forward
Claus Felby (Denmark), JR Porter, SK Rasmussen, JK Schjørring, T Hamborg Nielsen, Y Sakuragi, WGT Willats
- 11:25 - 11:45 S18.02 Nutrient and energy potential for sustainable biorefineries based on wastes of agrifood systems: two regional cases
Helena Kahiluoto (Finland), M Kuisma, P Karttunen, M Horttanainen, J Grönroos, RP Rötter, M Virtanen
- 11:45 - 12:05 S18.03 Sustainability standards for bioenergy - a means to reduce climate change risks
Renate Schubert (Switzerland), J Blasch
- 12:05 - 12:25 S18.04 World biofuels production study: understanding the challenges in meeting the new u.s. renewable fuel standard
Audrey Lee (USA), B Sastri, C Difiglio, T Kaarsberg, T Alfstad
- 12:25 - 12:30 Discussion

12:15 - 13:45 Lunch Break

Wednesday, 11 March 2009

13:45 - 15:15 S18B

Hall B - Room Y

Session 18 - Potentials and Limitations of Biofuels Part II

- 13:45 - 14:05 S18.05 Can biofuels justify current transport policies?
Jérémie Mercier (UK), A Gathorne-Hardy, Z Makuch
- 14:05 - 14:25 S18.06 Biotechnology enabling commercial biofuel production
Nina Eriksen (Denmark), S Teter, P Harris, KC McFarland, E Vlasenko
- 14:25 - 14:45 S18.07 The development of plants as environmentally benign green factories merging into synthetic biology
Birger Lindberg Møller (Denmark), PE Jensen, P Ulvskov
- 14:45 - 15:05 S18.08 Development of local fuel system for sustainable regional biomass utilization
Yasuo Igarashi (Japan), K Mochidzuki, M Takayama, A Sakoda
- 15:05 - 15:15 Discussion

15:15 - 15:45

Coffee Break

10:45 - 12:15 S19A

Hall B - Room X

Session 19 - Renewable Energies: How Far Can They Take Us? Part I

Chairs: Director Henrik Bindlev, Risø National Laboratory for Sustainable Energy, Technical University of Denmark & Professor Jim Skea, Research Director, UK Energy Research Centre

- 10:45 - 10:48 Opening remarks
- 10:48 - 11:03 S19.01 Wind – the challenge (from a European perspective)
Erik Lundtang Petersen (Denmark)
- 11:06 - 11:21 S19.02 Future wind energy technology and CO2 perspectives
Poul Erik Morthorst (Denmark), JK Lemming, N-E Clausen
- 11:24 - 11:39 S19.03 Beyond feasibility: linking the Mediterranean region's renewable energy resources to Europe - a roadmap for addressing the policy challenges
Anthony Patt (Austria), A Battaglini, N Komendantova, M Milkoreit, J Lilliestam
- 11:42 - 11:57 S19.04 Global market penetration of new renewable energy technologies -assessing future growth rates and energy impacts
Peter Lund (Finland)
- 12:00 - 12:15 Discussion

12:15 - 13:45

Lunch Break

13:45 - 15:15 S19B

Hall B - Room X

Session 19 - Renewable Energies: How Far Can They Take Us? Part II

- 13:45 - 13:48 Opening remarks
- 13:48 - 14:03 S19.05 Properties and suitability of liquid fuels derived from microalgae
Anthony Marchese (USA)
- 14:06 - 14:21 S19.06 Good or bad bioenergy? The validity of comparing biomass and biofuels using life cycle assessment
Jeanette Whitaker (UK), K Ludley, S Ryder, R Rowe, J Chapman, G Taylor, D Howard
- 14:24 - 14:39 S19.07 Polymer solar cells for solar energy conversion
Frederik Christian Krebs (Denmark)
- 14:42 - 14:57 S19.08 Producing renewable energy in urban spaces
Dongbin Huang, (Switzerland), DD Genske, L Porsche, A Ruff
- 15:00 - 15:15 Discussion

15:15 - 15:45

Coffee Break

Wednesday, 11 March 2009

10:45 - 12:15 S20B

Hall B - Room E

Session 20 - Enhancing Energy Conservation and Efficiency Part II

Chair: Professor Diana Ürge-Vorsatz, Central European University

- 10:45 - 11:05 S20.05 Reducing greenhouse gas emissions from the building sector under the Kyoto Protocol. Challenges and opportunities
Stephane Pouffary (France), CC Cheng, N Svenningsen
- 11:05 - 11:25 S20.06 Promoting energy efficiency through carbon finance: Green Investment Schemes
Diana Ürge-Vorsatz (Hungary)
- 11:25 - 11:45 S20.07 Energy efficiency and development finance: lessons learned for future approaches
Jochen Harnisch (Germany)
- 11:45 - 12:00 S20.08 Methodological challenges for energy efficiency improvement under the Clean Development Mechanism
Daisuke Hayashi, (Switzerland), A Michaelowa
- 12:00 - 12:15 S20.09 Success and failures of energy efficiency funds and obligations. What five European systems have achieved, and what can be learnt from them – a criteria-based policy analysis
Stefan Thomas (Germany)

12:15 - 13:45

Lunch Break

13:45 - 15:15 S20C

Hall B - Room E

Session 20 - Enhancing Energy Conservation and Efficiency Part III

- 13:45 - 14:00 S20.10 Energy efficiency in transport sector for mitigating climate change
Suzana Ribeiro (Brazil), A Abreu
- 14:00 - 14:15 S20.11 Energy efficiency to meet global goal - need for re packaging to induce national and transnational actions
Joyashree Roy (India)
- 14:15 - 14:30 S20.12 The macroeconomic rebound effect from the implementation of energy efficiency policies at different end-use sectors at global level
Athanasios Dagoumas (UK), T Barker
- 14:30 - 14:45 S20.13 The potential contribution from urban planning to reduce carbon-emissions from transportation
Thomas Sick Nielsen (Denmark), P Næss, HH Johannsen
- 14:45 - 14:55 S20.14 Progress on energy efficiency in Europe and related environmental benefits
Anca-Diana Barbu (Denmark)
- 14:55 - 15:15 S20.15 Energy efficiency policies : a world-wide panorama by the World Energy Council
Didier Bosseboeuf (France)

15:15 - 15:45

Coffee Break

Wednesday, 11 March 2009

10:45 - 12:15 S21A

Hall B - Room G

Session 21 - Integrated Energy Mixes from a Socio-Economic and Environmental Perspective Part I

Chair: Professor Jiahua Pan, Chinese Academy of Social Sciences

- 10:45 - 14:55 S21.01 Enhance the economic performance of renewable energies from the perspective of incentive development
Weifeng Li (Australia), D Prasad
- 14:55 - 11:05 S21.02 Low-cost carbon-neutral due to CO2 extraction application
Steve Clemens (Belgium)
- 11:05 - 11:15 S21.03 The impact of China and India's economic growth on energy use and CO2 emissions - integrated modelling of economic-energy-environment scenarios
Céline Guivarch (France), F Roques, O Sassi, J-C Hourcade, H Waisman, R Crassous
- 11:15 - 11:25 S21.04 The trajectories of new energy technologies in carbon constraint cases with the POLES world energy model
Patrick Criqui (France), P Menanteau, S Mima
- 11:25 - 11:35 S21.05 A policy appraisal of the EU policy mix: Abatement and innovation
Gunnar Eskeland (Norway), K Linnerud
- 11:35 - 11:45 S21.06 Integration and compatibility of economic instruments in energy and climate policies
Eirik S Amundsen (Denmark), P Fristrup, JB Mortensen
- 11:45 - 11:55 S21.07 GHG emissions and development: what if developing countries baselines were not so optimal?
Sandrine Mathy (France), C Guivarch
- 11:55 - 12:15 Discussion

12:15 - 13:45

Lunch Break

13:45 - 15:15 S21B

Hall B - Room G

Session 21 - Integrated Energy Mixes from a Socio-Economic and Environmental Perspective Part II

- 13:45 - 13:55 S21.08 Economic optimization of the Danish energy systems through minimization of direct costs as well as indirect costs related to air born pollution
Eigil Kaas (Denmark), A Baklanov, J Brandt, H Brønnum-Hansen, JH Christensen, A Groos, K Karlsson, M-L Siggaard-Andersen, T Sigsgaard, J Sørensen
- 13:55 - 14:05 S21.09 Low carbon city development of China
Dongmei Chen (PR China)
- 14:05 - 14:15 S21.10 A numerical simulation study on national/regional per capita historical contribution to climate change
Guoquan Hu (PR China)
- 14:15 - 14:25 S21.11 Policy options for reducing GHG emissions
Maolin Liao (PR China)
- 14:25 - 14:35 S21.12 Two logics of climate change games: environmental governance and know-how competition
Hongyuan Yu (PR China)
- 14:35 - 14:45 S21.13 Socio-economic development and carbon emissions
Yan Zheng (PR China)
- 14:45 - 15:15 Discussion

15:15 - 15:45

Coffee Break

Wednesday, 11 March 2009

10:45 - 12:15 S22A

Hall B - Room H

Session 22 - Transforming Institutions to Managing a Carbon Constrained World Part I

Chair: Professor Joyeeta Gupta, Vrije Universiteit, Amsterdam

- 10:45 - 11:00 S22.01 Transforming institutions that do not exist - the (im-)possible task for global energy governance?
Sylvia I Karlsson (Finland)
- 11:00 - 11:15 S22.02 The efficiency of simplicity - a comprehensive evolutionary perception of the earth can help to improve the management of subsystems
Andreas Klaey (Switzerland), C Ott
- 11:15 - 11:30 S22.03 Incentives for the adoption of carbon free technologies
Carlo Cararo (Italy)
- 11:30 - 11:45 S22.04 Technology and market factors impacting value creation and capture in the commercialisation of sustainable energy technologies by new ventures
Nicola Dee (UK)
- 11:45 - 12:00 S22.05 The role of institutional capacity development in making the CDM operational in developing countries
Karen Holm Olsen (Denmark), M Hinostrroza
- 12:00 - 12:15 Discussion

12:15 - 13:45

Lunch Break

13:45 - 15:15 S22B

Hall B - Room H

Session 22 - Transforming Institutions to Managing a Carbon Constrained World Part II

- 13:45 - 14:00 S22.06 The Kyoto Protocol and the carbon agenda in Uganda: implementing mechanisms and stakeholder perceptions in Kampala City
Paul Isolo Mukwaya (Uganda), H Sengendo, C Basalirwa, T Otiti
- 14:00 - 14:15 S22.07 Internal trading as a strategy for carbon mitigation
Harsh Dhand (UK), S Doll, N Sethi, K Chaugul
- 14:15 - 14:30 S22.08 From burden- to effort-sharing: negotiating emission reduction targets in the European Union
Constanze Haug (The Netherlands)
- 14:30 - 14:45 S22.09 Participatory policy formation to address climate change
Eleftheria Vasileiadou (the Netherlands), A Gandhi
- 14:45 - 15:00 S22.10 Copenhagen Plus: Complementing output oriented climate policy by input oriented approaches
Stefan Lechtenböhmer (Germany), H-J Luhmann
- 15:00 - 15:15 Discussion

15:15 - 15:45

Coffee Break

10:45 - 12:15 S23A

Hall B - Room I

Session 23 - Integrating National and International Approaches to Carbon Pricing Policies: Developing a Global Framework Part I

Chair: Professor Warwick McKibbin, Australian National University

- 10:45 - 11:05 S23.01 The cost-effectiveness of climate policy: beyond emissions trading
Barbara Buchner (France), R Baron
- 11:05 - 11:25 S23.02 Expecting the unexpected: macroeconomic volatility and climate policy
Peter Wilcoxon (USA), W McKibbin, A Morris
- 11:25 - 11:40 S23.03 A more comprehensive approach to an international treaty on greenhouse gas emissions: biofuels, land-use and developing country participation
James Randall Kahn (USA), AAF Rivas
- 11:40 - 11:55 S23.04 Considering price caps for climate policy
Cédric Philibert (France)
- 11:55 - 12:15 Discussion

12:15 - 13:45

Lunch Break

Wednesday, 11 March 2009

13:45 - 15:15 S23B

Hall B - Room I

Session 23 - Integrating National and International Approaches to Carbon Pricing Policies: Developing a Global Framework Part II

- 13:45 - 14:00 S23.05 Global trading versus linking: architectures for international emissions trading
Christian Flachsland (Germany), R Marschinski, O Edenhofer
- 14:00 - 14:15 S23.06 Is there a role for energy production cut backs in global warming climate policy?
Lars Gårn Hansen (Denmark), N Nannerup
- 14:15 - 14:30 S23.07 Measuring emissions against an alternative future: a fundamental flaw in the structure of the CDM
Barbara Haya (USA)
- 14:30 - 14:45 S23.08 Uses and misuses of the notion of a unique world carbon price
Renaud Crassous-Doerfler (France), J-C Hourcade, PR Shukla, O Sassi
- 14:45 - 15:00 S23.09 Enlarging the scope of the European emissions trading scheme: implications for the international carbon market
Cate Hight (France), M Hervé-Mignucci, B Leguet
- 15:00 - 15:15 Discussion

15:15 - 15:45

Coffee Break

10:45 - 12:15 S24A

Hall B - Room N

Session 24 - The Role of Agriculture in Mitigating Climate Change Part I

Chairs: Professor Pete Smith, University of Aberdeen & Professor Jørgen E Olesen, University of Aarhus

- 10:45 - 11:15 S24.01 Global greenhouse gas mitigation potential in agriculture
Pete Smith (UK)
- 11:15 - 11:35 S24.02 Marginal abatement cost curves for UK agriculture, forestry, land-use and land-use change sector out to 2022
Dominic Moran (UK), M Macleod, E Wall, V Eory, A Mcvittie, A Barnes, B Rees, G Pajot, R Matthews, P Smith, A Moxey
- 11:35 - 11:55 S24.03 Modeling marginal biophysical responses to assess cropland greenhouse gas abatement potential
Steven Rose (USA), R Beach, C Li, W Salas, A Daigneault
- 11:55 - 12:15 S24.04 Modeling alternative policies for forestry and agricultural GHG mitigation: allowances vs. offsets
Robert Beach (USA), A Daigneault, B McCarl, B Murray

12:15 - 13:45

Lunch Break

13:45 - 15:15 S24B

Hall B - Room N

Session 24 - The Role of Agriculture in Mitigating Climate Change Part II

- 13:45 - 14:15 S24.05 Measures to promote both mitigation and adaptation to climate change in agriculture
Jørgen E Olesen (Denmark)
- 14:15 - 14:35 S24.06 A practical carbon estimation application tool for the (USA) agricultural end user
Carolyn Olson (USA), K Paustian, S Ogle, RConant, M Easter, K Killian, A Swan, J Alvero-Fuentes, J Schuler, G Johnson, R Vining, M Merwin
- 14:35 - 14:55 S24.07 The net-benefit of bioenergy for climate change mitigation
Alexander Popp (Germany), H Lotze-Campen
- 14:55 - 15:15 S24.08 Increasing efficiency of land use and phytomass conversion to mitigate climate change until 2050
Arthur Riedacker (France)

15:15 - 15:45

Coffee Break

Wednesday, 11 March 2009

10:45 - 12:15 S25A

Hall B - Room O

Session 25 - The Role of Forests in Mitigation Climate Change Part I

Chair: Director General Frances Seymour, Center for International Forestry Research (CIFOR)

- 10:45 - 10:50 Introduction
- 10:50 - 11:02 S25.01 Collaborative modeling initiative on REDD economics
Jonah Busch (USA), B Strassburg, A Cattaneo, R Lubowski, F Boltz, R Ashton, A Bruner, A Creed, M Obersteiner, R Rice
- 11:02 - 11:14 S25.02 How to reduce the headache of REDD reference lines
Arild Angelsen (Norway)
- 11:14 - 11:26 S25.03 Overcoming the livelihood risks associated with REDD: options for policymakers
Kathleen Lawlor (USA), E Weinthal
- 11:26 - 11:38 S25.04 REDD architecture: facing critical choices
Alain Karsenty (France)
- 11:38 - 12:15 Discussion

12:15 - 13:45

Lunch Break

13:45 - 15:15 S25B

Hall B - Room O

Session 25 - The Role of Forests in Mitigation Climate Change Part II

- 13:45 - 13:50 Introduction
- 13:50 - 14:05 S25.05 Lessons learned from past influences on deforestation: effectiveness, efficiency, equity and REDD relevance
Alexander Pfaff (USA), G Amacher, L Curran, K Lawlor, E Sills, C Streck
- 14:05 - 14:15 S25.06 Carrots versus sticks: scoping alternative avoided deforestation strategies in the Brazilian Amazon
Sven Wunder (Brazil), J Boerner
- 14:15 - 14:25 S25.07 Challenges and opportunities in implementing REDD at the national level: the case of Ghana
Thorsten Treue (Denmark), CP Hansen, JF Lund
- 14:25 - 14:35 S25.08 Carbon stock in smallholder chocolate forest in southern Cameroon and potential role in climate change mitigation
Denis J Sonwa (Cameroon), SF Weise, BA Nkongmeneck, M Tchatat, MJJ Janssens
- 14:35 - 14:45 S25.09 REDD mountain perspective and opportunities for community-based forest management in the Hindu Kush Himalaya Region
Robert Zomer (Nepal), K Banskota, BS Karky
- 14:45 - 15:15 Discussion

15:15 - 15:45

Coffee Break

10:45 - 12:25 S26A

Hall B - Room R

Session 26 - Beyond Technology: Changing the Way We Live? Part I

Chair: Professor Mike Hulme, School of Environmental Sciences, University of East Anglia

- 10:45 - 11:05 S26.01 The '5-D Staged-Approach' to climate-oriented cognitive and behavioral change
Bob Doppelt (USA)
- 11:05 - 11:25 S26.02 Critical issues in the psychology of behaviour change for climate change
David Uzzell (UK)
- 11:25 - 11:45 S26.03 Sufficiency – does energy consumption become a moral issue?
Adrian Muller (Switzerland)
- 11:45 - 12:05 S26.04 Energymark: changing Australians' behaviours through kitchen table discussions
Peta Ashworth (Australia), A-M Dowd
- 12:05 - 12:25 S26.05 Lifestyle approach to climate mitigation: cross country empirical evidence
Joyashree Roy (India), S Pal

12:15 - 13:45

Lunch Break

Wednesday, 11 March 2009

13:45 - 15:15 S26B

Hall B - Room R

Session 26 - Beyond Technology: Changing the Way We Live? Part II

- 13:45 - 14:05 S26.06 For better understanding people's understandings of climate change issues and motivation for taking actions: Japanese case
Midori Aoyagi-Usui (Japan), Y Sampei
- 14:05 - 14:25 S26.07 Climate risk perceptions and local experiences of the 2007 summer flooding: opportunities or obstacles to change?
Nicholas Pidgeon (UK), C Butler
- 14:25 - 14:45 S26.08 Climate benefits of changing diet
Elke Stehfest (The Netherlands), L Bouwman, D van Vuuren, M den Elzen, B Eickhout, P Kabat
- 14:45 - 15:15 Discussion

15:15 - 15:45

Coffee Break

10:45 - 12:15 S27A

Hall B - Room S

Session 27 - Low Carbon Science, Technology Policies Part I

Chair: Professor Dan Kammen, University of California at Berkeley

- 10:45 - 11:10 S27.01 Low stabilization pathways: economic and technical feasibility
Brigitte Knopf (Germany), O Edenhofer, T Barker, L Baumstark, A Kitous, S Kypreos, M Leimbach, B Magne, S Scrieciu, H Turton
- 11:10 - 11:35 S27.02 Considering technology within the UN climate change negotiations
Karsten Neuhoff (UK), M Bazilia, H de Coninck, M Radka, S Nakhooda, W Boyd, I MacGill, A-L Amin, F von Malmborg, J Uosukainen, R Bradley, R Bradley
- 11:35 - 12:00 S27.03 A finance architecture for technology development and transfer
Heleen de Coninck (The Netherlands), A Higham, E Haites
- 12:00 - 12:15 Discussion

12:15 - 13:45

Lunch Break

13:45 - 15:15 S27B

Hall B - Room S

Session 27 - Low Carbon Science, Technology Policies Part II

- 13:45 - 14:10 S27.04 Top-down technological modelling of stabilisation pathways: UKERC scenarios for the UK to 2050 using E3MG-UK
Athanasios Dagoumas (UK), T Barker, S Scrieciu, S Stretton
- 14:10 - 14:35 S27.05 Corporate climate technology strategies in response to international market-based climate policies - the case of the power sector
Karoline Rogge (Germany), M Schneider, V Hoffmann, T Schmidt
- 14:35 - 15:00 S27.06 Energy and carbon emissions scenarios of China towards 2100
Tao Wang (UK), J Watson
- 15:00 - 15:15 Discussion

15:15 - 15:45

Coffee Break

Wednesday, 11 March 2009

10:45 - 12:15 S28A

Hall B - Room J

Session 28 - Climate Change and Air Pollution: The Role of non-CO2 Atmospheric Pollutants (CH4, Halocarbons, N3), Ozone, Aerosols) in Climate Stabilization Part I

Chairs: Dr James E Hansen, NASA Goddard Institute for Space Studies & Professor Ole John Nielsen, University of Copenhagen

- 10:45 - 11:05 S28.01 Global climate policy scenarios: the benefits and trade-offs for air pollution
John Van Aardenne (Italy), F Dentener, R Van Dingenen, E Marmer, E Vignati, P Russ, L Szabo
- 11:05 - 11:25 S28.02 Ground level ozone in the 21st century: trends, climate interactions and impacts - a report from The Royal Society
David Fowler (UK), R Garthwaite, D Stevenson, P Cox, M Ashmore, P Grennfelt, M Amann, R Anderson, M Depledge, D Derwent, N Hewitt, O Hov, M Jenkin, F Kelly, P Liss, M Pilling, J Pyle, J Slingso
- 11:25 - 11:45 S28.03 Natural variations of methane and nitrous oxide from ice cores
Thomas Blunier (Denmark), A Schilt, L Loulergue, J-M Barnola, M Bock, J Chappellaz, H Fischer, B Lemieux, V Masson-Delmotte, D Raynaud, R Spahni, TF Stocker
- 11:45 - 12:15 Discussion

12:15 - 13:45

Lunch Break

13:45 - 15:15 S28B

Hall B - Room J

Session 28 - Climate Change and Air Pollution: The Role of non-CO2 Atmospheric Pollutants (CH4, Halocarbons, N3), Ozone, Aerosols) in Climate Stabilization Part II

- 13:45 - 14:05 S28.04 Long-term trends in atmospheric elemental carbon (~1800 to 2005): measurements and comparison with models
Liaquat Husain (USA) Cancelled Presentation
- 14:05 - 14:25 S28.05 Achieving agreement and climate protection by mitigation of short- and long-lived greenhouse gases
Michael MacCracken (USA)
- 14:25 - 15:15 Discussion after Introduction by *James Hansen, (USA)*

15:15 - 15:45

Coffee Break

10:45 - 12:15 S40A

Hall B - Room K2

Session 40 - Learning From Ongoing Adaptation: A Comparative Study Part I

Chair: Mr James Pittock, WWF Research Associate, Australian National University

- 10:40 - 10:45 Introduction
James Pittock (Australia)
- 10:45 - 11:00 S40.01 Floodplain restoration along the Lower Danube: a climate change adaptation case study
Irene Lucius (Austria), O Hulea, S Ebert, D Strobel
- 11:00 - 11:15 S40.02 Freshwater conservation and climate change adaptation – a case study of the Great Ruaha River Catchment in Tanzania
Japhet Kashaigili (Tanzania), K Rajabu, P Masolwa
- 11:15 - 11:30 S40.03 Adaptation to climate change in the Central Yangtze River Basin, China
Li Lifeng (PR China), L Wang, X Yu, G Lei, L Jiang
- 11:30 - 11:45 S40.04 Recovery with social participation - the experience of Lagos São João consortium, RJ, Brazil
Luiz Firmino Pereira (Brazil), S Barreto
- 11:45 - 12:00 S40.05 Water for life: the Rio Conchos (Mexico) lessons for climate change adaptation from better management of rivers for people/nature
Eugenio Barrios (Mexico), A Rodriguez, M de la Maza, V Trueba
- 12:00 - 12:15 S40.06 Variability of daily discharges of Godavari River due to climate change in coming decades and its implications to infrastructure and people
Biksham Gujja (India), S Dalai

12:15 - 13:45

Lunch Break

Wednesday, 11 March 2009

13:45 - 15:15 S40B

Hall B – K2

Session 40 - Learning From Ongoing Adaptation: A Comparative Study Part II

- 13:45 - 14:00 S40.07 Lessons for climate change adaptation from river management reforms
Jamie Pittock (Australia)
- 14:00 - 14:15 S40.08 Looking forward: building a freshwater climate adaptation program
John Matthews (USA)
- 14:15 - 14:30 S40.09 From risk to resilience: exploring the links between adaptation concepts and practice in India, Nepal and Pakistan
Marcus Moench (USA), A Dixit
- 14:30 - 14:45 S40.10 Perspectives on vulnerability and adaptation from the developing world: lessons learned from the AIACC project
Jon Padgham (USA), H Virji
- 14:45 - 15:15 Discussion – “What are the common policy lessons for better adaptation from these organizations’ research?”
Comments: **Karen Hussey**, Australian National University
Audience discussion

15:15 - 15:45

Coffee Break

10:45 - 12:15 S44A

Hall B - Room P

Session 44 - Filling In The Gaps Between IA, GCM, Economic and ES Models Part I

Chair: Dr Rik Leemans, Wageningen University

- 10:45 - 10:55 Introduction
- 10:55 - 11:10 S44.01 The ESSP strategy to develop integrated earth system models to comprehensively assess global change problems with input from social and natural science disciplines
Rik Leemans (The Netherlands), M Rice
- 11:10 - 11:25 S44.02 Socio-climatic analysis, modeling, and prediction
Noah Diffenbaugh (USA)
- 11:25 - 11:40 S44.03 Linking climate, economy and ecosystem models
Markku Rummukainen (Sweden), C Jones, T Persson, B Smith, R Klein
- 11:40 - 11:55 S44.04 Incorporating the human dimensions of water resources in earth system models
Joseph Alcamo (Germany)
- 11:55 - 12:15 Discussion

12:15 - 13:45

Lunch Break

13:45 - 15:15 S44B

Hall B - Room P

Session 44 - Filling In The Gaps Between IA, GCM, Economic and ES Models Part II

- 13:45 - 14:05 S44.05 Modeling impacts of global change on terrestrial biodiversity, The GLOBIO3 framework
Rob Alkemade (The Netherlands), M Bakkenes, M van Oorschot
- 14:05 - 14:20 S44.06 Regional scale habitat-based vulnerability assessment of the natural ecosystems
Bálint Czúcz (Hungary), G Kröel-Dulay, G Torda, Z Molnár, L Tökei
- 14:20 - 14:35 S44.07 A conceptual model for assessing the geography of social vulnerability, environmental hazards and climate change
Haakon Lein (Norway), I Berthling, C Brun, JK Rød, G Vatne
- 14:35 - 14:50 S44.08 Running policy-relevant Integrated Assessment Models scenarios in Earth System Models
Detlef P van Vuuren (The Netherlands), J Feddema, S Frolking, K Hibbard, G Hurtt, J-F Lamarque, L Parsons Chini, K Riahi, S Rose, S Smith, E Stehfest
- 14:50 - 15:15 Discussion

15:15 - 15:45

Coffee Break

Wednesday, 11 March 2009

10:45 - 12:15 S45A

Hall B - Room L

Session 45 - From Geo-Perturbation to Geo-Management Part I

Chair: Professor Ken Caldeira, Stanford University

- 10:45 - 11:00 S45.01 Climate engineering: solution, curse, or chimera?
Ken Caldeira (USA)
- 11:00 - 11:15 S45.02 Climate engineering as risk management
David Keith (Canada)
- 11:15 - 11:30 S45.03 Impact intervention: regional geo-engineering as a complementary step to aggressive mitigation
Michael MacCracken (USA)
- 11:30 - 11:45 S45.04 Earth system engineering: the art of dealing wisely with the planet Earth
Axel Kleidon (Germany), P Wilderer, R Weiler
- 11:45 - 12:00 S45.05 Is geo-management a defensible response to climate change? An NGO perspective
David Santillo (UK)
- 12:00 - 12:15 S45.06 Geoengineering: too good to be true?
Thomas C Schelling (USA)

12:15 - 13:45

Lunch Break

13:45 - 15:15 S45B

Hall B - Room L

Session 45 - From Geo-Perturbation to Geo-Management Part II

- 13:45 - 13:55 S45.07 Progress on engineering hardware design for spray vessels for implementing Latham's proposals for cloud albedo control to reverse global warming
Stephen Salter (UK)
- 13:55 - 14:05 S45.08 Evaluating effects of climate stratospheric geoengineering on the hydrological cycle, ocean heat content, sea level, and sea ice extent
Georgiy Stenchikov (USA), V Ramaswamy, T Delworth, R Stouffer
- 14:05 - 14:15 S45.09 Can geoengineering save the Greenland ice sheet?
Daniel Lunt (UK), J Singarayer, A Ridgwell
- 14:15 - 14:25 S45.10 Tackling future climate change by leaf albedo bio-geoengineering
Andrew Ridgwell (UK), J Singarayer, AL Hetherington, P Valdes
- 14:25 - 14:35 S45.11 Sensitivity of ocean acidification to geoengineered climate stabilization
Damon Matthews (Canada), K Caldeira, L Cao
- 14:35 - 14:45 S45.12 Exploration of planetary geoengineering by seeding of boundary layer cloud systems in fully coupled climate system models
Philip John Rasch (USA), J Latham, J Chen
- 14:45 - 14:55 S45.13 Carbon storage in the ocean; an ECOR review
Ian SF Jones (Australia)
- 14:55 - 15:05 S45.14 Burying wood as a climate management strategy
Ning Zeng (PR China)
- 15:05 - 15:15 S45.15 Climate engineering responses to climate emergencies
Jason J Blackstock (Austria), D Battisti, K Caldeira, DE Eardley, JI Katz, DW Keith, SE Koonin, AAN Patrinos, DP Schrag, RH Socolow

15:15 - 15:45

Coffee Break

Wednesday, 11 March 2009

10:45 - 12:30 S46A

Hall B - Room T

Session 46 - Consequences of Acidification of Land and Ocean Part I - Aspects of Ocean Acidification

Chairs: Professor Mary Scholes, University of Witwatersrand & Dr Carol Turley, Plymouth Marine Laboratory

- 10:45 - 10:55 Introduction
Carol Turley (UK)
- 10:55 - 11:05 S46.01 Ocean acidification impacts on southern ocean calcifiers
William Howard (Australia), *D Roberts, A Moy, J Roberts, T Trull, S Bray, R Hopcroft*
- 11:05 - 11:15 S46.02 Southern ocean acidification: a tipping point at 450ppm atmospheric CO₂
Ben McNeil (Australia), *R Matear*
- 11:15 - 11:25 S46.03 Detecting early signs of global-scale effects of ocean acidification on marine calcification
Tatjana Ilyina (USA), *R Zeebe, E Maier-Reimer, C Heinze*
- 11:25 - 11:35 S46.04 Ocean acidification: humanity and the environment in geologic time
Ken Caldeira (USA)
- 11:35 - 11:45 S46.05 North Atlantic Ocean acidification from time series measurements
Jon Olafsson (Iceland), *SR Olafsdottir, A Benoit-Cattin, M Danielsen, T Takahashi*
- 11:45 - 11:55 S46.06 Impact of CO₂-driven ocean acidification on early life-history – what we know and what we need to know
Sam Dupont (Sweden), *J Havenhand, M Thorndyke*
- 11:55 - 12:05 S46.07 Changes in underwater sound propagation caused by ocean acidification
Tatjana Ilyina (USA), *R Zeebe, P Brewer*
- 12:05 - 12:15 S46.08 The low CO₂ glacial ocean as a reverse paleo-analog for the future high CO₂ ocean
Christoph Heinze (Norway)
- 12:15 - 12:25 S46.09 Amplified acidification of the Arctic Ocean
James C Orr (Monacco), *S Jutterström, L Bopp, LG Anderson, P Cadule, VJ Fabry, T Frölicher, EP Jones, F Joos, A Lenton, E Maier-Reimer, J Segschneider, M Steinacher, D Swingedouw*
- 12:25 - 12:30 Discussion

12:15 - 13:45

Lunch Break

13:45 - 15:15 S46B

Hall B - Room T

Session 46 - Consequences of Acidification of Land and Ocean Part II - Aspects of Land Acidification

- 13:45 - 13:55 Introduction
Mary Scholes (South Africa)
- 13:55 - 14:05 S46.10 Acidification in South America as a result of biomass burning emissions
Paulo Artaxo (Brazil)
- 14:05 - 14:15 S46.11 A global perspective on soil acidification in terrestrial ecosystems
Kevin Hicks (UK), *J Kuylenstierna*
- 14:15 - 14:25 S46.12 Acidification and eutrophication of temperate North American and European ecosystems from atmospheric deposition
Jill S Baron (USA), *WD Bowman, H Sverdrup, CT Driscoll, JT Stoddard, MD Hartman*
- 14:25 - 14:35 S46.13 Acid deposition in Asia; current situation and prospects for the future
Henning Rohde (Sweden)
- 14:35 - 15:15 Discussion

15:15 - 15:45

Coffee Break

Wednesday, 11 March 2009

10:45 - 12:15 S47A

Hall B - Room K1

Session 47 -Managing Food in a Climate Constrained World Part I

Chairs:Professor Pam Matson, Stanford University

- 10:45 - 11:05 S47.01 Hydrologic limitation of global food production and the potential of green water management
Dieter Gerten (Germany), S Rost
- 11:05 - 11:25 S47.02 The Global Biodiversity Information Facility (GBIF): infrastructure, standards, and access to forecast agricultural production in the face of climate change
Andrew Jarvis (Denmark), S Gaiji, N King,
- 11:25 - 11:45 S47.03 A primary assessment of climate change impact on rice production in China
Yao Huang (PR China), W Zhang, Y Yu, W Sun, W Sun, J Chen
- 11:45 - 12:05 S47.04 Cross-scale and cross-level interactions in food systems – considerations for adaptation to global environmental change
Polly Ericksen (UK), J Ingram
- 12:05 - 12:15 Discussion

12:15 - 13:45

Lunch Break

13:45 - 15:15 S47B

Hall B - Room K1

Session 47 -Managing Food in a Climate Constrained World Part II

- 13:45 - 14:05 S47.05 Irrigation strategies for sustainable environmental and human health under climate change
Fulai Liu (Denmark)
- 14:05 - 14:25 S47.06 Forecasting rice yield under climate change scenarios and evaluation of agro-adaptation measures for Mekong basin region: a simulation study
Anshul Agarwal (Thailand), MS Babel
- 14:25 - 14:45 S47.07 Improving early warning systems for food security in Africa with geostationary earth observation data
Silvia Huber (The Netherlands), R Fensholt, K Rasmussen, SR Proud, A Anyamba
- 14:45 - 15:15 Discussion

15:15 - 15:45

Coffee Break

10:45 - 12:15 S48A

Hall B - Room U

Session 48 - Earth System Governance Part I

Chairs:Agus Sari, EcoSecurities & Professor Oran Young, Bren School of Environmental Science and Management, University of California

- 10:45 - 11:05 S48.01 Earth system governance. Outline of a research programme
Frank Biermann (The Netherlands)
- 11:05 - 11:25 S48.02 Kyoto2 - an effective, efficient and equitable framework for a new Climate Agreement
Oliver Tickell (UK)
- 11:25 - 11:45 S48.03 Post-2012 Options Beyond Climate Change: Using Inter-Linkages with Trade Issues to Break Deadlocks
Fariborz Zelli (UK), H van Asselt
- 11:45 - 12:05 S48.04 The urgency of the climate change challenge: Is governance “getting in the way” of progress?
Lisa Dilling (USA)
- 12:05 - 12:15 Discussion

12:15 - 13:45

Lunch Break

Wednesday, 11 March 2009

13:45 - 15:15 S48B

Hall B - Room U

Session 48 - Earth System Governance Part II

- 13:45 - 14:05 S48.05 The London Convention/London Protocol: an ocean institution addresses sub-seafloor CO₂ injection and ocean iron fertilization
Margaret Leinen (USA), R LaMotte, D Whaley
- 14:05 - 14:25 S48.06 Firm decisions to invest in low-carbon projects in developing countries: the influence of climate policy and evolving carbon markets
Nathan Hultman (USA), S Pulver
- 14:25 - 14:45 S48.07 The importance of being partners: exploring horizontal and vertical interplay in urban climate governance
Heike Schroeder (UK), H Bulkeley
- 14:45 - 15:05 S48.08 Strengthening Arctic governance in a post-Kyoto world
Jacqueline McGlade (Denmark)
- 15:05 - 15:15 Discussion

15:15 - 15:45

Coffee Break

10:45 - 12:15 S49A

Hall B - Room V

Session 49 - The Role of Integrated Assessment Models in Handling Climate Change Part I

Chair: Dr Chris Hope, University of Cambridge

- 10:45 - 11:10 S49.01 Discounting and uncertainty in integrated assessment: the Stern Review and its critics
Simon Dietz (UK)
- 11:10 - 11:35 S49.02 Climate policy analysis in the context of globalization
Marian Leimbach (Germany), N Bauer, L Baumstark, O Edenhofer
- 11:35 - 12:00 S49.03 Variation in the climatic response to SRES emissions scenarios in integrated assessment models
Rachel Warren (UK), M Mastrandrea, C Hope, A Hof
- 12:00 - 12:15 Discussion

12:15 - 13:45

Lunch Break

13:45 - 15:15 S49B

Hall B - Room V

Session 49 - The Role of Integrated Assessment Models in Handling Climate Change Part II

- 13:45 - 14:10 S49.04 How well do IAMs model climate change?
Detlef van Vuuren (The Netherlands), J Lowe, E Stehfest, L Gohar, A Hof, C Hope, R Warren, M Meinshausen, G-K Plattner
- 14:10 - 14:35 S49.05 Using insurance catastrophe models as a new form of integrated assessment modelling to investigate the economics of climate change impacts and adaptation
Celine Herweijer (UK), N Ranger, R Muir-Wood
- 14:35 - 15:00 S49.06 Modeling the human dimensions of climate change: the CIM-EARTH project
Elisabeth Moyer (USA), I Foster, K Judd, T Munson
- 15:00 - 15:15 Discussion

15:15 - 15:45

Coffee Break

Wednesday, 11 March 2009

10:45 - 12:15 S50A

Hall B - Room F

Session 50 - Enabling Long Term Climate Policy Part I

Chair: Detlef Sprinz, Senior Scientist, Potsdam Institute for Climate Impact Research (PIK)

- 10:45 - 10:50 Opening remarks
- 10:50 - 11:05 S50.01 Implementing long-term climate policy: three commitment problems
Detlef F Sprinz (Germany), J Hovi, A Underdal
- 11:05 - 11:20 S50.02 Mitigation implications of mid-century targets that preserve long-term climate policy options
Brian O'Neill (USA), K Riahi, I Keppo
- 11:20 - 11:35 S50.03 Playing it forward: path dependency, progressive incrementalism, and the "Super Wicked" problem of global climate change
Steven Bernstein (USA), K Levin, B Cashore, G Auld
- 11:35 - 11:50 S50.04 Adaptive approaches for long-term climate policy
Jürgen Scheffran (USA)
- 11:50 - 12:15 Discussion

12:15 - 13:45

Lunch Break

13:45 - 15:15 S50B

Hall B - Room F

Session 50 - Enabling Long Term Climate Policy Part II

- 13:45 - 14:00 S50.05 Risk of ruin: a framework for reviewing greenhouse gas stabilization targets
Oliver Bettis (UK), N Silver
- 14:00 - 14:15 S50.06 Trade & climate change: limits for consumption based trade measures?
Laura Nielsen (Denmark), S Charnovitz
- 14:15 - 14:30 S50.07 The Climate Action Initiative: deploying policy exercises and the pangaea simulation to facilitate and support long-term climate policy development
Andrew Jones (USA), A Barkman, RW Corell, T Cummings, T Fiddaman, J McGlade, F van Peter, ER Sawin, LS Siegel, J Sterman
- 14:30 - 14:45 S50.08 The challenge is unprecedented
Thomas C Schelling (USA)
- 14:45 - 15:15 Discussion

15:15 - 15:45

Coffee Break

15:45 - 17:00

Plenary Hall - Auditorium A

Plenary Session

Chair: Professor Martin Parry, Grantham Institute and Centre for Environmental Policy, Imperial College London

Confirmed Speakers

Dr Balgis Osman-Elasha, Higher Council for Environment & Natural Resources (HCENR)

Professor Amanda Lynch, Monash University

17:00 - 18:00

Welcome Drink

18:00 - 20:30

Congress Dinner

Chair: Professor Will Steffen, Executive Director of ANU Climate Change Institute

Confirmed Dinner Speaker

Professor Johan Rockström, University of Stockholm ^ Executive Director at Stockholm Environment Institute

Thursday, 12 March 2009

09:00 - 10:30

Plenary Hall - Auditorium A

Plenary Session

Chair: *Mrs Ulla Tørnæs, Minister for Development Cooperation, Denmark*

Confirmed Speakers

Professor Diana Liverman, Oxford University

Professor John Schellnhuber, Potsdam Institute for Climate Impact Research & Visiting Professor at Oxford University

Professor Lord Nicholas Stern, London School of Economics & Political Science (LSE)

10:30 - 11:00

Coffee Break

11:00 - 12:30 S29B

Hall B - Room D

Session 29 - Climate Change and Water Systems Part II

Chairs: *Professor Maria Carmen Lemos, University of Michigan & Professor Torkil Jøneh Clausen, DHI*

11:00 - 11:05

Introduction by the Co-shairs

11:05 - 11:15

S29.08

Evaluating the benefits of adapting to changing flood hazard in Europe

Luc Feyen (Italy), R Dankers, K Bódis

11:15 - 11:25

S29.09

Quantifying the effects of future climate change on groundwater and stream discharge in Denmark

Lieke van Roosmalen (Denmark), TO Sonnenborg

11:25 - 11:35

S29.10

Future European drought regimes under mitigated and un-mitigated climate change

Rachel Warren (UK), R Yu, T Osborn, S de la Nava Santos

11:35 - 11:45

S29.11

Climate change and the changing frequency of floods and droughts: scenario analysis of risk and adaptation in Europe

Joseph Alcamo (Germany) (Needs to be moved to the afternoon session as he is also speaking at the same time in another session)

11:45 - 11:55

S29.12

Climate change scenarios of low-flow conditions and hydro power production in the upper Danube River basin

Markus Muerth (Germany), W Mauser, S Stoeber

11:55 - 12:30

Discussion

12:30 - 14:00

Lunch Break

14:00 - 15:30 S29C

Hall B - Room D

Session 29 - Climate Change and Water Systems Part III

14:00 - 14:05

Introduction by the Co-shairs

14:05 - 14:10

Dialogue on adaptation to Climate Change for land and water management – a contribution to the UNFCCC and COP 15 processes

Mr Ib Petersen, Secretary of State, Ministry of Foreign Affairs, Denmark

14:10 - 14:20

S29.13

Technical knowledge and democratic decision-making: building adaptive capacity of fresh water systems in Brazil

Maria Carmen Lemos (USA), A Bell, N Engle, R Formiga-Johnsson, D Nelson

14:20 - 14:30

S29.14

Securing water for food, livelihoods and ecosystems to face climate change: research needs

Vladimir Smakhtin (Sri Lanka), C de Fraiture, D Bossio, D Molden, C Hoanh, A Noble, M Giordano

14:30 - 14:40

S29.15

The use and application of knowledge networks for water systems' management of climate change

David Feldman (USA), H Ingram

14:40 - 14:50

S29.16

Comparison of the processes for developing climate change adaptation strategies for dealing with floods and droughts in the Netherlands, South Africa, China and Australia

Patrick Huntjens (Germany), C Pahl-Wostl, X Jun, J Camkin, N Kranz

14:50 - 15:00

S29.17

Water bargaining & climate adaptation: asymmetric access to information affects equity

Alexander Pfaff (USA), MA Velez, K Broad, J Hercio, R Taddei

15:00 - 15:10

S29.18

Approaches to identifying climate change adaptation strategies: a comparison of case studies in the UK and California

Suraje Dessai (UK), D Groves, R Lempert

15:10 - 15:30 Discussion

Thursday, 12 March 2009

11:00 - 12:30 S30A

Hall B - Room E

Session 30 - Impact of Climate Change on Ecosystem Services Part I

Chairs: Professor Harold Mooney, Stanford University & Dr Anne Larigauderie, Executive Director of DIVERSITAS

- 11:00 - 11:15 S30.01 Biodiversity and ecosystem services: climate change impacts on species extinctions
Georgina Mace (UK), *W Foden*
- 11:15 - 11:30 S30.02 The climate regulating services provided by ecosystems
Robert Scholes (South Africa), *K Mennell*
- 11:30 - 11:45 S30.03 How biodiversity response to changing climate feeds on to ecosystem processes underlying ecosystem services
Sandra Lavorel (France), *J-P Sarthou, W Thuiller*
- 11:45 - 12:00 S30.04 Coral reefs and rapid climate change: impacts, risks and implications for tropical societies
Ove Hoegh-Guldberg (Australia), *T Hughes, K Anthony, K Caldeira, M Hatzioolos, J Kleypas*
- 12:00 - 12:15 S30.05 Risks and adaptation options for rivers and streams
Margaret Palmer (USA)
- 12:15 - 12:30 Discussion

12:30 - 14:00

Lunch Break

14:00 - 15:30 S30B

Hall B - Room E

Session 30 - Impact of Climate Change on Ecosystem Services Part II

- 14:00 - 14:15 S30.06 Direct and indirect impacts of climatic change on species diversity and genetic diversity
Tetsukazu Yahara (Japan), *M Donoghue, A Hendry*
- 14:15 - 14:30 S30.07 The impacts of climate change on ecosystem services: the case of disrupted disease regulation in South-Western Amazonia
Manuel Cesario (Brazil), *R Rangel Cesario, M Andrade-Morrays*
- 14:30 - 14:45 S30.08 Climate, ecosystem services and social systems
Thomas Elmqvist (Sweden), *C Perrings*
- 14:45 - 15:00 S30.09 Summary
Harold Mooney (USA)
- 15:00 - 15:30 Discussion

15:30 - 16:00

Coffee Break

11:00 - 12:45 S31A

Hall B - Room P

Session 31 - Biodiversity: Enhancement of Resilience or Facilitating Transformation? Part I

Chairs: Dr Mark Stafford-Smith, Commonwealth Scientific and Industrial Research Organisation (CSIRO) & Professor Paul Leadley, Université Paris-Sud 11

- 11:00 - 11:20 S31.01 From principles to practice: national approaches to managing biodiversity under climate change in Australia
Will Steffen (Australia), *A Burbidge, L Cherry, B Edgar, L Hughes, R Kitching, D Lindenmayer, J Mummery, W Musgrave, M Stafford Smith, P Werner*
- 11:20 - 11:40 S31.02 Climate change adaptation and mitigation: synergisms, antagonisms and trade-offs for biodiversity
Pam Berry (UK), *J Paterson, M Cabeza, A Dubuis, A Guisan, L Jäätelä, I Kühn, M Musche, J Piper, E Wilson*
- 11:40 - 12:00 S31.03 Redefining in situ and ex situ conservation of useful plant diversity in an era of climate change
Toby Hodgkin (Italy), *L Snook, M Bellon, E Frison*
- 12:00 - 12:20 S31.04 Enhancing the adaptive capacity of biodiversity through implementation of the convention on biological diversity
Jaime Alexandra Webbe (Canada), *A Djoghlaif*
- 12:20 - 12:45 Discussion including posters

12:30 - 14:00

Lunch Break

Thursday, 12 March 2009

14:00 - 15:30 S31B

Hall B - Room P

Session 31 - Biodiversity: Enhancement of Resilience or Facilitating Transformation? Part II

- 14:00 - 14:20 S31.05 Ensuring biodiversity security in the face of climate change
Sandy Andelman (USA), G Midgley, S Polasky, M Bode, J Busch, L Hannah, P Marquet, D Panitz, B Reyers, R Shaw, R Wise
- 14:20 - 14:40 S31.06 Towards an adaptive management framework for climate change across species, sites and land/seascapes
David Hole (USA), W Turner, T Brooks, S Willis, B Huntley, L Hannah, S Butchart, P Donald
- 14:40 - 15:00 S31.07 Developing a systematic regional approach for biodiversity conservation in South East Asia: a social-ecological perspective
Craig Miller (Australia), R Lasco, D Hilbert, L Tandug, M Dunlop, T Jovanovic
- 15:00 - 15:20 S31.08 Global warming is eroding the resilience of kelp beds
Peter Staeher (Denmark), T Wernberg, M Thomsen, F Tuya, G Kendrick, B Toohey
- 15:20 - 15:30 Discussion on session conclusions

15:30 - 16:00

Coffee Break

11:00 - 12:30 S32A

Hall B - Room N

Session 32 - Economic Costs of Adapting and not Adapting to Climate Change

Part I

Chair: Dr Frank Jotzo, Australian National University

- 11:00 - 11:15 S32.01 Effects of climate change in Europe: results from the PESETA study
Juan Carlos Ciscar (Spain), L Szabo, A Soria, A Iglesias, L Garrote, S Pye, L Horrocks, P Watkis, R Nicholls, R Roson, F Bosello, L Feyen, R Dankers, A Moreno, B Amelung, JM Labeaga, X Labandeira, OB Christensen, C Goodess, D van Regemorter
- 11:15 - 11:30 S32.02 Economic consequences of Europe's changing climate – 2008 indicator-based assessment
Stephane Isoard (Denmark)
- 11:30 - 11:45 S32.03 A roadmap to assess the economic cost of climate change with an application to hurricanes in the United States
Stephane Hallegatte (France)
- 11:45 - 12:00 S32.04 Estimation of the economic costs of non adapting Japanese port infrastructure to a potential increase in tropical cyclone intensity
Miguel Esteban (Japan), C Webersik, T Shibayama
- 12:00 - 12:15 S32.05 To adapt or not to adapt? Towards local costing of climate change impacts for decision making in adaptation
Alistair Hunt (UK), T Taylor
- 12:15 - 12:30 Discussion

12:30 - 14:00

Lunch Break

Thursday, 12 March 2009

14:00 - 15:30 S32B

Hall B - Room N

Session 32 - Economic Costs of Adapting and not Adapting to Climate Change Part II

- 14:00 - 14:15 S32.06 Private adaptation of critical infrastructures is inefficient
Klaus Eisenack (Germany)
- 14:15 - 14:30 S32.07 Regional total climate change costs for different burden sharing regimes and concentration targets
Andries Hof (The Netherlands), M den Elzen, D van Vuuren
- 14:30 - 14:45 S32.08 Climate change and Ethiopia
Channing Arndt (Denmark), S Robinson, H Ahmed, D Willenbockel
- 14:45 - 15:00 S32.09 How to go about costing and funding adaptation in developing countries?
Stephen Howes (Australia), F Jotzo
- 15:00 - 15:30 Discussion

15:30 - 16:00

Coffee Break

11:00 - 12:30 S33A

Hall B - Room O

Session 33 - Adapting Urban Areas to Climate Change Part I

Chair: Professor Roberto Sanchez-Rodriguez, University of California at Riverside

- 11:00 - 11:15 S33.01 Building urban resilience in the least developed countries
David Dodman (UK)
- 11:15 - 11:30 S33.02 Adaptation in the urban environment: a story of process and outcome
Darryn McEvoy (The Netherlands), K Lonsdale, J Rawlins, S Lindley, J Hinckel, M Falaleeva
- 11:30 - 11:45 S33.03 Regional adaptation to climate change in the United States: are metropolitan planning organizations responding?
Eric Lindquist (USA)
- 11:45 - 12:00 S33.04 Joint-action for urban resilience: Linking national and local climate change strategies
Cecilia Njenga (Kenya), R Tuts
- 12:00 - 12:15 S33.05 City-scale integrated assessment of climate impacts, adaptation and mitigation
Richard Dawson (UK), J Hall, S Barr, M Batty, A Bristow, S Carney, A Dagoumas, S Evans, A Ford, M Tight, H Watters, A Zanni
- 12:15 - 12:30 Discussion

12:30 - 14:00

Lunch Break

14:00 - 15:30 S33B

Hall B - Room O

Session 33 - Adapting Urban Areas to Climate Change Part II

- 14:00 - 14:15 S33.06 The framing of an eco-city: towards cross-sectional urban policies of climate and urban development
Anne Jensen (Denmark), AB Pedersen, S Svalgaard
- 14:15 - 14:30 S33.07 Integrated planning strategies for climate change mitigation and adaptation in Europe's urbanising regions – towards a research agenda
Hilda Blanco (USA), S Pauleit, G Jørgensen, TA Carstensen, J Handley
- 14:30 - 14:45 S33.08 Rapidly growing cities and their resilience to climate change: a meta-analysis of global trends in urban land-use change and indicators of resilience and vulnerability
Karen C Seto (USA), Fragkias, B Guneralp, M Reilly
- 14:45 - 15:00 S33.09 Enhancing adaptation of poor urban dwellers to the effects of climate variability and change
Shuaib Lwasa (Uganda), M Tenywa, GJ Majaliwa Mwanjalolo, H Sengendo, G Prain
- 15:00 - 15:15 S33.10 The impacts of climate change on New York City's energy sector: vulnerabilities and potential adaptation strategies
Stephen Hammer (USA), L Parshall
- 15:15 - 15:30 S33.11 Adaptation in the transport sector: the constraining effect of actor-interdependencies
Esther Hoffmann (Germany), D Reckien, K Eisenack

Thursday, 12 March 2009

11:00 - 12:30 S34A

Hall B - Room T

Session 34 - Adapting Human Land Use to Climate Change Part I

Chair: Professor Anette Reenberg, University of Copenhagen

- 11:00 - 11:15 S34.01 Urban land-use change and affects on regional climate: reduced precipitation from rapidly growing cities in China
Karen C Seto (USA), *RK Kaufmann, A Schneider, Z Liu, L Zhou, W Wang*
- 11:15 - 11:30 S34.02 Linking climate factors, agricultural development and adaptation strategies in the Sahel-Sudan zone of West Africa
Ole Mertz (Denmark), *C Mbow, JØ Nielsen, A Ka, D Diallo, P Cissé, B Barbier, DE Da, I Bouzou, WM Mato, D Dabi, V Themegbulem*
- 11:30 - 11:45 S34.03 Scenarios of agricultural land-use change in Africa under changing climate conditions
Rüdiger Schaldach (Germany), *J Alcamo, J Koch, D Lapola*
- 11:45 - 12:00 S34.04 Food production risks associated with land use change and climate change in East Africa
Nathan Moore (USA), *G Alagarswamy, B Pijanowski, P Thornton, J Olson, B Lofgren, J Andresen, D Campbell*
- 12:00 - 12:15 S34.05 Climate change, land use policies, and adaptation in Alxa region, inner Mongolia, China
Henry Neufeldt (UK)
- 12:15 - 12:30 S34.06 El Niño and land-use change – an attempt to simulate farmers’ reactions on climate variability and climate change in Indonesia
Joerg A Priess (Germany)

12:30 - 14:00 Lunch Break

14:00 - 15:30 S34B

Hall B - Room T

Session 34 - Adapting Human Land Use to Climate Change Part II

- 14:00 - 14:15 S34.07 Sustainable land use for adaptation to long term impacts of climate change in Himalaya
Prakash Chandra Tiwari (India)
- 14:15 - 14:30 S34.08 Mapping and modelling ecosystem services in land systems
Richard Aspinall (UK), *E Milne*
- 14:30 - 14:45 S34.09 The influence of land use change, CO2 fertilization and climate change on the European carbon budget
Jemma Gornall, (UK), *J Hughes, A Wiltshire*
- 14:45 - 15:00 S34.10 Integration of spatially explicit climate-adaptation measures with a land use model
Eric Koomen (The Netherlands), *P-D Nga*
- 15:00 - 15:15 S34.11 Adaptation to land use and global change thresholds
Dennis Ojima (USA), *R Corell*
- 15:15 - 15:30 S34.12 Discussion

15:30 - 16:00 Coffee Break

Thursday, 12 March 2009

11:00 - 12:30 S36A

Hall B - Room Q

Session 36 - Approaches to Measuring and Enhancing

Adaptive Capacities Part I

Chairs: Professor Tom E Downing, Stockholm Environment Institute & Dr Anthony Patt, IIASA

- 11:00 - 11:10 Introduction
Anthony Patt (Austria)
- 11:10 - 11:13 S36.01 Institutional factors for adaptation to climate change in the Congo Basin forest of Cameroon
H Carolyn Peach Brown (Canada)
- 11:13 - 11:16 S36.02 Social networks and rural adaptation to climate change: a Bangladesh case study
Fiona Rotberg (Sweden)
- 11:16 - 11:19 S36.03 Drought and flood in Korhogo (Côte d'Ivoire : from their manifestation to population perception and coping strategies.
Brama Koné (Ivory Coast), **NK Boko**, **E Kouakou**, **GR Koffi**, **PV Houenou**, **G Cissé**
- 11:19 - 11:22 S36.04 A participatory approach for defining response strategies to reduce risk and vulnerability from flooding in a changing climate
Valentina Giannini (Italy), **C Giupponi**, **A Allan**, **A Rieu-Clarke**, **M Clark**, **C Hutton**, **L Ceccato**
- 11:22 - 11:25 S36.05 Linking knowledge systems for rural livelihoods adaptation under uncertainty: drying and warming in Andean ecosystems
Karen Garrett (USA), **C Valdivia**, **JL Gilles**, **A Seth**, **J Thiebault**, **E Jiménez**, **M García**, **E Yucra** (Change of Presenter)
- 11:25 - 11:28 S36.06 A resilience check – enhancing adaptive capacities in Sub-Sahara African agriculture
Chinwe Ifejika Speranza (Germany)
- 11:28 - 11:31 S36.07 Vulnerability and adaptation to water scarcity in the European Alps
Stephane Isoard (Denmark), **S McCallum**, **B Hain**
- 11:31 - 11:34 S36.08 Embedding climate change into evaluation frameworks
Lisa Horrocks (UK), **T Mitchell**, **J Leavy**, **L Horrocks**, **M Greeley**
- 11:34 - 11:37 S36.09 Goal conflicts in adaptation to climate change: a Swedish report
Karin Edvardsson Björnberg (Sweden)
- 11:37 - 11:40 S36.10 Measuring adaptation through building scientific capacity: a survey of investigators from the AIACC project
Hassan Virji (USA), **J Padgham**
- 11:40 - 12:00 Rotating through room, look at visual props, network
12:00 - 12:30 General Discussion

12:30 - 14:00

Lunch Break

Thursday, 12 March 2009

14:00 - 15:30 S36B

Hall B - Room Q

Session 36 - Approaches to Measuring and Enhancing Adaptive Capacities Part II - Carousel, 3 parallel themes, groups rotating through them (3 rotations, 20 minutes each)

Theme 1. Targeting Adaptation in Processes of Social Learning

14:00 - 14:10

Introduction

Tom E Downing (Sweden)

14:10 - 14:12

S36.11

Measuring adaptation as a socio-institutional process in targeting climate adaptation

Ian Tellam (The Netherlands), J Gonzales, AR Subbiah, A Nishat, T Devissner, P O'Donoghue, K Lonsdale, S Bharwani, V Mathur, W Kojo Bonzu, L Gladin

14:12 - 14:14

S36.12

Measuring adaptation: comparing possible outcomes or describing social learning?

Jochen Hinkel (Germany)

14:14 - 14:16

S36.13

Towards indicators for adaptation: policy needs, possible approaches and practical solutions

Lisa Horrocks (UK), A Hunt

14:16 - 14:20

Questions

14:20 - 14:30

Listing principles

Theme 2. Linking Poverty to Enhancing Adaptation

14:10 - 14:13

S36.14

An assessment of channels to support climate adaptation by the poorest

Simon Anderson (UK), T Geoghegan, J Ayers

14:13 - 14:20

Questions

14:20 - 14:30

Listing principles

Theme 3. Governance and Science-Policy Interfaces

14:10 - 14:13

S36.15

Decision makers, scientists and modellers: collaborative approaches to enhancing adaptive capacity

David Stainforth (UK), F Zermoglio, Mark Tadross, T Downing

14:13 - 14:16

S36.16

A state of the art of governance literature on adaptation to climate change: towards a research agenda

Kim Van Nieuwaal (The Netherlands), P Driessen, T Spit, K Termeer

14:16 - 14:20

Questions

14:20 - 14:30

Listing principles

15:10 - 15:30

General Discussion

15:30 - 16:00

Coffee Break

11:00 - 12:30 S37A

Hall B - Room U

Session 37 - Adapting Future Agricultural Production to Climate Change Part I

Chairs: Professor John R Porter, University of Copenhagen & Professor Peter Gregory, Director of Scottish Crop Research Institute (SCRI)

11:00 - 11:30

S37.01

Adapting future agricultural production to climate change: a survey of the challenge to increase food security and reduce risk of hunger

Martin Parry (UK)

11:30 - 11:45

S37.02

Importance of local institutions and downwards accountability of local government for mitigating adverse effects of global climate change for poor farmers in South-Eastern Africa

Esbern Friis-Hansen (Denmark), O Stage, C Aben

11:45 - 12:00

S37.03

Modeling farmers' adaptation to climate change - integrating a biophysical and an economic model

Robert Finger (Switzerland)

12:00 - 12:15

S37.04

Future cereal production in China: the interaction of climate change, water availability and socio-economic scenarios

Declan Conway (UK), W Xiong, J Jinhe, Y Li, L Erda, Y Xu, H Ju, Y Li

12:15 - 12:30

Discussion

12:30 - 14:00

Lunch Break

Thursday, 12 March 2009

14:00 - 15:30 S37B

Hall B - Room U

Session 37 - Adapting Future Agricultural Production to Climate Change Part II

- 14:00 - 14:15 S37.05 What can we learn from historic adaptations to extreme events in agriculture?
Anita Wreford (UK), N Adger
- 14:15 - 14:30 S37.06 Managing future agricultural production in a variable and changing climate
Steven Crimp (Australia), M Howden, A Laing, D Gaydon, A Gartmann, P Brown
- 14:30 - 14:45 S37.07 Anticipating and responding to biological complexity in the effects of climate change on agriculture
Karen Garrett (USA), G Forbes, S Pande, S Savary, A Sparks, C Valdivia, C Vera Cruz, L Willocquet
- 14:45 - 15:00 S37.08 Climate change and alternative cropping patterns in lower Seyhan irrigation project: a regional simulation analysis with MRI-CGCM and CCSR-CGCM
Chieko Umetsu (Japan), K Palanisami, Z Coşkun, S Donma, T Nagano, Y Fujihara, K Tanaka
- 15:00 - 15:30 Discussion

15:30 - 16:00

Coffee Break

11:00 - 12:30 S38B

Hall B - Room V

Session 38 - Adapting Forests to Climate Change Part II

Chair: Professor Niels Elers Koch, University of Copenhagen

- 11:00 - 11:15 S38.07 A review of measures to adapt to climate change in forests of EU countries
Marcus Lindner (Finland), M Kolström
- 11:15 - 11:30 S38.08 A review of measures to adapt to climate change in forests in Southeast Asia
Heru Santoso (Indonesia)
- 11:30 - 11:45 S38.09 Locating climatically stable forest in West and Central Africa, protecting the nodes in the web of life
Miguel Leal (USA)
- 11:45 - 12:00 S38.10 Adaptation of tropical pine plantation forestry to climate change
Christoph Leibing (Colombia), M van Zooneveld, A Jarvis
- 12:00 - 12:15 S38.11 Adaptation, non-timber forest products and rural livelihood: an empirical study in West Bengal, India
Jyotish Prakash Basu (India)
- 12:15 - 12:30 S38.12 Adaptive forest management in Germany - strategies, options and risks
Andreas Bolte (Germany), P Spathelf, C Ammer
- 12:30 - 12:45 Discussion

12:30 - 14:00

Lunch Break

14:00 - 15:30 S38C

Hall B - Room V

Session 38 - Adapting Forests to Climate Change Part III

- 14:00 - 14:15 S38.13 Adaptation of forests to climate change/ socio-economic considerations
Balgis Osman-Elasha (Sudan)
- 14:15 - 14:30 S38.14 Policy options for the adaptation of forests to impacts of climate change
Jeremy Rayner (Canada), P Glück
- 14:30 - 14:45 S38.15 Climate change and forest ecosystems in Belarus: integration of exposure and institutional adaptability
Viktar Kireyeu (Hungary), A Shkaruba
- 14:45 - 15:00 S38.16 Changing policies to adapt forests to climate change
Rashid Sheikh (Bangladesh)
- 15:00 - 15:15 S38.17 Adapting research direction on wood mobilization to meet the challenges of climate change
Piotr Paschalis-Jakubowicz (Poland)
- 15:15 - 15:30 Discussion

15:30 - 16:00

Coffee Break

Thursday, 12 March 2009

11:00 -12:30 S39A

Hall B - Room G

Session 39 - Climate Tools and Information to Support Adaptation Part I

Chair: Dr Jill Jäger, Sustainable Europe Research Institute (SERI)

- 11:00 - 11:15 S39.01 The role of shared mental models for adaptation policies to climate change
Ilona Banaszak (Slovak Republic), P Matczak, A Chorynski
- 11:15 - 11:30 S39.02 Frame-based guide to situated decision-making on climate change
Joop de Boer (The Netherlands)
- 11:30 - 11:45 S39.03 The climate learning ladder. A dialogic tool to support Integrated Climate Governance (ICG)
J David Tabara (Spain), A Serra
- 11:45 - 12:00 S39.04 Knowledge for adaptation: the ADAM digital adaptation compendium
Jochen Hinkel (Germany), ME Hofmann, K Lonsdale, P Matczak, D Mcevoy, M Wrobel
- 12:00 - 12:15 S39.05 Participatory scenario development for integrated sustainability assessment
Lisa Bohunovsky (Austria), I Omann
- 12:15 - 12:30 S39.06 Aiding multi-level decision-making processes for climate change mitigation and adaptation
Katherine Anne Daniell (France), MA Máñez Costa, N Ferrand, M Vassileva, F Aix, P Coad, IS Ribarova

12:30 - 14:00

Lunch Break

14:00 - 15:30 S39B

Hall B - Room G

Session 39 - Climate Tools and Information to Support Adaptation Part II

- 14:00 - 14:15 S39.07 An integrated approach to support climate policy formulation and evaluation
Andrea Marcello Bassi (USA)
- 14:15 - 14:30 S39.08 Climate change adaptation with multiple-perspective based games
Pieter Valkering (The Netherlands)
- 14:30 - 14:45 S39.09 Providing scientific basis for climate change adaptation strategies in the Andes region
Nadine Salzmann (Switzerland), P Calanca, A Diaz, C Huggel, T Jonas, C Jurt, T Konzelmann, P Lagos, M Rohrer, D Sietz, W Silverio, M Zappa
- 14:45 - 15:00 S39.10 "One size fits all?" Can the IPCC serve as blueprint for scientific advice on adaptation to climate change?
Silke Beck (Germany), C Goerg
- 15:00 - 15:15 S39.11 From knowledge to action? Either via science as usual or 'just do it'
Peter Moll (Germany)
- 15:15 - 15:30 Discussion

15:30 - 16:00

Coffee Break

11:00 - 12:30 S41A

Hall B - Room I

Session 41 - Adaptation To Climate Change In Least Developed Countries - Challenges, Experiences and Ways Forward Part I

Chair: Head of Centre John Christensen, UNEP Risø Centre on Energy, Climate and Sustainable Development

- 11:00 - 11:15 **Keynote Lecture**
Saleemul Huq (IIED)
- 11:15 - 11:30 S41.01 Mainstreaming climate change in the implementation of poverty reduction strategies
Gonzalo Griebenow (USA)
- 11:30 - 11:45 S41.02 Financing climate change adaptation in small island developing states
Kanako Morita (Japan)
- 11:45 - 12:00 S41.03 Understanding adaptation-development links from practice
Muyeye Chambwera (UK)
- 12:00 - 12:15 S41.04 Adaptation to climate change: a case study on Bangladesh
Saila Parveen (Bangladesh), I Faisal
- 12:15 - 12:30 S41.05 Empirically based analysis of household-level adaptive capacity in the Central Himalaya
Carsten Smith Olsen (Denmark), HO Larsen, JF Lund, H Meilby, ØJ Nielsen, S Rayamajhi, N Strange

12:30 - 14:00

Lunch Break

Thursday, 12 March 2009

14:00 - 15:30 S41B

Hall B - Room I

Session 41 - Adaptation To Climate Change In Least Developed Countries - Challenges, Experiences and Ways Forward Part II

- 14:00 - 14:15 S41.06 Views on rural vulnerability following hurricane Mitch in Nicaragua
Kristian Thor Jakobsen (Denmark)
- 14:15 - 14:30 S41.07 Linkages between climate change, health, water and food security: what are the issues for Southern Africa?
Moses Chimbari (Uganda), D Mazvimavi, G Manase, P Furu, M Feilberg, JR Jensen, N Ørnbjerg, AM Sørensen, PV Madsen
- 14:30 - 14:45 S41.08 Can groundwater enable communities in sub-Saharan Africa to adapt to predicted impacts of climate change on freshwater resources?
Richard Taylor (UK), C Tindimugaya
- 14:45 - 15:00 S41.09 Linking climate trends to coping strategies in northern Tanzania
Sara Trærup (Denmark), O Mertz
- 15:00 - 15:15 S41.10 Does climate change control land degradation in the Sahel?
Rasmus Fensholt (Denmark), K Rasmussen
- 15:15 - 15:30 Discussion

15:30 - 16:00

Coffee Break

11:00 - 12:30 S42A

Hall B - Room J

Session 42 - Adaptation and Climate Risk Insurance Part I

Chair: Dr Koko Warner, Munich Climate Insurance Initiative (MCII)

- 11:00 - 11:05 Introductory remarks, session objectives
Koko Warner (USA)
- 11:05 - 11:15 S42.01 The insurability of the impacts of climate change
Nick Silver (UK), Andrew Dlugolecki (UK)
- 11:20 - 11:30 S42.02 Adapting to climate change to maintain the insurability of people and property against extreme weather and sea level rise
Nicola Ranger (UK), C Herweijer, R Ward, R Muir-Wood
- 11:35 - 11:45 S42.03 Risk prevention and flood insurance in the UK: ensuring availability in the face of rising climate risks
Swenja Surminski (UK)
- 11:45 - 12:00 Discussion
- 12:00 - 12:15 S42.04 Climate change and climate insurance. The case of Malawi
Reinhard Mechler (Austria), S Hochrainer, G Pflug
- 12:15 - 12:25 S42.05 Climate risk insurance: opportunities for poverty reduction & adaptation
Molly Hellmuth (USA), H Bhojwani, D Osgood, J Hansen, A Moorhead
- 12:25 - 12:30 Discussion

12:30 - 14:00

Lunch Break

14:00 - 15:30 S42B

Hall B - Room J

Session 42 - Adaptation and Climate Risk Insurance Part II

- 14:00 - 14:05 Welcome back, second session objectives
Koko Warner (USA)
- 14:05 - 14:15 S42.06 Climate insurance as part of a post-2012 adaptation strategy
Koko Warner (USA)
- 14:20 - 14:30 S42.07 Insurance Mechanisms to help Developing Countries respond to climate change
Joanne Linnerooth-Bayer (Austria), C Bals, R Mechler
- 14:35 - 14:45 Towards a risk finance facility for development: The UNDP initiative
Pablo Suarez (The Netherlands)
- 14:50 - 15:30 Discussion

15:30 - 16:00

Coffee Break

Thursday, 12 March 2009

11:00 - 12:30 S43A

Hall B - Room L

Session 43 - Integrating Climate Change into Global Sustainability Part I

Chair: Professor Kazuhiko Takeuchi, University of Tokyo

- 11:00 - 11:05 Introduction
Kazuhiko Takeuchi (Japan)
- 11:05 - 11:30 **Keynote Lecture:** Towards global sustainability Structuring of actions through networks of networks and knowledge innovation
Hiroshi Komiyama, President, The University of Tokyo (Japan)
- 11:30 - 11:40 S43.01 Social-ecological resilience and transformation in the face of global change
Carl Folke (Sweden)
- 11:40 - 11:50 S43.02 Millennium ecosystem assessment: balancing trade offs in a holistic manner
AH Zakri (Japan)
- 11:50 - 12:00 S43.03 The climate of disciplinary tunnel vision
Petter Naess (Denmark)
- 12:00 - 12:10 S43.04 Agglomeration economies and spatial sustainability
Henri Waisman (France), F Grazi, JCJM van den Bergh
- 12:10 - 12:20 S43.05 Knowledge structuring and an exploration system for global sustainability and its application to the biofuel issue
Riichiro Mizoguchi (Japan), O Saito, K Kozaki, T Hirota,
- 12:20 - 12:30 Discussion

12:30 - 14:00

Lunch Break

14:00 - 15:30 S43B

Hall B - Room L

Session 43 - Integrating Climate Change into Global Sustainability Part II

- 14:00 - 14:10 S43.06 Development of long-term vision of global sustainable society from viewpoints of low-carbon, material cycle and ecosystem.
Toshihiko Masui (Japan), T Inoue, K Takeuchi, K Hanaki, S Arai, G Hibino, S Matsui, M Yoshikawa, Y Motoki
- 14:10 - 14:20 S43.07 Strategies for reducing carbon emissions from disturbed tropical peat
Mitsuru Osaki (Japan), T Iwakuma, H Takahashi, T Hirano, T Kohyama, N Tanaka, T Honnma, H Sekine, A Braimoh, SH Limin, B Setiadi
- 14:20 - 14:30 S43.08 Consumer behaviour and climate change: consumers' strategies to mitigating climate change impacts in Mauritius.
Lutchmeeduth Bullywon (Mauritius), A Sookun
- 14:30 - 14:40 S43.09 Protecting the Arctic marine environment in a changing climate – options for transatlantic and international governance
Katharina Umpfenbach (Germany), S Cavaliere
- 14:40 - 14:50 S43.10 Traditional knowledge for developing holistic adaptation and mitigation measures
Sam Johnston (Japan), V Tauli-Corpuz
- 14:50 - 15:00 S43.11 Economic impacts of rising demand of vegetable oil for bio-diesel and food on sustainability of developing countries
Hirohata Matsuda (Japan), N Suzuki
- 15:00 - 15:10 S43.12 Corporate sustainable-developmental responsibility (CSdR): corporate addressing climate change within a sustainability framework
Harn Wei Kua (Singapore)
- 15:10 - 15:30 General Discussion

15:30 - 16:00

Coffee Break

Thursday, 12 March 2009

11:00 - 12:30 S51A

Hall B - Room K1

Session 51 -Managing Food in a Climate Constrained World Part I

Chairs: Professor Pam Matson, Stanford University

- 11:00 - 11:20 S51.01 Food security in the face of climate change, population growth and resource constraints
Islam Faisal (Bangladesh), S Parveen
- 11:20 - 11:40 S51.02 Simulating the interactions between climate change, food, and water in future Africa
Joseph Alcamo (Germany)
- 11:40 - 12:00 S51.03 Technological change in agriculture and the trade-offs between land expansion, intensification and international trade
Hermann Lotze-Campen (Germany), A Popp
- 12:00 - 12:20 S51.04 Global food flows and urban food security: case studies from three IARU cities
Lisa Deutsch (Sweden), D Dumaresq, R Dyball, H Matsuda, J Porter, A Reenberg, K Takeuchi
- 12:20 - 12:30 Discussion

12:30 - 14:00

Lunch Break

14:00 - 15:30 S51B

Hall B - Room K1

Session 51 -Managing Food in a Climate Constrained World Part II

- 14:00 - 14:20 S51.05 Predicting the climate impacts of liquid biofuels through project-level and policy level case studies: contrasting approaches in Ethiopia and the Philippines
Ian Monroe (USA)
- 14:20 - 14:40 S51.06 Climate change impacts on African agriculture: uncertainties and implications for adaptation
Marshall Burke (USA)
- 14:40 - 15:30 Discussion

15:30 - 16:00

Coffee Break

11:00 - 12:30 S52A

Hall B - Room R

Session 52 - Economic Costs of not Mitigating Climate Change Part I

Chair: Kevin Anderson; Research Director; Tyndall Centre for Climate Change Research; University of Manchester and University of East Anglia

- 11:00 - 11:20 S52.01 Climate change & carbon budgets: implications for international transport and emissions trading
Alice Bows (UK), K Anderson
- 11:20 - 11:40 S52.02 The economic impact of future increase in tropical cyclones in Japan
Christian Webersik (Japan), M Esteban, T Shibayama
- 11:40 - 12:00 S52.03 Loss of worker productivity due to projected climate change
Tord Kjellstrom (Australia), B Lemke
- 12:00 - 12:20 S52.04 Climate change adaptation scenario for the European electricity sector
Ulrich Reiter (Switzerland), H Turton
- 12:20 - 12:30 Discussion

12:30 - 14:00

Lunch Break

Thursday, 12 March 2009

14:00 - 15:30 S52B

Hall B - Room R

Session 52 - Economic Costs of not Mitigating Climate Change Part II

- 14:00 - 14:20 S52.05 Quantifying the costs of no-action: high-resolution impacts analysis for the United States
Noah Diffenbaugh (USA)
- 14:20 - 14:40 S52.06 An adaptability limit for large warmings--are we accounting for it?
Steven Sherwood (USA), M Huber
- 14:40 - 15:00 S52.07 Representing the impacts of climate change in a US economic model
Martin Ross (USA), B DeAngelo, R Beach, M Gallaher, S Pattanayak, C Poulos, S Waldhoff
- 15:00 - 15:20 S52.08 The economic cost of climate change – loss of value of European forestland as a consequence of not mitigating climate change
Marc Hanewinkel (Germany), NE Zimmermann, DA Cullmann
- 15:20 - 15:30 Discussion

15:30 - 16:00

Coffee Break

11:00 - 12:30 S53A

Hall B - Room X

Session 53 - Role of Media in Contributing in Combating Climate Change Part I

Chair: Dr Max Boykoff, University of Oxford

- 11:00 - 11:05 Introduction
Max Boykoff (UK)
- 11:05 - 11:15 S53.01 Competition and getting past the boss
Paul Ray Beck Brown (UK)
- 11:15 - 11:25 S53.02 The cultural politics of climate change: focusing on mass media
Maxwell Boykoff (UK)
- 11:25 - 11:35 S53.03 Communicating about global climate change...persuasively
Sharon Dunwoody (USA)
- 11:35 - 11:45 S53.04 Web 2.0: friend or foe?
Olive Heffernan (UK)
- 11:45 - 11:55 S53.05 The evolving role of Southeast Asian media in climate change
Imelda Abano (Philippines)
- 11:55 - 12:05 S53.06 Challenges in climate change reporting, experience from mainland Southeast Asian media
Piyaporn Wongruang (Thailand)
- 12:05 - 12:15 S53.07 Transforming the role of the media in combating climate change in Africa
Patrick Luganda (Uganda)
- 12:15 - 12:30 Discussion

12:30 - 14:00

Lunch Break

Thursday, 12 March 2009

14:00 - 15:30 S53B

Hall B - Room X

Session 53 - Role of Media in Contributing in Combating Climate Change Part II

- 14:00 - 14:10 S53.08 Media coverage of climate change in the US and Brazil: understanding convergences and divergences in light of socio-political contexts and identifying policy implications
Myanna Lahsen (Brazil)
- 14:10 - 14:20 S53.09 The problem with supply-side science
Naomi Oreskes (USA)
- 14:20 - 14:30 S53.10 Why climate-change skepticism is so prevalent in the USA: the success of conservative think tanks in promoting skepticism via the media
Riley Dunlap (USA)
- 14:30 - 14:40 S53.11 The effects of journalistic imbalance on scientific imbalance: special interests, scientific consensus and global climate disruption
William Freudenburg (USA)
- 14:40 - 14:50 S53.12 European media discourses and the governance of climate change
Anabela Carvalho (Portugal)
- 14:50 - 15:00 S53.13 Reducing greenhouse gases: the media challenge
James Kanter (Belgium)
- 15:00 - 15:10 S53.14 Exploring the media framing of carbon capture and storage and its influence on public perceptions
Sarah Mander (UK), R Wood, C Gough
- 15:10 - 15:30 Discussion

15:30 - 16:00

Coffee Break

11:00 - 12:30 S54A

Hall B - Room S

Session 54 - The Role of non Nation State Actors (Cities, NGOs, Business) in Combating Climate Change Part I

Chair: Dr Aled Jones, Deputy Director, University of Cambridge Programme for Industry

- 11:00 - 11:20 S54.01 Participation of community-based stakeholders in the CDM project cycle in China
Joakim Nordqvist (Sweden), E Mühlhäuser
- 11:20 - 11:40 S54.02 Volunteers as the entry point to climate change adaptation at community level
Andreas G Koestler (Norway), A Torbjørnsen, A-M Austenå
- 11:40 - 12:00 S54.03 The limits of participatory democracy for the fight against climate change
Stéphane La Branche (France)
- 12:00 - 12:30 Discussion

12:30 - 14:00

Lunch Break

14:00 - 15:30 S54B

Hall B - Room S

Session 54 - The Role of non Nation State Actors (Cities, NGOs, Business) in Combating Climate Change Part II

- 14:00 - 14:20 S54.04 Paving the way for a new development path: an analysis of transnational corporations and carbon lock-in
Vanessa Pena (UK)
- 14:20 - 14:40 S54.05 Collaborative emission reduction in regional Australia: Maine's power
Peta Ashworth (Australia), D Bridgfoot, J Gardner, S Rooney
- 14:40 - 15:00 S54.06 Transnational climate governance: assessing the performance of non-state driven mitigation schemes
Philipp Pattberg (The Netherlands)
- 15:00 - 15:30 Discussion

15:30 - 16:00

Coffee Break

Thursday, 12 March 2009

11:00 - 12:30 S55A

Hall B - Room H

Session 55 - Resources in a Changing Climate: Building Collaboration and Avoiding Conflict Part I

Chairs: Professor Johan Rockström, University of Stockholm and Executive Director at Stockholm Environment Institute & Dr Tariq Banuri, Senior Researcher at Stockholm Environment Institute

- 11:00 - 11:20 S55.01 A game theoretic approach to climate negotiation
Ekko van Ireland (The Netherlands)
- 11:20 - 11:40 S55.02 Stringency of climate targets
Paul Baer (USA)
- 11:40 - 12:00 S55.03 Integrated development and climate network: climate and development
Munir Akram (USA)
- 12:00 - 12:30 Discussion

12:30 - 14:00 Lunch Break

14:00 - 15:30 S55B

Hall B - Room H

Session 55 - Resources in a Changing Climate: Building Collaboration and Avoiding Conflict Part II

- 14:00 - 14:20 S55.04 Civic exchange: menu or recipe
Christine Loh (PR China)
- 14:20 - 14:40 S55.05 Government of Korea: menu or recipe
Rae Kwon Chung (South Korea)
- 14:40 - 15:00 S55.06 UN: policy timing
Tariq Banuri (Sweden)
- 15:00 - 15:30 Discussion

15:30 - 16:00 Coffee Break

11:00 - 12:30 S56A

Hall B - Room Y

Session 56 - Human Migration - Geopolitical Conflicts Part I

Chair: Professor Ole Wæver, University of Copenhagen

- 11:00 - 11:15 S56.01 Climate change impacts on migration: conflict and cooperation in the Mediterranean
Hans Günter Brauch (Germany)
- 11:15 - 11:30 S56.02 Social vulnerability and geopolitical conflicts due to socio-environmental migration in Mexico
Ursula Oswald Spring (Mexico)
- 11:30 - 11:45 S56.03 Migration: climate adaptation or failure to adapt? Findings from a global comparative field study
Koko Warner (USA)
- 11:45 - 12:30 Discussion

12:30 - 14:00 Lunch Break

Thursday, 12 March 2009

11:00 - 12:30 S56b

Hall B - Room Y

Session 56 - Human Migration - Geopolitical Conflicts Part I

- 14:00 - 14:15 S56.04 IPCC and the climate-conflict nexus
Nils Petter Gleditsch (Norway), R Nordås
- 14:15 - 14:30 S56.05 Climate change, urban vulnerability and disasters: a preliminary analysis of selected Nigerian cities
Felix Olorunfemi (Nigeria), A Gbadegesin, U Raheem
- 14:30 - 14:45 S56.06 The meaning and function of European discourses on climate security
Julia Trombetta (The Netherlands)
- 14:45 - 15:00 S56.07 Climate-induced instabilities and conflicts
Jürgen Scheffran (USA)
- 15:00 - 15:30 Discussion

15:30 - 16:00

Coffee Break

11:00 - 12:30 S57B

Hall B - Room F

Session 57 - Cultures, Values & World Perspectives as Factors in Responding to Climate Change Part II

Chairs: Professor Karen O'Brien, University of Oslo & Professor Thomas Heyd, University of Victoria

- 11:00 - 11:05 Introduction
- 11:05 - 11:15 S57.07 Indigenous peoples of the Sierra Nevada de Santa Marta-Colombia: local ways of thinking climate change
Astrid Ulloa (Colombia)
- 11:15 - 11:25 S57.08 The sentinel key role of indigenous peoples in the assessment of climate change effects on tropical forests
Edmond Dounias (France)
- 11:25 - 11:35 S57.09 Gone the bull of winter: grappling with the cultural implications of and anthropology's role(s) in global climate change
Susan Crate (USA)
- 11:35 - 11:45 S57.10 Bad weather or stricter standards - sources of knowledge in climate adaptation?
Sunniva Tøsse (Norway)
- 11:45 - 12:10 Discussion
- 12:10 - 12:36 S57.11 Climate change: the ethical dimension (Video Presentation)
Robin Attfield (UK)

12:30 - 14:00

Lunch Break

Thursday, 12 March 2009

14:00 - 15:30 S57C

Hall B - Room F

**Session 57 - Cultures, Values & World Perspectives as Factors
in Responding to Climate Change Part II**

- 14:00 - 14:05 Introduction
- 14:05 - 14:15 S57.12 Procrastination in climate policy: metaphysics vs. decisions in the wild
Bertrand G Guillaume (France)
- 14:15 - 14:25 S57.13 Understanding the role of culture in determining risk from natural hazards
Lisa Schipper (Thailand), *J Dekens*
- 14:25 - 14:35 S57.14 Climate change and the re-invigoration of the public sphere: issues, methodologies and the way(s) forward
Kersty Hobson (Australia)
- 14:35 - 14:45 S57.15 Ignorance and vulnerability: beliefs about stability and the occurrence of 'radical surprise'
Christian Kuhlicke (Germany)
- 14:45 - 14:55 S57.16 Warming up the climate change debate: a challenge to policy based on adaptation
Andrea Nightingale (UK)
- 14:55 - 15:05 S57.17 Human agency and the anatomy of climate change adaptation strategies in the Arctic
Frank Sejersen (Denmark)
- 15:05 - 15:30 Discussion

15:30 - 15:50

Coffee Break

15:50 - 17:10

Plenary Hall - Auditorium A

Closing Session

Chair: Professor Katherine Richardson, University of Copenhagen

Confirmed Speakers

Professor Katherine Richardson, University of Copenhagen

Professor Dan Kammen, University of California at Berkeley

Professor Lord Nicholas Stern, London School of Economics & Political Science (LSE)

Professor Jane Lubchenco, Nominated to be Head of National Oceanic and Atmospheric Administration, USA

Professor Stefan Rahmstorf, Postdam Institute for Climate Impact Research

Mr Anders Fogh Rasmussen, Prime Minister, Denmark

17:10 - 17:30

Closing Ceremony with Entertainment by Rasmus Lyberth & Band