Detailed Oral Programme with Timeframe

Tuesday, 10 March 2009

10:00 - 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 Professor Maciej Nowicki , Minister of Environment, Republic of Poland 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 , Postdam Institute for Climate Impact Research
12:00 - 12:30		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	for the future
15:15 - 15:30	S01.02	John Church (Australia), N White, C Domingues, J Gregory, K Steffen 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	Sea level change as an indicator of cryosphere instabilities <i>Kurt Lambeck</i> (<i>Australia</i>)
16:00 - 16:15	S01.05	Reassessment of the potential contribution to sea level from a collapse of the West Antarctic Ice Sheet
16:15 - 16:30	S01.06	Jonathan Bamber (UK), R Riva, B Vermeersen 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
16:30 - 17:00		Coffee Break
17:00 - 18:30	S01B	Hall B - Room D
17:00 - 17:15	S01.07	Session 01 - Cryosphere, Instabilities, Sea Level Rise Part II Ice mechanical properties of the Larsen C ice shelf from in-situ geophysical measurements and implications for shelf stability
17:15 - 17:30	S01.08	Bernd Kulessa (UK), E King, D Jansen, A Luckman, P Sammonds 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	
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*

Tuesday, 10 March 2009 15:00 - 16:30 S02A

Hall B - Room K

13.00 - 10.30	302 A	Han D - Koom 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 <i>David Stainforth (UK), L Smith</i>
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 <i>Igor Esau (Norway)</i>
16:15 - 16:30	S02.06	High resolution regional climate change modelling in CECILIA Project - climate change signal in central and Eastern Europe <i>Tomas Halenka</i> (<i>Czech Republic</i>), <i>J Miksovsky</i> , <i>M Belda</i> , <i>P Huszar</i>
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 <i>Linda Mearns on behalf of NARCCAP Team (USA)</i>
17:15 - 17:30	S02.08	A multi-member, high-resolution, transient simulation of 20th and 21st century climate in the United States
17:30 - 17:45	S02.09	Noah Diffenbaugh (USA), M Ashfaq 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 <i>Neil MacKellar (Denmark), S Yang, J Olesen</i>
18:00 - 18:15	S02.11	Modelling yield distribution as affect by extreme events Marco Moriondo (Italy), M Bindi, N Lugeri
18:15 - 18:30		Discussion
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 <i>Ruth Curry</i> (<i>USA</i>)
!5:15 - 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 <i>Vincenzo Artale (Italy), S Marullo, R Santoleri</i>
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

Tuesday, 10 March 2009 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 <i>Gregory Johnson (USA)</i>
17:15 - 17:30	S03.07	Changes in the Arctic atmosphere-ice-ocean system
17:30 - 17:45	S03.08	<i>Igor Polyakov (USA)</i> Why is the response of European climate to a collapse of the Atlantic meridional overturning circulation relatively small?
17:45 - 18:00	S03.09	<i>Wilco Hazeleger</i> (<i>The Netherlands</i>), A Laurian, S Drijfhout, B van den Hurk Review of ocean temperature, salinity and oxygen changes in the Pacific and subtropical southern hemisphere
18:00 - 18:15	S03.10	<i>Lynne D Talley (USA)</i> Stability of the interaction between the North Atlantic THC and its key source: the Nordic Seas
18:15 - 18:30		Bogi Hansen (Faeroe Islands)H Hátún, S Østerhus, D Quadfasel, S Jónsson, H Valdimarsson, B Turrell, S Hughes, B Berx, T Sherwin 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 <i>Ruth DeFries</i> (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
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
18:15 - 18:30	S04.10	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 Quantifying and ranking vulnerabilities in the carbon-climate-human system Michael R Raupach (Australia), N Gruber, P Ciais, PJ Rayner Discussion

Tuesday, 10 March 2009 15:00 - 16:35 S05A

Hall R - R

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 <i>Rupert Klein (Germany)</i>
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 <i>Victor Brovkin (Germany), M Claussen</i>
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 <i>Malte Meinshausen</i> (<i>Germany</i>), <i>B Hare, K Frieler, J Nabel, K Markmann, M Schaeffer,</i>
17:30 - 17:45	S05.08	<i>J Rogelj</i> Setting cumulative emissions targets to reduce the risk of dangerous climate change
17:45 - 18:05	S05.09	<i>Kirsten Zickfeld (Canada) M Eby, HD Matthews, AJ Weaver</i> Invited Paper : From cost-optimal emissions to impacts of greenhouse gases: closing the loop in earth system modelling <i>Hermann Held (Germany)</i>
18:05 - 18:30		Discussion
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 <i>Andrew Weaver (Canada), P Clark, E Brook, E Cook, T Delworth, J McGeehin, K Steffen</i>
15:30 - 15:45	S06.02	Multiple West Antarctic ice sheet retreats could explain southern warmth in recent interglacials
15:45 - 16:00	S06.03	Phil Holden, N(UK), Edwards, E Wolff 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
16:15 - 16:30	S06.05	<i>Trevor James Popp (Denmark), JWC White</i> Slowing down as an early warning signal for abrupt climate change <i>Marten Scheffer (The Netherlands), V Dakos, EH van Nes</i>
16:30 - 17:00		Coffee Break

Tuesday, 10 March 2009

17:00 - 18:30		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 <i>Kerry H Cook (USA)</i>
17:30 - 17:45	S06.07	Processes associated with the fast warming rate of the Southern Hemisphere midlatitude ocean
17:45 - 18:00	S06.08	Wenju Cai (Australia), T Cowan 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
15:45 - 16:00	S07.04	<i>Julian Sachs & Mark Stege (Marshall Islands), T Keju</i> High summer rainfall during the warm Early Pleistocene in the southern hemisphere: analogue for future greenhouse climates? <i>JM Kale Sniderman (Australia), N Porch</i>
16:00 - 16:15	\$07.05	Ecosystem response to abrupt climate change during the last glacial period in Western Europe - the Lacustrine Sequence of Les Echets
16:15 - 16:30	S07.06	<i>Barbara Wohlfarth (Sweden), L Ampel, D Veres, M Blaauw, F Preusser</i> The age of small prey: diet and climate variability at the Pleistocene-Holocene boundary and beyond <i>Emily Lena Jones (USA)</i>
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
17:15 - 17:30	S07.08	Jago Cooper (UK), M Peros 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
17:45 - 18:00	S07.10	<i>Niels Nørgaard-Pedersen</i> (<i>Denmark</i>), <i>N Mikkelsen</i> , <i>Y Kristoffersen</i> Hazard and rates of sea level rise: what can we learn from the last interglacial?
18:00 - 18:15	S07.11	Robert E Kopp (USA), FJ Simons, AC Maloof, D Kroon, S Jung, M Oppenheimer Dangerous ocean acidification
10.15 10.00	007.10	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)*

Tuesday, 10 March 2009 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** 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 Friborg (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

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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? <i>Myles Allen</i> (<i>UK</i>), <i>D Frame, C Huntingford, C Jones, J Lowe, M Meinshausen,</i> <i>N Meinshausen</i>
15:15 - 15:30	S09.02	Recent progress on detection and attribution of the water cycle <i>Peter Stott (UK)</i>
15:30 - 15:45	S09.03	Human-Modified Temperatures Induce Species Changes: Joint Attribution <i>Terry Root</i> (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 <i>Peter Gregory</i> (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)
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 aand 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 <i>Ambuj Sagar</i> (<i>India</i>)
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 <i>Jones Lewis Arthur (Ghana)</i>
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 <i>Narasimha Rao (USA)</i>
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? <i>Richard Starkey</i> (<i>UK</i>)

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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 <i>Susan Buckingham (UK), JE da Veiga</i>
17:15 - 17:30	S10.08	Methane and the natural debt: a combined index of responsibility <i>Kirk R Smith</i> (USA), JV Rogers
17:30 - 17:45	S10.09	Climate policy and the problem of competitiveness: border tax adjustments or integrated emission trading?
17:45 - 18:15	S10.10	Victoria Alexeeva-Talebi (Germany), A Löschel, T Mennel 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
18:15 - 18:30	S10.12	Johnson Nkem (Indonesia), M Idinoba, K Fobissie, A Awono, O Somorin Inequality and the missing common good: Challenges to climate adaptation in the new (neoliberal) world order Glenn Fieldman (USA)
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 aand 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 <i>Sanjay Vashist (India), M Alam, S Krishnaswamy, P Bahouth, V Bartra, T Athanasiou,</i> <i>S Singer, A Hill</i>
15:15 - 15:30	S11.02	Do equity preferences matter for climate negotiators? An experimental investigation Bodo Sturm (Germany), A Dannenerg, C Vogt
15:30 - 15:45	S11.03	Effort-sharing between regions in ambitious climate scenarios <i>Tommi Ekholm</i> (Finland), S Soimakallio, S Syri, N Höhne, S Moltmann
15:45 - 16:00	S11.04	Participation for developing countries: some criteria <i>Jyoti Parikh</i> (<i>India</i>)
16:00 - 16:15	S11.05	The health impacts of climate change will exacerbate inequities <i>Kristie Ebi</i> (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

Tuesday, 10 March 2009 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 <i>Benito Müller</i> (<i>UK</i>)
17:30 - 17:45	S11.09	An ethical approach to the international-level funding of adaptation to climate change <i>Marco Grasso (Italy)</i>
17:45 - 18:00	S11.10	Effects of the CDM on poverty eradication and global climate protection <i>Dirk Rübbelke</i> (<i>Norway</i>), <i>N Rive</i>
18:00 - 18:15	S11.11	Technology transfer and financing: issues for long term climate policy in developing countries <i>Tirthankar Mandal (India)</i>
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
15.45 16.00	\$12.02	Terry Barker (UK), SS Scrieciu, D Taylor Economic models and the rights of future concretions
15:45 - 16:00	S12.02	Economic models and the rights of future generations <i>Dominic Roser</i> (<i>Switzerland</i>)
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
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	\$12.04	COP 15 and the othics of alimete abange
17:00 - 17:15	512.04	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
	610 00	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

Tuesday, 10 March 2009 15:00 - 16:30 S13A Hall B - Room				
13.00 - 10.30	513A	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		
15:20 - 15:40	S13.02	<i>Christine Schleupner (Germany), UA Schneider</i> Survival of humankind rather than equity between humans and the rest of nature <i>Furio Cerutti (Italy)</i>		
15:40 - 16:00	S13.03	Framing natural resource management for climate resilience		
16:00 - 16:20	S13.04	Marilyn Averill (USA) Human happiness - friend or foe? Mikko Yrjönsuuri (Finland)		
16:20 - 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	S13.05	Extinction, suffering, and the cruciformity of the cosmos		
17:20 - 17:40	S13.06	<i>Kyle Van Houtan</i> (<i>USA</i>) Climate change and biodiversity preservation: a non-anthropocentric perspective <i>Anders Melin</i> (<i>Sweden</i>)		
17:40 - 18:00	S13.07	Environmental justice, human responsibility and equity between humans and nature <i>Catherine Larrère (France)</i>		
18:00 - 18:10 18:10 - 18:30		Wrap-up Dale Jamieson, USA Discussion		
15:00 - 16:30	S14A	Hall B - Room U		
15.00 - 10.50		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		
15:05 - 15:20	S14.01	Anthony J McMichael (Australia) A proactive public health approach to climate change: tackling the infectious disease challenge		
15:20 - 15:35	S14.02	Jan Semenza (Sweden), J Suk 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		
15:55 - 16:10	S14.05	<i>Philippe Grandjean</i> (USA), P Bjerregaard, P Weihe Climate change, food yields, food security, and health		
16:10 - 16:20		<i>Colin D Butler</i> (<i>Australia</i>) Physiological heat stress due to climate change: risk differentials exacerbates health		
10.10 10.20	51 1.00	inequities Tord Kjellstrom (Australia), B Lemke		
16:20 - 16:30	S14 07	Ouantifying regional heat stress increases in warmer and more humid climates		

- 16:30 S14.07 Quantifying regional near stress ind Steven Sherwood (USA), K Willet,
- **16:30 17:00** Coffee Break

Tuesday, 10 March 2009 17:00 - 18:30 S14B

16:30 - 17:00

Coffee Break

Hall B - Room U

Session 14 - Differential Effects of Climate Change on Human	1
Health and Well-Being Part II	

17:00 - 17:05		Introduction
17:05 - 17:20	\$14.08	Roberto Bertollini , WHO Headquarters Estimating the health burden of current and future extreme events
17.03 - 17.20	514.00	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
17:45 - 18:05	S14.11	Simon Gosling (UK), J Lowe, G McGregor Health adaptation choices at local and regional scales
18:05 - 18:20	S14 12	Kristie Ebi (USA)
10.03 - 10.20	514.12	Health and climate co-benefits: a survey of the mitigation landscape <i>Kirk R Smith</i> (USA)
18:20 - 18:30		Wrap-up overview
		Simon Hales, WHO Headquarters
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
		Chair: Projessor wim C Turkenburg, Director Copernicus Institute, Ofrecht Oniversity
15:00 - 15:05	S17.01	Introduction to the session on Carnon Capture Storage Wim C Turkenburg (The Netherlands)
15:05 - 15:25	S17.02	What have we learnt from CCS demonstration projects?
15 05 15 45	017.02	John Gale (UK), B Beck, T Dixon
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
16:05 - 16:25	S17.05	<i>Olav Bolland</i> (<i>Norway</i>) United States carbon sequestration regional partnerships
10.05 10.25	517.05	Bruce Lani (USA), S Plasynski, S Klara
16:25 - 16:30		Discussion

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Tuesday, 10 March 2009

15:00 - 16:30		Hall B - Room X
		Session 35 - Adapting Coastal Zone and Marine Resources to Climate Change Part I Chair:Professor Pier Vellinga, Wageningen University
15:00 - 15:15	S35.01	Adapting coastal zone and marine recourses to climate change and integrating human dimensions during natural disasters <i>Narendra Kumar Choudhary (India), LP Chaudhari, AG Bhole</i>
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
16:00 - 16:15	S35.05	Vulnerability assessment for development of strategic planning policies for Eastern Mediterranean Coast of Morocco <i>Allali Abdelkader (Morocco)</i>
16:15 - 16:30	S35.06	Ecosystem-based adaptation to climate change in coastal and marine areas Lynne Hale (USA), P Van Ejik, M Hatziols, 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 <i>Eduardo Zorita</i> (<i>Germany</i>), <i>H von Storch</i>
17:15 - 17:30	S35.08	Impact of climate change in coastal area: a vulnerability assessment of coastal inundation due to sea level rise in Central Java Indonesia <i>Muh Aris Marfai (Indonesia)</i>
17:30 - 17:45	S35.09	Decision support model to risk management and adaptation strategies to climate change in Buenos Aires coast, Argentina Leandro Fernandez (Argentina), J Karol, N Castillo
17:45 - 18:00	S35.10	A survey of stakeholders' response to heat waves in Adelaide, South Australia: a qualitative study <i>Peng Bi</i> (Australia), <i>R</i> van Iersel
18:00 - 18:15	S35.11	Adaptation to climate change in coastal zones: an analysis of the interventions to safeguard Venice and its lagoon <i>Stefania Munaretto (Italy)</i>
18:00 - 18:30		Discussion

Tuesday, 10 March 2009 15:00 - 16:30 S58A

15:00 - 16:30	S58A	Hall B - Room F
		Session 58 -National and Regional Development of Mitigation
		Policies Part I
		Chair:Dr Katrine Krogh Andersen, Special Advisor, Ministry of Climate & Energy
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	\$58.03	Reconciling energy insecurity and climate risks in China Guodong Sun (USA)
16:00 - 16:15	S58.04	
10.00 10.15	550.01	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
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

Tuesday, 10 March 2009 15:00 - 16:30 S57A

Hall B - Room F

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
15:15 - 15:25	S57.02	<i>Elizabeth L Malone (USA)</i> Encouraging climate change engagement through affective connections
15.15 - 15.25	337.02	Saffron O'Neill (UK), L Whitmarsh
15:25 - 15:35	\$57.03	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 <i>Judith Ford</i> (<i>The Netherlands</i>)
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 AC de Jonge (The Netherlands), HJC 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 <i>Jens Laustsen (France)</i>
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 <i>Michael Mehaffy</i> (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 & Pro Clausen, DHI	ofessor Torkil Jønch
17:00 - 17:05		Introduction by the Co-shairs	
17:05 - 17:15	S29.01	Adaptation actions to reduce water system vulnerability to climate char basin (Morocco)	nge in Tensift River
		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 l regional climate model ensemble	Nile Basin using a
		Carlo Buontempo (UK), JK Lørup, MA Antar, M Sanderson, MB Butts	s, E Palin,
17:35 - 17:45	S29.04	<i>R McCarthy, R Jones, R Betts</i> Adaptive measures for coping with increased floods and droughts in Ba	angladesh
17.55 17.15	527.01	Karsten Havnø (Denmark), A Malmgren Hansen	
17:45 - 17:55	S29.05	Impacts of climate variability and change on development and water se	ecurity 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 b	asins in Africa:
		evidence from the Nile Basin	
18:05 - 18:15	S29.07	<i>Marisa Goulden (UK), D Conway</i> Planning water resources development in the Western Cape of South A	frica: how do coping
10100 10110	227107	with development pressure, climate variability, and climate change infl	uence each other?
10.15 10.20		Daniël B Louw (South Africa), M Tadros, R Schulze, M Hellmuth, A G	reene, 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 <i>Niels Elers Koch</i> (<i>Denmark</i>)	
17:05 - 17:20	S38.02	A new climate for forests: a global assessment by the Expert Panel on a	adaptation
		of forests to climate change	
17:20 - 17:35	\$38.03	<i>Risto Seppälä (Finland)</i> Adapting European forests to climate change: resource modelling under	r climate change at
17.20 17.55	520102	high resolution based on inventory data	i ennine enninge ut
17.25 17.50	529.04	Gert-Jan Nabuurs (The Netherlands), I Van den Wyngaert, G Hengev	
17:35 - 17:50	S38.04	The Global Biodiversity Information Facility (GBIF): Infrastructure, st data and tools to forecast climate change impacts on forest ecosystems	andards, and access to
		Andy Jarvis (Denmark), N King, S Gaiji	
17:50 - 18:05	S38.05	Projecting forest fires in mountain forests under climate change	
18:05 - 18:20	S38.06	<i>Patrick Weibel</i> (<i>Switzerland</i>), <i>B Reineking</i> , <i>H Bugmann</i> Will the Danish forests stay adapted?	
18:20 - 18:30		<i>Erik Dahl Kjær</i> (Denmark), JK Hansen, UB Nielsen, LN Hansen, DC Discussion	Olrik
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

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 Geeenland runoff acceleration Sebastian H Mernild (UK)
11:00 - 11:15	S01.14	
11:15 - 11:30	S01.15	Greenland ice sheet seasonal speedup coupled with surface hydrology
11:30 - 11:45	S01.16	Andrew Shepherd (UK), S Palmer, P Nienow Arctic warming, Greenland Melt and Moulins
11:45 - 12:00	S01.17	<i>Konrad Steffen (USA), A Behar</i> The fate of permafrost in Greenland and Alaska: results from high-resolution transient climate simulations <i>Martin Stendel (USA), J Hesselbjerg Christensen, R Daanen, S Marchenko, V Romanovsky</i>
12:00 - 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 Angliua
13:45 - 14:15	S06.11	Invited Paper : Tipping points in the terrestrial biosphere <i>Peter Cox (UK)</i>
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 McNeall, C Jones, S

- Liddicoat, M Parry, S Raper
- 15:15 15:45 Coffee Break

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 aand 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? <i>Hans-Martin Füssel (Germany)</i>
11:00 - 11:15	S11.14	The clean development mechanism: striking a balance between environmental integrity, promoting sustainable development and economic efficiency <i>Christina Voigt (Norway)</i>
11:15 - 11:30	S11.15	International trade and forest sequestration as components of fair climate policy
	S11.16	<i>Glen Peters (Norway), G Marland, P Kauppi</i> Distributional choices in EU climate change policy: in search of a legal framework <i>Javier de Cendra de Larragan (The Netherlands)</i>
12:00 - 12:15 12:15 12:45		Discussion
12:15 - 13:45		Lunch Break
10:45 - 12:15	S16A	Hall B - Room QSession 16 - Integrating Economic Models and the Dynamicsof the Carbon Sinks Part IChair: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
11:05 - 11:25	\$16.02	Allison Thomson (USA), M Wise, K Calvin, L Clarke, R Sands, B Bond-Lamberty, S Smith, A Janetos, J Edmonds 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
11:25 - 11:45	S16.03	<i>Obersteiner</i> Hotspots for carbon offsets in agricultural landscapes: identifying threats, opportunities and policy responses to widespread reforestation
11:45 - 12:05	S16.04	Neville Crossman (Australia), P Butler, D Summers, B Bryan, J Ward Implications of carbon price dynamics and eligibility of mitigation options for U.S. Forestry and Agriculture Carbon Sinks
12:05 - 12:15		Adam Daigneault (USA), R Beach, B McCarl, D Adams, R Alig, G Latta 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 Hang Makiem $(N = Z = k = 1)$
14:05 - 14:25	S16.06	Thi Hong Nhung Nghiem (New Zealand) Carbon cycle uncertainty and CO2 mitigation cost
14:25 - 14:45	S16.07	Atsushi Kurosawa (Japan) 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

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
11:25 - 11:45 11:45 - 12:05	S17.08 S17.09	 Karen Lyng Anthonsen (Denmark), T Vangkilde-Pedersen, LH Nielsen 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 CO2 fixation by mineral matter; the potential of different mineralization routes
11.15 12.05	517.07	Ron Zevenhov (Finland)en, 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 <i>Andrea Ramirez Ramirez (The Netherlands), M van den Broel, H Groenenberg, F Neele, P Lako</i>
14:05 - 14:25	S17.11	Scaling-up Carbon Dioxide Capture and Storage (CCS) - from megatonnes to gigatonnes
14:25 - 14:45	S17.12	<i>Howard Herzog</i> (USA) Recent developments in public attitudes and acceptance of CCS: an overview of research activities and results in recent years <i>Peta Ashworth</i> (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 <i>David Reiner</i> (<i>UK</i>)
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 Manaager Anders Viksø-Nielsen, Novozymes Biofuels R & D
10:45 - 11:25	S18.01	Biomass for biofuels - the challenge and a possible way forward <i>Claus Felby</i> (Denmark), JR Porter, SK Rasmussen, JK Schjørring, T Hamborg Nielsen, Y Salumagi, WCT Willats
11:25 - 11:45	S18.02	Sakuragi, WGT Willats 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 <i>Audrey Lee (USA), B Sastri, C Difiglio, T Kaarsberg, T Alfstad</i>
12:25 - 12:30		Discussion

12:15 - 13:45 Lunch Break

13:45 - 15:15	S18B	Hall B - Room Y
		Session 18 - Potentials and Limitations of Biofuels Part II
13:45 - 14:05	S18.05	
14:05 - 14:25	S18.06	<i>Jérémie Mercier</i> (<i>UK</i>), A Gathorne-Hardy, Z Makuch Biotechnology enabling commercial biofuel production
1	210100	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 Bindslev, 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)
11:06 - 11:21	S19.02	<i>Erik Lundtang Petersen (Denmark)</i> 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 <i>Peter Lund</i> (<i>Finland</i>)
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
14:06 - 14:21	S19.06	Anthony Marchese (USA) Good or bad bioenergy? The validity of comparing biomass and biofuels using life cycle assessment
14:24 - 14:39	S19.07	Jeanette Whitaker (UK), K Ludley, S Ryder, R Rowe, J Chapman, G Taylor, D Howard 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

10:45 - 12:15		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 <i>Stephane Pouffary</i> (<i>France</i>), <i>CC Cheng</i> , <i>N Svenningsen</i>
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 <i>Jochen Harnisch (Germany)</i>
11:45 - 12:00	S20.08	Methodological challenges for energy efficiency improvement under the Clean Development Mechanism
12:00 - 12:15	S20.09	<i>Daisuke Hayashi</i> , (<i>Switzerland</i>), A Michaelowa 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 <i>Stefan Thomas</i> (<i>Germany</i>)
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 <i>Suzana Ribeiro</i> (<i>Brazil</i>), <i>A Abreu</i>
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 <i>Athanasios Dagoumas (UK), T Barker</i>
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 <i>Anca-Diana Barbu</i> (<i>Denmark</i>)
14:55 - 15:15	S20.15	Energy efficiency policies : a world-wide panorama by the World Energy Council <i>Didier Bosseboeuf (France)</i>
15:15 - 15:45		Coffee Break

Wednesday, 11 March 2009 10:45 - 12:15 S214

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
10.45 - 14.55	521.01	development
14:55 - 11:05	S21.02	Weifeng Li (Australia), D Prasad 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
11:15 - 11:25	S21.04	<i>Fabien Roques (France), O Sassi, J-C Hourcade, C Guivarch, H Waisman, R Crassous</i> The trajectories of new energy technologies in carbon constraint cases with the POLES world energy model
11:25 - 11:35	S21.05	Patrick Criqui (France), P Menanteau, S Mima 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
11:45 - 11:55	S21.07	<i>Eirik S Amundsen (Denmark), P Fristrup, JB Mortensen</i> GHG emissions and development: what if developing countries baselines were not so optimal?
11:55 - 12:15		Sandrine Mathy (France), C Guivarch 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 <i>Eigil Kaas (Denmark), A Baklanov, J Brandt, H Brønnum-Hansen, JH Christensen,</i> <i>A Cross K Karlsson M L Signagard Anderson T Signagard L September</i>
13:55 - 14:05	S21.09	A Groos, K Karlsson, M-L Siggaard-Andersen, T Sigsgaard, J Sørensen 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
14:15 - 14:25	S21.11	Guoquan Hu (PR China) 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 <i>Hongyuan Yu (PR China)</i>
14:35 - 14:45	S21.13	
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?
11:00 - 11:15	S22.02	Sylvia I Karlsson (Finland) The efficiency of simplicity - a comprehensive evolutionary perception of the earth can help to improve the management of subsystems Andreas Klaey (Switzerland)y, 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 <i>Nicola Dee</i> (<i>UK</i>)
11:45 - 12:00	S22.05	The role of institutional capacity development in making the CDM operational in developing countries
12:00 - 12:15		Karen Holm Olsen (Denmark), M Hinostroza 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 <i>Paul Isolo Mukwaya</i> (<i>Uganda</i>), <i>H Sengendo</i> , <i>C Basalirwa</i> , <i>T Otiti</i>
14:00 - 14:15	S22.07	Internal trading as a strategy for carbon mitigation
14:15 - 14:30	S22.08	Harsh Dhand (UK), S Doll, N Sethi, K Chaugul 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 <i>Eleftheria Vasileiadou</i> (the Netherlands), A Gandhi
14:45 - 15:00	S22.10	Copenhagen Plus: Complementing output oriented climate policy by input oriented approaches
15:00 - 15:15		Stefan Lechtenböhmer (Germany), H-J Luhmann 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 <i>Chair:Professor Warwick McKibbin, Australian National University</i>
10:45 - 11:05	S23.01	The cost-effectiveness of climate policy: beyond emissions trading <i>Barbara Buchner</i> (<i>France</i>), <i>R Baron</i>
11:05 - 11:25	S23.02	Expecting the unexpected: macroeconomic volatility and climate policy <i>Peter Wilcoxen (USA), W McKibbin, A Morris</i>
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
11:40 - 11:55	S23.04	James Randall Kahn (USA), AAF Rivas Considering price caps for climate policy
11:55 - 12:15		<i>Cédric Philibert (France)</i> Discussion
12:15 - 13:45		Lunch Break

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 <i>Christian Flachsland</i> (<i>Germany</i>), <i>R Marschinski</i> , <i>O Edenhofer</i>
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 <i>Cate Hight</i> (<i>France</i>), <i>M Hervé-Mignucci</i> , <i>B Leguet</i>
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 <i>Pete Smith</i> (<i>UK</i>)
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
11:55 - 12:15	S24.04	Steven Rose (USA), R Beach, C Li, W Salas, A Daigneault 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 <i>Jørgen E Olesen</i> (<i>Denmark</i>)
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 <i>Aleaxander Popp (Germany), H Lotze-Campen</i>
14:55 - 15:15	S24.08	Increasing efficiency of land use and phytomass conversion to mitigate climate change until 2050 <i>Arthur Riedacker (France)</i>
15:15 - 15:45		Coffee Break

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	\$25.01	Introduction Collaborative modeling initiative on REDD economics
10.50 - 11.02	525.01	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 merocemen
- 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? <i>Adrian Muller</i> (<i>Switzerland</i>)
11:45 - 12:05	S26.04	Energymark: changing Australians' behaviours through kitchen table discussions <i>Peta Ashworth (Australia), A-M Dowd</i>
12:05 - 12:25	S26.05	Lifestyle approach to climate mitigation: cross country empirical evidence <i>Joyashree Roy (India), S Pal</i>

12:15 - 13:45 Lunch Break

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 <i>Midori Aoyagi-Usui (Japan), Y Sampei</i>
14:05 - 14:25	S26.07	Climate risk perceptions and local experiences of the 2007 summer flooding: opportunities or obstacles to change? <i>Nicholas Pidgeon (UK), C Butler</i>
14:25 - 14:45	S26.08	Climate benefits of changing diet <i>Elke Stehfest</i> (<i>The Netherlands</i>), <i>L Bouwman</i> , <i>D van Vuuren</i> , <i>M den Elzen</i> , <i>B Eickhout</i> , <i>P Kabat</i>
14:45 - 15:15		Discussion
15:15 - 15:45		Coffee Break
10:45 - 12:15	S27 A	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 Morgan Bazilian (Ireland), H de Coninck, M Radka, S Nakhooda, W Boyd, I MacGill, A-L
11:35 - 12:00	S27.03	Amin, F von Malmborg, J Uosukainen, R Bradley, R Bradley 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
10.45 14.10	335 0 4	
13:45 - 14:10	S27.04	Top-down technological modelling of stabilisation pathways: UKERC scenarios for the UK to 2050 using E3MG-UK <i>Athanasios Dagoumas (UK), T Barker, S Scrieciu, S Stretton</i>
14:10 - 14:35	S27.05	Corporate climate technology strategies in response to international market-based climate policies - the case of the power sector
14:35 - 15:00	S27.06	<i>Karoline Rogge</i> (<i>Germany</i>), <i>M Schneider</i> , <i>V Hoffmann</i> , <i>T Schmidt</i> Energy and carbon emissions scenarios of China towards 2100 <i>Tao Wang</i> (<i>UK</i>), <i>J Watson</i>
15:00 - 15:15		Discussion

15:15 - 15:45 Coffee Break

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 <i>John Van Aardenne</i> (<i>Italy</i>), <i>F Dentener</i> , <i>R Van Dingenen</i> , <i>E Marmer</i> , <i>E Vignati</i> , <i>P Russ</i> , <i>L Szabo</i>
11:05 - 11:25	S28.02	
11:25 - 11:45 11:45 - 12:15	S28.03	
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 <i>Liaquat Husain (USA)</i>
		Achieving agreement and climate protection by mitigation of short- and long-lived greenhouse gases <i>Michael MacCraken</i> (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
10:45 - 11:00	S40.01	
11:00 - 11:15	S40.02	River Catchment in Tanzania
11:15 - 11:30	S40.03	
11:30 - 11:45	S40.04	
11:45 - 12:00	S40.05	<i>Luiz Firmino Pereira (Brazil), S Barreto</i> Water for life: the Rio Conchos (Mexico) lessons for climate change adaptation from better management of rivers for people/nature
12:00 - 12:15	S40.06	Eugenio Barrios (Mexico), A Rodriguez, M de la Maza, V Trueba

12:15 - 13:45 Lunch Break

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 <i>Jamie Pittock</i> (<i>Australia</i>)
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 <i>Marcus Moench (USA), A Dixit</i>
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

Session 44 - Filling In The Gaps Between IA, GCM, **Economic and ES Models Part I** Chair: Dr Rik Leemans, Wageningen University

Hall B - Room P

Hall B - Room P

10:45 -	10.55	Introduction
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 discpipelines
		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

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	\$11.06	Pagional sada habitat based unlargebility assessment of the natural approximations

- 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 Tõkei
- 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			
Session 45 - From Geo-Perturbation to Geo-Management Part i			
	Session 45 - From	treo-Permination to	t-eo-Management Part I

Chair: Professor Ken Caldeira, Stanford University

10:45 - 11:00	S45.01	Climate engineering: solution, curse, or chimera? <i>Ken Caldeira</i> (USA)
11:00 - 11:15	S45.02	Climate engineering as risk management
11:15 - 11:30	S45.03	<i>David Keith</i> (<i>Canada</i>) Impact intervention: regional geo-engineering as a complementary step to aggressive
		mitigation <i>Michael MacCracken (USA)</i>
11:30 - 11:45	S45.04	Earth system engineering: the art of dealing wisely with the planet Earth <i>Axel Kleidon (Germany), P Wilderer, R Weiler</i>
11:45 - 12:00	S45.05	Is geo-management a defensible response to climate change? An NGO perspective
12:00 - 12:15	S45.06	<i>David Santillo (UK)</i> 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 <i>Stephen Salter (UK)</i>
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?
14:15 - 14:25	S45.10	Daniel Lunt (UK), J Singarayer, A Ridgwell Tackling future climate change by leaf albedo bio-geoengineering
	~ . ~	Andrew Ridgwell (UK), J Singrayer, AL Hetherington, P Valdes
14:25 - 14:35	S45.11	Sensitivity of ocean acidification to geoengineered climate stabilization <i>Damon Matthews (Canada), K Caldeira, L Cao</i>
14:35 - 14:45	S45.12	Exploration of planetary geoengineering by seeding of boundary layer cloud systems in fully
		coupled climate system models <i>Philip John Rasch</i> (USA), J Latham, J Chen
14:45 - 14:55	S45.13	Carbon storage in the ocean; an ECOR review
14:55 - 15:05	S45.14	<i>Ian SF Jones (Australia)</i> Burying wood as a climate management strategy
	~ . = . =	Ning Zeng (PR China)
15:05 - 15:15	\$45.15	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

10:45 - 12:30	546A	Hall B - Room 1
		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
10:55 - 11:05	S46.01	Carol Turley (UK) 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 <i>Tatjana Ilyina (USA), R Zeebe, E Maier-Reimer, C Heinze</i>
11:25 - 11:35	S46.04	Ocean acidification: humanity and the environment in geologic time <i>Ken Caldeira</i> (<i>USA</i>)
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 <i>Tatjana Ilyina (USA), R Zeebe, P Brewer</i>
12:05 - 12:15	S46.08	The low CO2 glacial ocean as a reverse paleo-analog for the future high CO2 ocean <i>Christoph Heinze</i> (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 <i>Paulo Artaxo (Brazil)</i>
14:05 - 14:15	S46.11	A global perspective on soil acidification in terrestrial ecosystems
14:15 - 14:25	S46.12	<i>Kevin Hicks</i> (<i>UK</i>), <i>J Kuylenstierna</i> Acidification and eutrophication of temperate North American and European ecosystems from atmospheric deposition <i>Jill S Baron</i> (<i>USA</i>), <i>WD Bowman</i> , <i>H Sverdrup</i> , <i>CT Driscoll</i> , <i>JT Stoddard</i> , <i>MD Hartman</i>
14:25 - 14:35	S46.13	Acid deposition in Asia; current situation and prospects for the future Henning Rhode (Sweden)
14:35 - 15:15		Discussion
15:15 - 15:45		Coffee Break

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 & Professor Louise Fresco, University of Amsterdam
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 <i>Andrew Jarvis</i> (<i>Denmark</i>), <i>S Gaiji</i> , <i>N King</i> ,
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 <i>Fulai Liu</i> (<i>Denmark</i>)
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
14:45 - 15:15		Silvia Huber (The Netherlands), R Fensholt, K Rasmussen, SR Proud, A Anyamba 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 <i>Frank Biermann</i> (<i>The Netherlands</i>)
11:05 - 11:25	S48.02	Kyoto2 - an effective, efficient and equitable framework for a new Climate Agreement <i>Oliver Tickell</i> (<i>UK</i>)
11:25 - 11:45	S48.03	Post-2012 Options Beyond Climate Change: Using Inter-Linkages with Trade Issues to Break Deadlocks <i>Fariborz Zelli (UK), H van Asselt</i>
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

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 The importance of being partners: exploring horizontal and vertical interplay in urban 14:25 - 14:45 S48.07 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 **Coffee Break** 15:15 - 15:45 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 Nicola Patmore (UK), R Muir-Wood, C Herweijer 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**

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
- 11:50 12:15Solid4Adaptive approaches for long-term enhate policyJürgen Scheffran (USA)
- 12:15 13:45 Lunch Break

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Session 50 - Enabling Long Term Climate Policy Part II

Hall B - Room F

Plenary Hall - Auditorium A

- 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 Siege, 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 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

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 Jønch Clausen, DHI
11:00 - 11:05 11:05 - 11:15	S29.08	Introduction by the Co-shairs Evaluating the benefits of adapting to changing flood hazard in Europe
11:15 - 11:25	S29.09	<i>Luc Feyen</i> (<i>Italy</i>), <i>R Dankers, K Bódis</i> Quantifying the effects of future climate change on groundwater and stream discharge in Denmark
11:25 - 11:35	S29.10	<i>Lieke van Roosmalen (Denmark), TO Sonnenborg</i> Future European drought regimes under mitigated and un-mitigated climate change <i>Rachel Warren (UK), R Yu, T Osborn, S de la Nava Santos</i>
11:35 - 11:45	S29.11	Climate change and the changing frequency of floods and droughts: scenario analysis of risk and adaptation in Europe
11:45 - 11:55	S29.12	Joseph Alcamo (Germany) 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 14:05 - 14:10		Introduction by the Co-shairs Dialogue on adaptation to Climate Change for land and water management – a contribution to the UNFCC and COP 15 processes
14:10 - 14:20	S29.13	<i>Member of Danish Ministry of Foreign Affairs</i> Technical knowledge and democratic decision-making: building adaptive capacity of fresh water systems in Brazil
14:20 - 14:30	S29.14	Maria Carmen Lemos (USA), A Bell, N Engle, R Formiga-Johnsson, D Nelson 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
14:40 - 14:50	S29.16	David Feldman (USA), H Ingram 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 <i>Alexander Pfaff (USA), MA Velez, K Broad, J Hercio, R Taddei</i>
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 <i>Georgina Mace (UK), W Foden</i>
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
11:45 - 12:00	S30.04	Sandra Lavorel (France), J-P Sarthou, W Thuiller Coral reefs and rapid climate change: impacts, risks and implications for tropical societies Ove Hoegh-Guldberg (Australia), T Hughes, K Anthony, K Caldeira, M Hatziolos, 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 <i>Tetsukazu Yahara (Japan), M Donoghue, A Hendry</i>
14:15 - 14:30	S30.07	The impacts of climate change on ecosystem services: the case of disrupted disease regulation in South-Western Amazonia
14:30 - 14:45	S30.08	Manuel Cesario (Brazil), R Rangel Cesario, M Andrade-Morraye Climate, ecosystem services and social systems
14:45 - 15:00	S30.09	Thomas Elmqvist (Sweden), C Perrings Summary
15:00 - 15:30		Harold Mooney (USA) 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 <i>Will Steffen (Australia), A Burbidge, L Cherry, B Edgar, L Hughes, R Kitching, D</i>
11:20 - 11:40	S31.02	<i>Lindenmayer, J Mummery, W Musgrave, M Stafford Smith, P Werner</i> Climate change adaptation and mitigation: synergisms, antagonisms and trade-offs for
11.20 - 11.40	551.02	biodiversity Pam Berry (UK), J Paterson, M Cabeza, A Dubuis, A Guisan, L Jäättelä, I Kühn, M Musche,
11:40 - 12:00	S31.03	<i>J Piper, E Wilson</i> Redefining in situ and ex situ conservation of useful plant diversity in an era of climate change
12:00 - 12:20	S31.04	Toby Hodgkin (Italy), L Snook, M Bellon, E Frison Enhancing the adaptive capacity of biodiversity through implementation of the convention on biological diversity Jaime Alexandra Webbe (Canada), A Djoghlaf
12:20 - 12:45		Discussion including posters
12:30 - 14:00		Lunch Break

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11100 - 15:30 S31B Hall B - Room P				
14.00 - 15.50	0010	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		
14:40 - 15:00	S31.07	Donald Developing a systematic regional approach for biodiversity conservation in South East Asia: a social-ecological perspective		
15:00 - 15:20	S31.08	Craig Miller (Australia), R Lasco, D Hilbert, L Tandug, M Dunlop, T Jovanovic Global warming is eroding the resilience of kelp beds Peter Staehr (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 - Costing adaptation in Developed Countries, and Conceptual Issues		
		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 <i>Stephane Isoard</i> (<i>Denmark</i>)		
11:30 - 11:45	\$32.03	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		
12:00 - 12:15	\$32.05	Miguel Esteban (Japan), C Webersick, T Shibayama To adapt or not to adapt? Towards local costing of climate change impacts for decision making in adaptation		
12:15 - 12:30	S32.06	Alistair Hunt (UK), T Taylor Private adaptation of critical infrastructures is inefficient Klaus Eisenack (Germany)		

12:30 - 14:00 Lunch Break

14:00 - 15:30	S32B	Hall B - Room N
		Session 32 - Economic Costs of Adapting and not Adapting to Climate Change Part II - Developing countries: Costing and Funding Adaptation
14:00 - 14:15	\$32.07	Regional total climate change costs for different burden sharing regimes and concentration targets
14:15 - 14:30	S32.08	Michel den Elzen (The Netherlands), A Hof, D van Vuuren Climatic variablity and its impacts on agricultural income and households' welfare in southern and Northern Nigeria Abayomi Oyekale (Nigeria)
14:30 - 14:45	S32.09	Climate change and Ethiopia
14:45 - 15:00	S32.10	Sherman Robinson (Denmark), C Arndt, H Ahmed, D Willenbockel 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 <i>David Dodman</i> (<i>UK</i>)
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 adaption to climate change in the United States: are metropolitan planning organizations responding? <i>Eric Lindquist (USA)</i>
11:45 - 12:00	S33.04	Joint-action for urban resilience: Linking national and local climate change strategies <i>Cecilia Njenga (Kenya), R Tuts</i>
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
14:30 - 14:45	S33.08	<i>Hilda Blanco</i> (USA), S Pauleit, G Jørgensen, TA Carstensen, J Handley 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 <i>Karen C Seto</i> (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 <i>Shuaib Lwasa</i> (Uganda), M Tenywa, GJ Majaliwa Mwanjalolo, H Sengendo, G Prain
15:00 - 15:15	\$33.10	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 20	000 11	

15:15 - 15:30 S33.11 Adaptation in the transport sector: the constraining effect of actor-interdependencies *Esther Hoffmann* (*Germany*), *D Reckien, K Eisenack*

11:00 - 12:30		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
11:15 - 11:30	S34.02	Karen C Seto (USA), RK Kaufmann, A Schneider, Z Liu, L Zhou, W Wang 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 Ihemegbulem
11:30 - 11:45	S34.03	Scenarios of agricultural land-use change in Africa under changing climate conditions <i>Rüdiger Schaldach</i> (<i>Germany</i>), 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 <i>Nathan Moore</i> (USA), <i>G Alagarswamy</i> , <i>B Pijanowski</i> , <i>P Thornton</i> , <i>J Olson</i> , <i>B Lofgren</i> , <i>J Andresen</i> , <i>D Campbell</i>
12:00 - 12:15	S34.05	Climate change, land use policies, and adaptation in Alxa region, inner Mongolia, China
12:15 - 12:30	S34.06	<i>Henry Neufeldt</i> (<i>UK</i>) El Niño and land-use change – an attempt to simulate farmers' reactions on climate variability and climate change in Indonesia <i>Joerg A Priess (Germany)</i>
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 <i>Prakash Chandra Tiwari</i> (<i>India</i>)
14:15 - 14:30	S34.08	Mapping and modelling ecosystem services in land systems Richard Aspinall (UK), E Milne
14:30 - 14:45	\$34.09	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 <i>Eric Koomen</i> (<i>The Netherlands</i>), <i>P-D Nga</i>
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 Dagmar Schröter, Environmental Impact Assessment and Climate Change Group of the Umweltbundesamt, Austria
11:00 - 11:10		Introduction
11:10 - 11:13	S36.01	<i>Dagmar Schröter</i> (<i>Austria</i>) Developing new adaptation strategies to climate change in Ghana: the potential of underutilized bamboo resources
11:13 - 11:16	S36.02	Stephen Lartey Tekpetey (Ghana), GA Quartey, R Tekpetey Institutional factors for adaptation to climate change in the Congo Basin forest of Cameroon H Carolyn Peach Brown (Canada)
11:16 - 11:19	S36.03	Social networks and rural adaptation to climate change: a Bangladesh case study <i>Fiona Rotberg</i> (<i>Sweden</i>)
11:19 - 11:22	S36.04	Drought and flood in Korhogo (Côte d'Ivoire : from their manifestation to population perception and coping strategies.
11:22 - 11:25	\$36.05	Brama Koné (Ivory Coast), NK Boko, E Kouakou, GR Koffi, PV Houenou, G Cissé A participatory approach for defining response strategies to reduce risk and vulnerability from flooding in a changing climate
		Valentina Giannin (Italy)i, C Giupponi, A Allan, A Rieu- Clarke, M Clark, C Hutton, L Ceccato
11:25 - 11:28	S36.06	Linking knowledge systems for rural livelihoods adaptation under uncertainty: drying and warming in Andean ecosystems
11:28 - 11:31	S36.07	<i>Corianne Valdivia</i> (USA), JL Gilles, A Seth, J Thiebault, E Jiménez, M García, E Yucra A resilience check – enhancing adaptive capacities in Sub-Sahara African agriculture <i>Chinwe Ifejika Speranza</i> (<i>Germany</i>)
11:31 - 11:34	S36.08	Vulnerability and adaptation to water scarcity in the European Alps Stephane Isoard (Denmark), S McCallum, B Hain
11:34 - 11:37	S36.09	Embedding climate change into evaluation frameworks Merylyn McKenzie Hedger (UK), T Mitchell, J Leavy, L Horrocks, M Greeley
11:37 - 11:40	S36.10	Goal conflicts in adaptation to climate change: a Swedish report <i>Karin Edvardsson Björnberg (Sweden)</i>
11:40 - 11:43	S36.11	Measuring adaptation through building scientific capacity: a survey of investigators from the AIACC project Hassan Virji (USA), J Padgham
11:43 - 12:03		Rotating through room, look at visual props, network
12:03 - 12:30		General Discussion
12:30 - 14:00)	Lunch Break

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)
14:00 - 14:10		Theme 1. Targeting Adaptation in Processes of Social Learning Introduction
14:10 - 14:12	S36.12	<i>Tom E Downing</i> (Sweden) Measuring adaptation as a socio-institutional process in targeting climate adaptation <i>Ian Tellam</i> (The Netherlands), J Gonzales, AR Subbiah, A Nishat, T Devissher, P O'Donoghue, K Lonsdale, S Bharwani, V Mathur, W Kojo Bonzu, L Gladin
14:12 - 14:14	S36.13	Measuring adaptation: comparing possible outcomes or describing social learning? Jochen Hinkel (Germany)
14:14 - 14:16	S36.14	Towards indicators for adaptation: policy needs, possible approaches and practical solutions <i>Lisa Horrocks (UK), A Hunt</i>
14:16 - 14:20 14:20 - 14:30		Questions Listing principles
14:10 - 14:13	S36.15	Theme 2. Linking Poverty to Enhancing Adaptation An assessment of channels to support climate adaptation by the poorest
14:13 - 14:16		Simon Anderson (UK), T Geoghegan, J Ayers Adaptive capacity of the poor
14:16 - 14:20		Alexandre Magnan (France), B Garnaud, R Billé Questions
14:20 - 14:30		Listing principles
14:10 - 14:13	S36.17	Theme 3. Governance and Science-Policy Interfaces Decision makers, scientists and modellers: collaborative approaches to enhancing adaptive capacity <i>David Stainforth (UK), F Zermoglio, Mark Tadross, T Downing</i>
14:13 - 14:16	S36.18	A state of the art of governance literature on adaptation to climate change: towards a research agenda
14:16 - 14:20		Kim Van Nieuwaal (The Netherlands), P Driessen, T Spit, K Termeer Questions
14:20 - 14:30 15:10 - 15:30		Listing principles 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 Scotish 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 <i>Martin Parry</i> (<i>UK</i>)
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 <i>Esbern Friis-Hansen (Denmark), O Stage, C Aben</i>
11:45 - 12:00	S37.03	Modeling farmers' adaptation to climate change - integrating a biophysical and an economic model
12:00 - 12:15	S37.04	Robert Finger (Switzerland) 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? <i>Anita Wreford (UK), NAdger</i>
14:15 - 14:30	S37.06	Managing future agricultural production in a variable and changing climate
14:30 - 14:45	S37.07	Steven Crimp (Australia), M Howden, A Laing, D Gaydon, A Gartmann, P Brown 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,
14:45 - 15:30		<i>L Willocquet</i> 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 <i>Marcus Lindner</i> (<i>Finland</i>), <i>M Kolström</i>
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 nods in the web of life <i>Miguel Leal (USA)</i>
11:45 - 12:00	S38.10	0
12:00 - 12:15	S38.11	Adaptation, non-timber forest products and rural livelihood: an empirical study in West Bengal, India <i>Jyotish Prakash Basu (India)</i>
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 <i>Viktar Kireyeu (Hungary), A Shkaruba</i>
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 <i>Piotr Paschalis-Jakubowicz (Poland)</i>
15:15 - 15:30		Discussion
15:30 - 16:00		Coffee Break

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11:00 -12:30		Hall B - Room G
11.00 -12.30	537A	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 <i>Ilona Banaszak</i> (<i>Slovak Republic</i>), <i>P Matczak, A Chorynski</i>
11:15 - 11:30	S39.02	
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 <i>Katherine Anne Daniell</i> (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 <i>Andrea Marcello Bassi (USA)</i>
14:15 - 14:30	S39.08	Climate change adaptation with multiple-perspective based games Pieter Valkering (The Netherlands)
14:30 - 14:45	\$39.09	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
14:45 - 15:00	S39.10	<i>Konzelmann, P Lagos, M Rohrer, D Sietz, W Silverio, M Zappa</i> "One size fits all?" Can the IPCC serve as blueprint for scientific advice on adaptation to climate change? <i>Silke Beck (Germany), C Goerg</i>
15:00 - 15:15	\$39.11	From knowledge to action? Either via science as usual or 'just do it'? <i>Peter Moll (Germany)</i>
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 Chairs:Head of Centre John Christensen, UNEP Risø Centre on Energy, Climate and Sustainable Development & Dr Fatima Denton, Team Leader, Climate Change Adaptation in Africa (CCAA)
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 <i>Kanako Morita</i> (<i>Japan</i>)
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 <i>Carsten Smith Olsen (Denmark), HO Larsen, JF Lund, H Meilby, ØJ Nielsen, S Rayamajhi, N Strange</i>
12:30 - 14:00		Lunch Break

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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 <i>Kristian Thor Jakobsen (Denmark)</i>
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?
14:45 - 15:00	S41.09	
15:00 - 15:15	S41.10	Sara Trærup (Denmark), O Mertz Does climate change control land degradation in the Sahel?
15:15 - 15:30		Rasmus Fensholt (Denmark), K Rasmussen 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 <i>Koko Warner</i> (USA)
11:05 - 11:15	S42.01	The insurability of the impacts of climate change
11:20 - 11:30	S42.02	<i>Nick Silver (UK), Andrew Dlugolecki (UK)</i> Adapting to climate change to maintain the insurability of people and property against extreme weather and sea level rise
11.05 11.45	0.40.00	Nicola Patmore (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
11:45 - 12:00		Swenja Surminski (UK) 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
12:25 - 12:30		<i>Molly Hellmuth</i> (USA), H Bhojwani, D Osgood, J Hansen, A Moorhead 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 <i>Koko Warner</i> (USA)
14:05 - 14:15	S42.06	Climate insurance as part of a post-2012 adaptation strategy <i>Koko Warner</i> (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
14:50 - 15:30		Pablo Suarez (The Netherlands) Discussion
15:30 - 16:00		Coffee Break

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
11:05 - 11:30		<i>Kazuhiko Takeuchi (Japan)</i> Keynote Lecture: Towards global sustainability structuring of actions thorugh networks of networks and knowledge innovation
11:30 - 11:40	S43.01	Todai Komiyama , President, The University of Tokyo (Japan) Social-ecological resilience and transformation in the face of global change
11:40 - 11:50	S43.02	Carl Folke (Sweden) Millennium ecosystem assessment: balancing trade offs in a holistic manner
11:50 - 12:00	S43.03	Hamed Zakri (Japan) 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
12:20 - 12:30		<i>Riichiro Mizoguchi</i> (Japan), O Saito, K Kozaki, T Hirota, 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
14:10 - 14:20	S43.07	Yoshikawa, Y Motoki Strategies for reducing carbon emissions from disturbed tropical peat <i>Mitsuru Osaki</i> (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.
14:30 - 14:40	S43.09	Lutchmeeduth Bullywon (Mauritius), A Sookun Protecting the Arctic marine environment in a changing climate – options for transatlantic and international governance Katharina Umpfenbach (Germany), S Cavalieri
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
15:00 - 15:10	S43.12	<i>Hirotaka Matsuda (Japan), N Suzuki</i> Corporate sustainable-developmental responsibility (CSdR): corporate addressing climate change within a sustainability framework <i>Harn Wei Kua (Singapore)</i>
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 & Professor Louise Fresco, University of Amsterdam 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) S51.03 Technological change in agriculture and the trade-offs between land expansion, 11:40 - 12:00 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 Lunch Break 12:30 - 14:00 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) Discussion 14:40 - 15:30 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 12:20S52.04Climate change adaptation scenario for the European electricity sectorUlrich Reiter (Switzerland), H Turton12:20 12:30Discussion
- 12:30 14:00 Lunch Break

14:00 - 15:30	S52B		Hall B - Room R
		Session 52 - Economic Costs of not Mitigating Climate Change	ge Part II
14:00 - 14:20	S52.05	Quantifying the costs of no-action: high-resolution impacts analysis fo <i>Noah Diffenbaugh</i> (USA)	r the United States
14:20 - 14:40	S52.06	An adaptability limit for large warmingsare we accounting for it? <i>Steven Sherwood</i> (USA), <i>M Huber</i>	
14:40 - 15:00	\$52.07	Representing the impacts of climate change in a US economic model <i>Martin Ross (USA), B DeAngelo, R Beach, M Gallaher, S Pattanayak,</i>	C Poulos, S Waldhoff
15:00 - 15:20	\$52.08	The economic cost of climate change $-$ loss of value of European fores consequence of not mitigating climate change	stland as a
15:20 - 15:30		<i>Marc Hanewinkel</i> (<i>Germany</i>), <i>NE Zimmermann</i> , <i>DA Cullmann</i> 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 <i>Chair:Dr Max Boykoff, University of Oxford</i>	
11:00 - 11:05		Introduction	
11:05 - 11:15	S53.01	Max Boykoff (UK) 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 <i>Maxwell Boykoff</i> (UK)	
11:25 - 11:35	S53.03		
11:35 - 11:45	S53.04		
11:45 - 11:55	S53.05	The evolving role of Southeast Asian media in climate change <i>Imelda Abano (Philippines)</i>	
11:55 - 12:05	S53.06		theast Asian media
12:05 - 12:15	S53.07	Transforming the role of the media in combating climate change in Afr <i>Patrick Luganda</i> (Uganda)	rica
12:15 - 12:30		Discussion	
12:30 - 14:00		Lunch Break	

Thursday, 12 March 2009 14:00 - 15:30 S53B

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
14:10 - 14:20	S53.09	Myanna Lahsen (Brazil) The problem with supply-side science
14.10 - 14.20	555.09	Naomi Oreskes (USA)
14:20 - 14:30	\$53.10	Why climate-change skepticism is so prevalent in the USA: the success of conservative think tanks in promoting skepticism via the media <i>Riley Dunlap</i> (<i>USA</i>)
14:30 - 14:40	\$53.11	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 <i>Anabela Carvalho</i> (<i>Portugal</i>)
14:50 - 15:00	S53.13	Reducing greenhouse gases: the media challenge James Kanter (Belgium)
15:00 - 15:10	\$53.14	Exploring the media framing of carbon capture and storage and its influence on public perceptions
15:10 - 15:30		Sarah Mander (UK), R Wood, C Gough 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 <i>Joakim Nordqvist (Sweden), E Mühlhäuser</i>
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 <i>Stéphane La Branche (France)</i>
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
14:20 - 14:40	S54.05	Vanessa Pena (UK) Collaborative emission reduction in regional Australia: Maine's power
14:40 - 15:00	S54.06	<i>Peta Ashworth (Australia), D Bridgfoot, J Gardner, S Rooney</i> Transnational climate governance: assessing the performance of non-state driven mitigation schemes <i>Philipp Pattberg (The Netherlands)</i>
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
11:20 - 11:40	\$55.02	Ekko van Ireland (The Netherlands) Stringency of climate targets Paul Baer (USA)
11:40 - 12:00	\$55.03	Integrated development and climate network: climate and development <i>Munir Akram (USA)</i>
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
14:40 - 15:00	S55.06	<i>Rae Kwon Chung</i> (South Korea) UN: policy timing
15:00 - 15:30		Tariq Banuri (Sweden) Discussion
15:30 - 16:00		Coffee Break
11:00 - 12:30	S56A	Hall B - Room Y
		Session 56 - Human Migration - Geopolitical Conflicts Part I Chairs:Professor Ole Wæver, University of Copenhagen
11:00 - 11:15	S56.01	Climate change, migration and conflict in Bangladesh: a view from the ground <i>ABM Ziaur Rahman</i> (<i>Bangladesh</i>)
11:15 - 11:30	S56.02	Climate change impacts on migration: conflict and cooperation in the Mediterranean Hans Günter Brauch (Germany)
11:30 - 11:45	S56.03	Social vulnerability and geopolitical conflicts due to socio-environmental migration in Mexico
11:45 - 12:00	S56.04	Ursula Oswald Spring (Mexico) Migration: climate adaptation or failure to adapt? Findings from a global comparative field study Koko Warner (USA)
12:00 - 12:30		Discussion
12:30 - 14:00		Lunch Break

11:00 - 12:30 S56A

Hall B - Room Y

		Session 56 - Human Migration - Geopolitical Conflicts Part I <i>Chairs:Professor Ole Wæver</i>
14:00 - 14:15	S56.05	IPCC and the climate-conflict nexus

- Nils Petter Gleditsch (Norway), R Nordås
 14:15 14:30 S56.06 Climate change, urban vulnerability and disasters: a preliminary analysis of selected Nigerian cities Felix Olorunfemi (Nigeria), A Gbadegesin, U Raheem
 14:30 14:45 S56.07 The meaning and function of European discourses on climate security Julia Trombetta (The Netherlands)
 14:45 15:00 S56.08 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
11.05 11.05	a - 7 00	Edmond Dounias (France)
11:25 - 11:35	\$57.09	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 12:10Discussion12:10 12:36S57.11Climate change: the ethical dimension (Video Presentation)Robin Attfield (UK)
- 12:30 14:00 Lunch Break

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	
		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 **Mr Anders Fogh Rasmussen**, Prime Minister, Denmark

17:10 - 17:30 Closing Ceremony with Entertainment by Rasmus Lyberth & Band