



IAMC 2018 – Programme

Eleventh Annual Meeting of the Integrated Assessment Modeling Consortium

November 13th – November 15th, 2018 - Hotel Ribera de Triana, Seville, Spain

Day 1: Tuesday, November 13th, 2018

08:45	09:15	Opening Plenary		
09:15	10:30	National policies and global stock take		
10:30	11:00	<i>Break</i>		
11:00	13:00	IPCC, scenarios and IAMs		
13:00	14:00	<i>Lunch</i>		
14:00	15:45	Deep mitigation pathways 1	Integrated assessment of climate impacts 1	Sustainable finance, investments, and scenarios for financial disclosure 1
15:45	16:15	<i>Break</i>		
16:15	18:00	Deep mitigation pathways 2	Integrated assessment of climate impacts 2	Analysis of possible future disruptive trends and extension of SSP applications 1
18:00	19:30	Poster Session: Slot 1 (with cocktails and tapas)		
19:30	21:00	Poster Session: Slot 2 (with cocktails and tapas)		

Day 2: Wednesday, November 14th, 2018

09:00	10:45	Deep mitigation pathways 3	Integrated assessment of climate impacts 3	Methodological issues in the field of integrated assessment 1	
10:45	11:15	<i>Break</i>			
11:15	13:00	National mid-century mitigation strategies 1	Integrated assessment of climate impacts 4	Methodological issues in the field of integrated assessment 2	
13:00	14:00	<i>Lunch</i>			
14:00	15:45	National mid-century mitigation strategies 2	Attaining multiple SDGs 1	Methodological issues in the field of integrated assessment 3	Land-based mitigation strategies 1
15:45	16:15	<i>Break</i>			
16:15	18:00	National mid-century mitigation strategies 3	Attaining multiple SDGs 2	Methodological issues in the field of integrated assessment 4	Demand for energy and food, including the impact of lifestyle change 1

Day 3: Thursday, November 15th, 2018

08:30	09:45	The role of the financial sector in decarbonisation pathways		
09:45	11:00	New visualisation concepts for IAM results		
11:00	11:30	<i>Break</i>		
11:30	13:00	New visualisation concepts for IAM results		
13:00	14:00	<i>Lunch</i>		
14:00	15:15	Scientific Working Group Meetings		
15:15	15:45	<i>Break</i>		
15:45	16:45	Scientific Working Group Meetings		

Detailed Programme

Day 1: Tuesday, November 13, 2018

08:45-09:15

Opening Plenary

Room: 1

15'

08:45-09:00

Welcome and introductory remarks

Charlina VITCHEVA (JRC)

15'

09:00-09:15

Introduction to the meeting

John WEYANT (Stanford)

09:15-10:30

National policies and global stock take

Room: 1

Chair: Stephanie WALDHOFF (PNNL)

10'

09:15-09:25

National climate policy in Spain

Lorena PRADO ORCOYEN (Spain)

15'

09:25-09:40

Climate policy in the EU

Tom VAN IERLAND (EC)

15'

09:40-09:55

National climate policies in China

Xu HUAQING (NCSC)

15'

09:55-10:10

IAM contribution of the global stocktake (CD-LINKS/COMMIT)

Detlef VAN VUUREN (PBL)

20'

10:10-10:30

Panel on current climate policies

30'

10:30-11:00

Break

11:00-13:00

IPCC, scenarios and IAMs

Room: 1

Chair: Shinichiro FUJIMORI (NIES)

15'

11:00-11:15

Presentation on main findings IPCC Special Report on "1.5 degrees warming"

Elmar KRIEGLER (PIK)

10'

11:15-11:25

Presentation on the IPCC Special Report on land

Katherine CALVIN (PNNL)

15'

11:25-11:40

IAM contribution to the CMIP6

Detlef VAN VUUREN (PBL), Matthew GIDDEN (IIASA)

15'

11:40-11:55

New insights from climate modelling on scenarios

Chris JONES (MetOffice)

25'

11:55-12:20

Outlook on IPCC AR6 and the role of IAM-based scenarios

James SKEA (IPCC)

25'

12:20-12:45

Panel on IPCC AR6 and IAMs

15' 12:45-13:00 *Reflections on the Nobel Prize for Bill Nordhaus*
John WEYANT (Stanford)

60' 13:00-14:00 *Lunch*

14:00-15:45 PARALLEL SESSION

Room: 2

Deep mitigation pathways 1

5' 14:00-14:05 *Introduction*
Toshihiko MASUI

25' 14:05-14:30 *Evaluating Different Implementations of the UN Climate Target in Integrated Assessment Models and the Effect on the Use of BECCS*
Daniel JOHANSSON, Mariliis Lehtveer

25' 14:30-14:55 *The impact of the discount rate on deep mitigation pathways*
Laurent DROUET, Johannes Emmerling, Massimo Tavoni, Kaj-Ivar van der Wijst, Dettlef van Vurren

25' 14:55-15:20 *The interdependent roles of capture rates for fossil fuel CCS and BECCS CDR for climate stabilisation towards the Paris Agreement goals.*
James GLYNN, Paul Deane, Richard Millar, Niall Mac Dowell, Myles Allen, et al.

25' 15:20-15:45 *The Role of Direct Air Capture in Deep Mitigation Pathways*
Giulia REALMONTE, Ajay Gambhir, James Glynn, Adam Hawkes, Alex Koberle, et al

30' 15:45-16:15 *Break*

16:15-18:00 PARALLEL SESSION

Room: 2

Deep mitigation pathways 2

25' 16:15-16:40 *A low energy demand scenario for meeting the 1.5 °C target and sustainable development goals without negative emission technologies*
Arnulf Grubler, Charlie Wilson, Nuno Bento, Benigna Boza-Kiss, Volker KREY, et al

25' 16:40-17:05 *Decarbonization pathways for industry sectors: Analysis of reduction potentials using a global IAM and a technology-detailed European model*
Mariësse van Sluisvelda, Andries HOF, Harmen-Sytze de Boera, Clemens Schneider, Stefan Lechtenböhmer, et al

25' 17:05-17:30 *Demonstrating knock-on effects of Deep Decarbonization*
Haewon McJeon, Seth MONTEITH

25' 17:30-17:55 *What Future for Electrofuels? – Analysis of Cost-Competitiveness of Electrofuels for Transport in Global Climate Mitigation*
Mariliis LEHTVEER, Selma Brynolf, Maria Grahn

5' 17:55-18:00 *Discussion*

14:00-15:45 PARALLEL SESSION

Room: 1

Integrated assessment of climate impacts 1

5' 14:00-14:05 *Introduction*
Tom KRAM, Shinichiro FUJIMORI

25'	14:05-14:30	<i>Estimating climate change impacts on crop yields for integrated assessment modeling</i> Stephanie T. WALDHOFF, Ian Sue Wing, James Edmonds, Xuesong Zhang, Guoyong Leng
25'	14:30-14:55	<i>Climate Change Vulnerability of Future Calorific Supply</i> Ian Sue Wing, Enrica DE CIAN, Malcolm Mistry
25'	14:55-15:20	<i>Health co-benefits and mitigation costs of the Paris Agreement under different technological pathways</i> Jon SAMPEDRO, Iñaki Arto, Mikel González-Eguino, Anil Markandya, Cristina Pizarro-Irizar, et al
25'	15:20-15:45	<i>On the relative contributions of human systems and compounding climate impacts on global water scarcity and groundwater depletion</i> Mohamad HEJAZI, Min Chen, Sean Turner, Jae Edmonds, Chris Vernon, et al
30'	15:45-16:15	<i>Break</i>
16:15-18:00		PARALLEL SESSION Room: 1 Integrated assessment of climate impacts 2
25'	16:15-16:40	<i>Applying a water-energy-food nexus framework at sub-national scale in Latin America to Facilitate Integrated Infrastructure Investment Planning</i> Thomas WILD, Leon Clarke, Mohamad Hejazi, Zarrar Khan, Fernando Miralles-Wilhelm, et al
25'	16:40-17:05	<i>The impact of Climate Change on long-term renewable energy production</i> David GERNAAT, Seleshi Yalew, Detlef van Vuuren
25'	17:05-17:30	<i>Integrated assessment of climate and population change: A first pass</i> Antonin Pottier, Marc Fleurbaey, Aurélie MÉJEAN, Stéphane Zuber
30'	17:30-18:00	<i>Discussion</i>
14:00-15:45		PARALLEL SESSION Room: 3 Sustainable finance, investments, and scenarios for financial disclosure 1
5'	14:00-14:05	<i>Introduction</i> John WEYANT, Elmar KRIEGLER, Nico BAUER
17'	14:05-14:22	<i>Does climate policy has an impact on current accounts and the net foreign asset position of world regions?</i> Marian Leimbach, Nico BAUER
17'	14:22-14:39	<i>The macroeconomic impacts of stranded fossil fuel assets</i> Jean François MERCURE, Hector Pollitt, Jorge E. Viñuales, Neil R. Edwards, Phil B. Holden, et al
17'	14:39-14:56	<i>Implications of the Paris Agreement for Stranded Assets in Latin America and the Caribbean</i> Matthew Binsted, Gokul Iyer, James EDMONDS, Haewon McJeon, Fernando Miralles-Wilhelm, et al
17'	14:56-15:13	<i>The role of financing in EU energy efficiency policies</i> Leonidas Paroussos, Kostas Fragiadakis, Gokul Zazias, Pelopidas Siskos, Alessia De Vita, Ioannis CHARALAMPIDIS
17'	15:13-15:30	<i>Financial De-risking to Unlock Africa's Renewable Energy Potential</i> Bart Sweerts, Francesco Dalla Longa, Bob VAN DER ZWAAN
15'	15:30-15:45	<i>Discussion</i>
30'	15:45-16:15	<i>Break</i>

16:15-18:00 PARALLEL SESSION Room: 3
Analysis of possible future disruptive trends and extension of SSP applications 1

- 20' 16:15-16:35 *Optimal emissions path under multiple uncertainties: the role of the decision criteria*
Nicolas TACONET, Céline Guivarch
- 20' 16:35-16:55 *Electrifying transport slashes cost of climate change mitigation*
Son H. Kim, Stephanie Waldhoff, Allen Fawcett, James McFarland, James EDMONDS
- 20' 16:55-17:15 *Decoupling livestock from land use through industrial feed production pathways*
Benjamin L. Bodirsky, Ilje Pikaar, S. Matassa, Korneel Rabaey, Alexander POPP, et al
- 20' 17:15-17:35 *Evaluating the high-resolution water stress likelihood from China's coal-fired power plants under shared social-economic pathways (SSPs)*
Wenjia CAI, Haoran Li, Jingxuan Hui, Chaoji Cao
- 20' 17:35-17:55 *Sustainability pathways (SSP1) fundamentals for cities: factor analysis in three case studies*
Miho KAMEI
- 5' 17:55-18:00 *Discussion*

18:00-19:30 **Poster Session 1** (with cocktails and tapas)
Chair: Brian O'NEILL

Climate system representation in IAMs

- 1 *Reappraise the Social Cost of Carbon Based on the Fund_Hector Coupled Model*
Tianpeng Wang, Fei TENG

Demand for energy and food, including the impact of lifestyle change

- 2 *Environmental and economic impacts of global dietary changes in Brazil*
Bruno S. L. CUNHA, Angelo Gurgel, Rafael Garaffa, Pedro Rochedo, André F. P. Lucena, et al
- 3 *Implications of large-scale bioenergy deployment on energy demand and agricultural supply: an inter-sectoral perspective from the IMACLIM-NLU model*
Florian LEBLANC, Thierry Brunelle, Patrice Dumas, Ruben Bibas, Chloé Pelletier, et al
- 4 *Buildings' energy efficiency in mitigation pathways: an integrated assessment model perspective*
Renato RODRIGUES, Antoine Levesque, Robert C. Pietzcker, Gunnar Luderer
- 5 *The Potential of Behavioural Change for Climate Change Mitigation: A Case Study for the European Union*
Dirk-Jan VAN DE VEN, Mikel González-Eguino, Iñaki Arto

Analysis of possible future disruptive trends / Extension of SSP applications

- 6 *An alternative methodology to build a baseline for CGE models*
Luis REY, Krzysztof Wojtowicz, Umed Temursho
- 7 *Adding Spatial Age Structure to the SSPs: A case study for the continental U.S.*
Erich Striessnig, Jing Gao, Brian O'NEILL, Leiwen Jiang
- 8 *Connected, Autonomous and Electric Vehicles: modeling the macroeconomic and environmental impacts of future mobility trends scenarios*
Marie TAMBA, Bert Saveyn

Methodological issues in the field of integrated assessment

- 9 *Social dynamics of Integrated Assessment Models Challenges and prospects*
Arnaud Diemer, Ganna Gladkykh, Florian DIERICKX, Nathalie Splitter
- 10 *Transparent and reproducible processing of model inputs with flexible spatial aggregation*
Lavinia BAUMSTARK, Jan Philipp Dietrich, Anastasis Giannousakis, David Klein
- 11 *Lead emissions from lead-acid batteries industry based on integrated lead flow and life cycle analysis in China from 2004 to 2030*
Sha CHEN, Zhenyue Lian, Sumei Li
- 12 *A bibliometric analysis of the model validation literature*
Sibel EKER, Elena Rovenskaya, Simon Langan, Michael Obersteiner
- 13 *CMIP6 & IPCC SR1.5 - Leveraging open-source tools and development best practices for integrated assessment modeling and analysis*
Matthew GIDDEN, Daniel Huppmann
- 14 *Reference Energy System Modeling with R and energyRt*
Oleg LUGOVOY, Vladimir Potashnikov
- 15 *Ten ways to solve Integrated Assessment Model with open-source software*
Oleg LUGOVOY
- 16 *Global sensitivity analysis in integrated assessment modeling*
Alena MIFTAKHOVA
- 17 *Does Solar Geoengineering Devalue Research on Climate Response?*
Elnaz ROSHAN
- 18 *The effect of different endogenous cost learning methodologies including uncertainties on the uptake of Carbon Capture and Storage technologies under a carbon cost scenario*
Julia Sachs, Niccolò Bitossi, Sara BUDINIS, Sara Giarola, Adam Hawkes
- 19 *European Commission's Competence Centre on Modelling*
Paul SMITS, Sven Langedijk, Nicole Ostlaender, Giulia Listorti, Daniel Albrecht, et al
- 20 *Emulation of projected economic impacts of climate change: Mimicking integrated assessment models coupled with bio/physical impact models*
Jun'ya TAKAKURA, Shinichiro Fujimori, Kiyoshi Takahashi, Qian Zhou, Naota Hanasak, et al
- 21 *Methodological modeling innovation in the field of integrated assessment interlinked with lifecycle assessment*
Koji TOKIMATSU

Attaining multiple SDGs

- 22 *India's energy-environment synergies & trade-offs based on Integrated Assessment and Modelling*
Ritu Mathur, Swapnil SHEKHAR
 - 23 *China's deep decarbonization effort and its co-benefit of environmental health effect*
Xi YANG, Xiaoqian Xi
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- 24 *Examining the NDC (SSP2) against likely (SSP4) and sustainable (SSP1) scenarios for India by 2030: A Sustainable Development framework to India's Climate Policy*
Sujatha Byravan, Mohd Sahil ALI
- 25 *SDGs under the climate change threat: an impact assessment in the agricultural sector*
Lorenza CAMPAGNOLO, Elisa Delpiazzo
- 26 *Energy needs for adaptation: what can we learn from Paris Agreement's NDCs?*
Enrica DE CIAN, Marinella Davide, Alexis Bernigaud
- 27 *Optimal climate strategy with mitigation, carbon removal, and solar geoengineering.*
Mariia BELAIA and David Keith
- 28 *Air pollution health benefits of climate policy for major economies*
Sebastian RAUNER, Gunnar Luderer
- 29 *Sustainable Development Goals: Analysing Interactions with Integrated Assessment Models*
Heleen L. van Soest, Detlef P. VAN VUUREN, Jérôme Hilaire, Jan C. Minx, Mathijs J.H.M. Harmsen, et al
- 30 *Water Implications by mitigation scenarios for the Brazilian energy sector*
Eveline Vasquez-Arroyo, Rebeca Orosco, Pedro R.R. Rochedo, Alexandre Szklo, Roberto SCHAEFFER

Open submissions

- 31 *Organising policy-relevant knowledge for climate action: Integrated Assessment Modelling, the IPCC, and the emergence of a collective expertise on socioeconomic emission scenarios*
Christophe CASSEN, Béatrice Cointe, Alain Nadaï
- 32 *An Open-source Tool for Analyzing and Visualizing the Mitigation Scenarios Data from IAMs*
Jiayang WANG, Diego Silva Herran, Masahiro Sugiyama

19:30-21:00 **Poster Session 2** (with cocktails and tapas)
Chair: Bas VAN RUIJVEN

Sustainable finance, investments, and scenarios for financial disclosure

- 33 *Climate finance and investment allocation in a CGE model*
Rafael GARAFFA, Angelo Costa Gurgel, Bruno S. L. Cunha, André F. P. Lucena, Alexandre Szklo, et al

Integrated assessment of climate impacts

- 34 *Climate impacts in Europe: an economic perspective (JRC PESETA III project)*
Wojtek Szewczyk, Juan-Carlos CISCAR, Ignazio Mongelli
- 35 *Modeling Climate Change Impacts and Adaptation: An Analytical Framework and Application in the U.S. Agriculture Sector*
Stephanie Waldhoff, Jia LI, Richard Moss, Xuesong Zhang, Jefferson Cole, et al
- 36 *Economic impact assessment of heat stress on labour productivity: a case study of Europe*
Anton ORLOV
- 37 *Approach to energy and related SDGs on the mid and long term using Message*
Sebastien RICHET, Herve Nifenecker

Deep mitigation pathways

- 38 *Understanding the role of international shipping in high mitigation scenarios: proposal of an integrated assessment methodology to define the optimal shipping CO2 reduction target*
Eduardo Casseres, Alexandre Szklo, André Lucena, Roberto SCHAEFFER, Pedro Rochedo, et al
- 39 *Relationship between electrification rate and electricity demand on climate change mitigation*
Shogo SAKAMOTO
- 40 *The price of stupidity: exploring the sensitivity of mitigation scenarios to societal choices*
Bas VAN RUIJVEN, Oliver Fricko, Fei Guo, Volker Krey
- 41 *Integrated Assessment of Economic and Environmental Impacts of Expanding Supply of Electric Vehicles over Transportation and Electricity Industries*
Insook KIM, Dongwoo Kim
- 42 *Alternative pathways for deep emission reduction with low energy demands and low carbon prices considering a car- and ride-sharing society*
Keigo AKIMOTO, Fuminori Sano, Keii Gi
- 43 *Emission effects of fossil fuel subsidy removal*
Jessica Jewell, David McCollum, Johannes Emmerling, Christoph Bertram, Volker KREY, et al
- 44 *Aligning development and stringent climate objective - Lessons from a second best modelling framework*
Meriem HAMDI-CHERIF, Aurélie Méjean, Céline Guivarch, Julien Lefèvre
- 45 *Pathways toward Zero-Carbon Electricity Required for Climate Stabilization*
Richard Audoly, Adrien Vogt-Schilb, Céline Guivarch, Alexander PFEIFFER
- 46 *Future emissions from Global Shipping: a critical analysis of the prospects for LNG-fuelled ships using the MUSE Integrated Assessment Model*
Daniel J. G. CROW, Jamie Spiers, Sara Giarola, Adam Hawkes

Land-based mitigation strategies

- 47 *Biochar Reverse Mining in Brazil: Coupling Land Reclamation to a Negative Emissions Technology*
Fabio da Silva, Alexandre Szklo, Roberto SCHAEFFER
- 48 *Global climate change mitigation potential of bioenergy with carbon capture and storage*
Steeff HANSSSEN, Vassilis Daioglou, Zoran Steinmann, Detlef Van Vuuren, Mark Huijbregts
- 49 *Exploring Mitigation Strategies in Cropland-based Agriculture: Some Empirical Evidences from India*
Shreya SOME, Joyashree Roy, Arpita Ghose
- 50 *Organic Agriculture, Climate Mitigation and Human Health: A Tradeoff Analysis for Brazil*
Gerd Angelkorte, Alexandre KOBERLE, Alexandre Szklo, Roberto Schaeffer

National mid-century mitigation strategies

- 51 *Can India Grow and Live Within a 1.5 Degree GHG Emissions Budget?*
Kirit Parikh, Jyoti Parikh, Probal GHOSH
- 52 *Political will of Indian government behind India's mid century target and revised NDC*
Yagyavalk BHATT
- 53 *Managing India's Mid Century Carbon Strategies and Policy Implication: An Assessment of NDC using MESSAGEix-India Integrated Modelling Framework*
Anindya BHATTACHARYA, Simi Thambi, Oliver Fricko
- 54 *Economic impact of NDC and the role of electricity sector in Korea*
Donghyun CHOI, Jintae Kim, Cheolhung Cho
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- 55 *Committed CO2 emissions of coal-fired power plants in China*
Xiaoli ZHANG, Xueqin Cui, Ke Wang, Ji Zou
 - 56 *An application of GCAM to assessment of the Mid-Century Strategy for Canada's Deep Decarbonization*
Christopher Roney, Rui Xing, Haewon McJeon, Evan G. R. DAVIES
 - 57 *Are the G20 economies making enough progress to meet their NDC targets?*
Michel DEN ELZEN, Takeshi Kuramochi, Niklas Höhne, Jasmin Cantzler, Kendall Esmeijer, et al
 - 58 *Emission reductions needed in major economies for meeting 2 degree Celsius based on cost-optimal scenarios*
Michel DEN ELZEN, Kendall Esmeijer, Heleen van Soest
 - 59 *An emissions quantity target can reduce China's climate mitigation risks*
Anastasis Giannousakis, Lavinia Baumstark, Elmar KRIEGLER
 - 60 *Energy Transition, CO2 Mitigation and Air Pollutant Emission Reduction: Scenario Analysis from IPAC Model*
Kejun JIANG, Chenmin He, Sha Chen, Jia Liu, Sun Kuo, et al
 - 61 *Mid-century transition towards a carbon neutral economy: the case of France*
Julien LEFÈVRE
 - 62 *Assessing Carbon Lock-Ins in Developing Economies*
Aman Malik, Christoph BERTRAM

Day 2: Wednesday, November 14, 2018

09:00-10:45 PARALLEL SESSION

Room: 3

Deep mitigation pathways 3

- 25' 09:00-09:25 *Low stabilization scenarios with multiple CDR options*
Nico BAUER, Elmar Kriegler, Jessica Strefler, David Klein, Florian Humpenöder
- 25' 09:25-09:50 *Health co-benefits from air pollutant reduction through coal-fired power plant cancellations*
Ryna Yiyun CUI, Jon Sampedro, Haewon McJeon, Nathan Hultman, Linlang He, et al
- 25' 09:50-10:15 *Exploring European Union deep mitigation alternative pathways*
Renato RODRIGUES, Robert Pietzcker
- 30' 10:15-10:45 *Discussion*
- 30' 10:45-11:15 *Break*

11:15-13:00 PARALLEL SESSION

Room: 3

National mid-century mitigation strategies 1

- 5' 11:15-11:20 *Introduction*
Roberto SCHAEFFER
- 20' 11:20-11:40 *Implications of effort-sharing approaches for national carbon budgets, emission pathways and financial flows*
Nicole J. VAN DEN BERG, Heleen L. van Soest, Andries F. Hof, Michel G. J. den Elzen, Detlef P. van Vuuren
- 20' 11:40-12:00 *The role of carbon pricing and technological developments for achieving low carbon growth in India*
Basanta K. PRADHAN, Joydeep Ghosh
- 20' 12:00-12:20 *Sustainable Development, Uncertainties, and India's Climate Policy: Pathways towards Nationally Determined Contribution and Mid-Century Strategy*
Vaibhav CHATURVEDI, Poonam Nagar Koti, Anjali Ramakrishnan Chordia
- 20' 12:20-12:40 *Characterizing Japan's energy pathways for climate change mitigation: A multi-model study*
Masahiro SUGIYAMA, Shinichiro Fujimori, Kenichi Wada, Jiayang Wang, Ken Oshiro, et al
- 20' 12:40-13:00 *New integrated assessment modeling framework: incorporating energy-economic, technology, power generation, and land-use models*
Shinichiro FUJIMORI, Hiroto Shiraki, Ken Oshiro, Tomoko Hasegawa
- 60' 13:00-14:00 *Lunch*

09:00-10:45 PARALLEL SESSION

Room: 2

Integrated assessment of climate impacts 3

- 5' 09:00-09:05 *Introduction*
Juan-Carlos CISCAR, Stephanie WALDHOFF

25'	09:05-09:30	<i>How do impacts of climate change on the global scale affect individuals?</i> Asbjørn AAHEIM, Orlov Anton, Dhakal Kabindra	
25'	09:30-09:55	<i>Assessing Socioeconomic and Climate-related Uncertainties on Social Cost of Carbon (SCC)</i> Xuanming SU, Shinichiro Fujimori, Kaoru Tachiiri, Hancheng Dai, Katsumasa Tanaka, et al	
25'	09:55-10:20	<i>What does Paris mean for Africa?</i> Kelly DE BRUIN, Victoria Ayubu	
25'	10:20-10:45	<i>A multi-model assessment of economy-wide effects from impacts of and adaptation to coastal flooding due to sea level rise in a well-below 2°C world</i> Thomas Schinko, Laurent Drouet, Zoi Vrontisi, Andries HOF, Jochen Hinkel, et al	
30'	10:45-11:15	<i>Break</i>	
11:15-13:00	PARALLEL SESSION	Integrated assessment of climate impacts 4	Room: 2
20'	11:15-11:35	<i>Representing the Earth System in an Integrated Assessment Model</i> Katherine CALVIN, Ben Bond-Lamberty, Andrew Jones, Xiaoying Shi, Alan Di Vittorio, et al	
20'	11:35-11:55	<i>Some Observations on Simple Climate Models</i> Robert GIESEKE, Zebedee Nicholls	
20'	11:55-12:15	<i>Hector - a computationally-efficient, open-source, community-based global and regional climate emulator</i> Corinne HARTIN, Ben Bond-Lamberty, Robert Link, Ben Vega-Westhoff, Ryan Sriver, et al	
20'	12:15-12:35	<i>Statistical Approximation of High-Dimensional Climate Models</i> Alena MIFTAKHOVA, Kenneth L. Judd, Thomas S. Lontzek, Karl Schmedders	
25'	12:35-13:00	<i>Discussion</i>	
60'	13:00-14:00	<i>Lunch</i>	
09:00-10:45	PARALLEL SESSION	Methodological issues in the field of integrated assessment 1	Room: 1
10'	09:00-09:10	<i>Introduction</i> Bas VAN RUIJVEN, Peter RUSS	
25'	09:10-09:35	<i>SENSES – innovative methods to communicate IAM scenario information to the stakeholder world</i> Cornelia AUER	
25'	09:35-10:00	<i>Are Interactive Web-Tools with Large Scenario Databases Worth the Effort? An Experimental Study with Non-Experts</i> Georgios XEXAKIS, Evelina Trutnevyte	
25'	10:00-10:25	<i>A feasibility study on bioenergy uptake in the industrial sector</i> Sara BUDINIS, Ivan Garcia Kerdan, Julia Sachs, Sara Giarola, Adam Hawkes	
20'	10:25-10:45	<i>Bioenergy technology representation and climate change mitigation strategies</i> Vassilis DAIIOGLOU, Steven Rose, Nico Bauer, Alban Kitous, Matteo Muratori	
30'	10:45-11:15	<i>Break</i>	

11:15-13:00 PARALLEL SESSION Room: 1
Methodological issues in the field of integrated assessment 2

- 20' 11:15-11:35 *Linking Integrated Assessment Models (IAMs) with Life Cycle Assessment (LCA) for improved prospective product assessment*
 Angelica MENDOZA BELTRAN, Brian Cox, Chris Mutel, Detlef P. van Vuuren, Jeroen Guinée, et al
- 20' 11:35-11:55 *Advancing Energy Access Modelling with Geographic Information System Data*
 Francesco Dalla Longa, Teun Strikkers, Tom Kober, Bob VAN DER ZWAAN
- 20' 11:55-12:15 *Including bottom-up end-of-pipe abatement technologies in a large-scale global model for climate policy assessment*
 Matthias WEITZEL, Toon Vandyck, Bert Saveyn
- 20' 12:15-12:35 *Reconciling global-model estimates and country reporting of anthropogenic forest CO2 sinks*
 Giacomo GRASSI
- 25' 12:35-13:00 *Discussion*
- 60' 13:00-14:00 *Lunch*

14:00-15:45 PARALLEL SESSION Room: 2
National mid-century mitigation strategies 2

- 20' 14:00-14:20 *Research on Financial Needs in Implementing China's Nationally Determined Contributions and Mid-Century Strategy*
 Qimin Chai, Sha FU, Xinyuan Wen
- 20' 14:20-14:40 *Study on China's Mid-to-Long Term Low Carbon Development Strategy Target and Roadmap*
 Junling LIU, Keb Wang, Jibc Zou
- 20' 14:40-15:00 *Strengthen the Non-CO2 greenhouse gas reduction in China's NDC and LEDS*
 Fei TENG, Xin Wang, Xi Yang
- 20' 15:00-15:20 *Brazil emissions trajectories in a well-below 2oC world: the role of disruptive technologies versus land-based mitigation in an already low-emission energy system*
 Alexandre C. KÖBERLE, Pedro Rochedo, Andre F.P Lucena, Alexandre Szklo, Roberto Schaeffer
- 20' 15:20-15:40 *Brazil's future technical potential of bio-electricity production considering land-use constraints*
 Ivan GARCIA Kerdan, Lucas Lyrio de Oliveira, Celma de Oliveira Ribeiro, Claudio Augusto Oller do Nascimento, Erik Eduardo Rego, et al
- 5' 15:40-15:45 *Discussion*
- 30' 15:45-16:15 *Break*

16:15-18:00 PARALLEL SESSION Room: 2
National mid-century mitigation strategies 3

- 20' 16:15-16:35 *Combined Top-down and Bottom-up Investigation for Finding Sustainable and Economic Energy Transition Policies in South Korea*
 Jung-Hwa WUI, Somi Jung, Dongwoo Kim

20' 16:35-16:55 *Embodied Emission in French Trade under National Climate Constraints for a Low Carbon Society*
Gaëlle LE TREUT, Antoine Teixeira

20' 16:55-17:15 *The America's Pledge Analysis: A Multi-Scale Analytical Approach for Understanding the Implications of State, Local, and Business Efforts to Reduce Emissions*
Leon CLARKE, Haewon McJeon, Kristin Igusky, Koben Calhoun, Nate Hultman, et al

45' 17:15-18:00 *Discussion*

14:00-15:45 PARALLEL SESSION

Room: 3

Attaining multiple SDGs 1

5' 14:00-14:05 *Introduction*
Detlef VAN VUUREN

22' 14:05-14:27 *Subjective Well-Being (SWB) across the SSPs - Robust determinants and simulation results*
Johannes EMMERLING, Paula Navarro, Matt Sisco

22' 14:27-14:49 *Modelling integrated SDG pathways: A case study analysis of goals 6, 7, 12 and 13*
Simon PARKINSON, Volker Krey, David McCollum, Edward Byers, Ned Djilali, Keywan Riahi

22' 14:49-15:11 *Bending the curve on terrestrial biodiversity loss: A multi-model assessment*
David LECLERE, Michael Obersteiner, Rob Alkemade, Rosamunde Almond, Mike Barrett

22' 15:11-15:33 *Air quality, human health, and agriculture co-benefits of climate policy under the Paris Agreement*
Toon VANDYCK, Kimon Keramidas, Alban Kitous, Rita Van Dingenen, Joseph V. Spadaro

12' 15:33-15:45 *Discussion*

30' 15:45-16:15 *Break*

16:15-18:00 PARALLEL SESSION

Room: 3

Attaining multiple SDGs 2

22' 16:15-16:37 *Identifying optimal subsidy portfolios to simultaneously achieve SDG 3 (health), 7 (energy access) and 13 (climate action) in Eastern Africa*
Dirk-Jan VAN DE VEN, Jon Sampedro, Francis X. Johnson, Rob Bailis, Aikaterini Forouli, et al

22' 16:37-16:59 *Transition to cleaner cooking solutions in Sub-Saharan Africa*
Anteneh G. DAGNACHEW, Paul L. Lucas, Andries F. Hof, Detlef P. van Vuuren

22' 16:59-17:21 *Regional implications of alternative sustainable energy pathways*
Stephanie Waldhoff, Ryna YIYUN, Jae Edmonds, Son Kim

22' 17:21-17:43 *Assessment of mitigation options reconciling with sustainable development goals: a case study of China*
Jing-Yu LIU, Shinichiro Fujimori, Kiyoshi Takahashi, Tomoko Hasegawa, Toshihiko Masui, et al

17' 17:43-18:00 *General discussion*

14:00-15:45 PARALLEL SESSION Room: 1
Methodological issues in the field of integrated assessment 3

- 10' 14:00-14:10 *Introduction*
Bas VAN RUIJVEN, Peter RUSS
- 25' 14:10-14:35 *Modeling Sectoral Energy End-Use with Observed and Unobserved Heterogeneity*
Geoffrey BLANFORD, John Bistline
- 25' 14:35-15:00 *MEDEAS-World: a new IAM framework integrating biophysical and socioeconomic constraints*
Iñigo CAPELLÁN-PÉREZ, Ignacio de Blas, Jaime Nieto, Carlos De Castro, Luis Javier Miguel, et al
- 25' 15:00-15:25 *Integrating intermittent renewables in a global long-term energy model by using representative days*
Jacques DESPRÉS, Andreas Schmitz
- 20' 15:25-15:45 *Integrated Assessment of Benefits of Electricity Trade between Nepal and India*
Kirit Parikh, Jyoti Parikh, Probal GHOSH, Vinay Saini
- 30' 15:45-16:15 *Break*

16:15-18:00 PARALLEL SESSION Room: 1
Methodological issues in the field of integrated assessment 4

- 20' 16:15-16:35 *Replacing temperature targets by subsidiary targets: How accurate are they? – Overshooting vs. economic losses*
Lukas Stein, Mohammad M. Khabbazan, Hermann HELD
- 20' 16:35-16:55 *Variance-based sensitivity analysis as a tool to capture robustness of policy insights from integrated assessment modeling*
Elmar KRIEGLER
- 20' 16:55-17:15 *Multi-Module and Multi-Decision Theory Advances: Introduction of Risk-Specific Discount Rate*
Mohammad M. KHABBAZAN
- 20' 17:15-17:35 *Integrated Assessment Models and dominance criteria for inter-temporal and risky policies*
Nicoleta-Anca MATEI
- 25' 17:35-18:00 *Discussion*

14:00-15:45 PARALLEL SESSION Room: 4
Land-based mitigation strategies 1

- 5' 14:00-14:05 *Introduction*
Steve ROSE, Alexander POPP
- 17' 14:05-14:22 *Economic potential and trade-offs of assisted afforestation and natural forest regrowth in deep mitigation scenarios*
Jonathan C. DOELMAN, Elke Stehfest, Detlef P. van Vuuren, Andries F. Hof, Maarten C. Braakhekke, et al
- 17' 14:22-14:39 *An integrated assessment of global bioenergy potential from dedicated bio-crops under environmental policies*
Wenchao WU, Tomoko Hasegawa, Haruka Ohashi, Naota Hanasaki, Tetsuya Matsui

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- 17' 14:39-14:56 *Impact of land-use mitigations policies on biodiversity and food production*
Rémi PRUDHOMME, Adriana DePalma, Patrice Dumas, Ricardo Gonzalez, Harold Levre, et al
 - 17' 14:56-15:13 *GHG emission leakage due to fragmentary AFOLU policies under the Paris Climate Agreement*
Miodrag STEVANOVIĆ, Florian Humpenöder, Jan Philipp Dietrich, Alexander Popp
 - 17' 15:13-15:30 *The Potential Land-use Impacts from Solar Energy*
Dirk-Jan van de Ven, Iñigo Capellan-Perez, Iñaki Arto, Ignazio CAZCARRO, Mikel González-Eguino, et al
 - 15' 15:30-15:45 *Discussion*
 - 30' 15:30-16:00 *Break*

16:00-18:00 PARALLEL SESSION

Room: 4

Demand for energy and food, including the impact of lifestyle change 1

- 5' 16:00-16:05 *Introduction*
Massimo TAVONI
 - 25' 16:05-16:30 *Sustainable Lifestyle and Behaviour: crucial elements across different disciplines, methodologies and theories*
Nicole VAN DEN BERG, Lewis Akenji, Andries Hof, Mariesse van Sluisveld, Vanessa Timmer
 - 25' 16:30-16:55 *Economic drivers of material use to 2060*
Ruben BIBAS, Jean Chateau, Rob Dellink, Elisa Lanzi
 - 25' 16:55-17:20 *Heterogeneous electricity consumption in the residential sector: application of an Agent Based Model*
Luciana Miu, Oreane Y. EDELENBOSCH, Julia Sachs, Adam Hawkes, Massimo Tavoni
 - 25' 17:20-17:45 *Investigating global diet change dynamics by linking models of human behavior to IAMs*
Sibel EKER, Gerhard Reese, Lei Gao, Michael Obersteiner
 - 25' 17:45-18:00 *Discussion*
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Day 3: Thursday, November 15, 2018

08:30-09:45 **The role of the financial sector in decarbonisation pathways** Room: 1
Chair: James EDMONDS (PNNL)

45' 08:30-09:15 *Brief presentations on the role of the financial sector in decarbonisation*
Christoph BERTRAM (PIK), Steve ROSE (EPRI), Jakob THOMAE (2ii)

30' 09:15-09:45 *Panel on same topic*

09:45-11:00 **New visualisation concepts for IAM results** Room: 1
Chair: Elmar KRIEGLER (PIK)

15' 09:45-10:00 *Introduction to the IAMC 1.5C Scenario Explorer*
Volker KREY (IIASA)

20' 10:00-10:20 *Presentation on results in the SENSES project*
Elmar KRIEGLER (PIK), Boris MÜLLER (FH-Potsdam)

10' 10:20-10:30 *Presentation on CD-LINKS infographics work*
Laurent DROUET (CMCC)

10' 10:30-10:40 *Progress in visualation in the GCAM team*
Stephanie WALDHOFF (PNNL)

20' 10:40-11:00 *Q&A on the same topic*

30' 11:00-11:30 *Break*

11:30-13:00 **Community activities** Room: 1

30' 11:30-12:00 *Quick overview of current projects*
John WEYANT (Stanford)

20' 12:00-12:20 *Lessons from IAMC conference*
James EDMONDS (PNNL), Fu SHA (NDRC), Aurelie MÉJEAN (CIRED)

20' 12:20-12:40 *Updates by the Scientific Working Groups*
John WEYANT (Chair, Stanford)

20' 12:40-13:00 *Final discussions*

60' 13:00-14:00 *Lunch*

14:00-16:45 **Scientific Working Group Meetings** Room: 1

45' 14:00-14:45 *Scientific Working Group on Data, including demonstration of the IAMC 1.5C Scenario Explorer and discussion of further development*
Volker KREY (IIASA), Kate CALVIN (PNNL)

15' 14:45-15:00 *The burgeoning ecosystem of IAM tools: current status and next steps*

Matthew GIDDEN (IIASA)

15' 15:00-15:15 *Scientific Working Group on scenarios*
Tom KRAM (PBL), Detlef VAN VUUREN (PBL), Keywan RIAHI (IIASA)

15:15-15:45 *Break*

30' 15:45-16:15 *Scientific Working Group on finance*
James EDMONDS (PNNL), Elmar KRIEGLER (PIK)

30' 16:15-16:45 *Scientific Working Group on diagnostic*
James EDMONDS (PNNL), Elmar KRIEGLER (PIK)