

Code	Title	Organizers / Contact
A - Environmental Information-, Decision Support-, and Modelling Systems		
Stream Facilitator: Dagmar Bankamp		
A1	Session: Interaction design for environmental information systems	Daryl H. Hepting , University of Regina, Canada Steven Frysinger , James Madison University, USA Markus Wrobel , Potsdam Institute for Climate Impact Research (PIK), Germany
A2	Session: Striking the balance: advancing multi-objective decision support for a changing world	Andrea Castelletti , Politecnico di Milano, Milano, Italy Francesca Pianosi , Politecnico di Milano, Milano, Italy Patrick Reed , The Pennsylvania State University, University Park, USA Dragan Savic , School of Engineering, Computing and Mathematics University of Exeter, UK Alexander Lotov , Dorodnicyn Computing Centre of Russian Academy of Sciences, Moscow, Russia
A3	Session: Intelligent Environmental Decision Support Systems (IEDSS): from single methods to an automatic semantic interoperability of artificial intelligence/mathematical/statistical methods (S-IEDSS-2012)	Miquel Sànchez-Marrè , KEMLG, Universitat Politècnica de Catalunya-BarcelonaTech, Catalonia Karina Gibert , KEMLG, Universitat Politècnica de Catalunya-BarcelonaTech, Catalonia Joaquim Comas , University of Girona, Catalonia Ignasi Rodríguez-Roda , Catalan Institute for Water Research (ICRA) and University of Girona, Catalonia Manel Poch , Catalan Institute for Water Research (ICRA), Girona, Catalonia Ulises Cortés , KEMLG, Universitat Politècnica de Catalunya-BarcelonaTech, Catalonia Rick Sojda , NRMSC, Montana State University, USA Jean Philippe Steyer , LBE - INRA, France Peter Struss , Technical University of Munich, Germany Mihaela Oprea , University Petroleum-Gas from Ploiesti, Romania Franz Wotawa , Graz University of Technology, Austria René Bañares-Alcántara , Oxford University, England, UK
A4	Workshop: Defining interaction design for environmental information systems	Daryl Hepting , Ph.D. Associate Professor, University of Regina, Canada Steven Frysinger , James Madison University, USA Markus Wrobel , Potsdam Institute for Climate Impact Research (PIK), Germany
A5	Session: System Identification and Control Theory applications for Environmental Systems Management	Andrea Castelletti , Politecnico di Milano, Italy Marialuisa Volta , Università di Brescia, Italy Andrea E. Rizzoli , IDSIA, Manno, Switzerland
A6	Session: Innovative approaches and components in Environmental Modelling and Software	David Swayne , University of Guelph, Canada Holly C. Hartmann , University of Arizona, Tucson, USA

B - Human Health and Environmental Risks		Stream Facilitator: Stefan Reis
B1	Session: Modelling social and environmental determinants of human and ecosystem health	Stefan Reis , Centre for Ecology & Hydrology (CEH), Bush Estate, Penicuik, UK Susanne Steinle , Centre for Ecology & Hydrology (CEH), Bush Estate, Penicuik, UK and College of Life and Environmental Sciences, University of Exeter, UK
B2	Session: Methodological developments in the assessment of radiation risks	Kristina Voigt / Hagen Scherb , Helmholtz Zentrum München, German Research Centre for Environment and Health, Germany
B3	Session: Current trends in software developments for environmental pollution modelling	Stefan Reis , Centre for Ecology & Hydrology (CEH), Bush Estate, Penicuik, UK Kristina Voigt , Helmholtz Zentrum München, German Research Centre for Environment and Health, Germany
C - Climate Mitigation and Adaptation Strategies		Stream Facilitator: Georgii Alexandrov / Christian Schweitzer
C1	Session: Climate change and agriculture – modelling impacts, exploring adaptation options, identifying conflicts	Annelie Holzkämper , Agroscope Research Station Reckenholz-Tänikon ART, Air Pollution and Climate Group, Zurich, Switzerland Robert Finger , 2Agri-food and Agri-environmental Economics Group, ETH Zürich, Switzerland Jürg Fuhrer , Agroscope Research Station Reckenholz-Tänikon ART, Air Pollution and Climate Group, Zurich, Switzerland
C2	Session: Modelling the effectiveness and efficiency of REDD+	Daniel Müller / Zhanli Sun , Leibniz Institute of Agricultural Development in Central and Eastern Europe (IAMO), Halle (Saale), Germany
C3	Session: Data sets and model components for an integrative assessment of climate strategies	Georgii A. Alexandrov , Institute of Atmospheric Physics (Russian Academy of Sciences), Moscow, Russia

D - Model Development, Analysis and Application: N		Stream Facilitator: Georgii Alexandrov / Christian Schweitzer
D1.1	Session: Uncertainty Analysis (Environmental Model Application)	James C. Ascough II , USDA-ARS-NPA, Agricultural Systems Research Unit, Fort Collins, Colorado, USA Holger Maier , School of Civil, Environmental and Mining Engineering, The University of Adelaide, Australia Olaf David , Depts. of Civil and Environmental Engineering and Computer Science, Colorado State University, Fort Collins, Colorado USA Peter Krause , Department of Geography, Friedrich-Schiller-Universität Jena, Germany
D1.2	Session: Uncertainty Analysis (General Frameworks, Data, and Decision Support)	James C. Ascough II , USDA-ARS-NPA, Agricultural Systems Research Unit, Fort Collins, Colorado, USA Jack Carlson , Colorado State University, USA Holger Maier , School of Civil, Environmental and Mining Engineering, The University of Adelaide, Australia Olaf David , Depts. of Civil and Environmental Engineering and Computer Science, Colorado State University, Fort Collins, Colorado USA Peter Krause , Department of Geography, Friedrich-Schiller-Universität Jena, Germany
D1.3	Session: Sensitivity Analysis	James C. Ascough II , USDA-ARS-NPA, Agricultural Systems Research Unit, Fort Collins, Colorado, USA Holger Maier , School of Civil, Environmental and Mining Engineering, The University of Adelaide, Australia Peter Krause , Department of Geography, Friedrich-Schiller-Universität Jena, Germany Olaf David , Depts. of Civil and Environmental Engineering and Computer Science, Colorado State University, Fort Collins, Colorado USA
D2	Session: Distributed environmental modelling	Ari Jolma , Professor, Aalto University, Espoo, Finland Kostas Karatzas , Aristotle University, Thessaloniki, Greece Karl Aberer , EPLF, Lausanne, Switzerland Mike Sips , GFZ German Research Centre for Geosciences, Potsdam, Germany Phillip C. Dibner , OGC Interoperability Institute, Wayland, USA
D3.1	Session: Advances in Software Engineering for IEM: "Methods and Approaches"	Olaf David , Colorado State University, Fort Collins, Colorado USA James C. Ascough II , USDA-ARS-NPA, Agricultural Systems Research Unit, Fort Collins, Colorado, USA Peter Krause / Sven Kralisch , Friedrich-Schiller-Universität Jena, Germany
D3.2	Session: Advances in Software Engineering for IEM: "Applications and Use cases"	Olaf David , Colorado State University, Fort Collins, Colorado USA James C. Ascough II , USDA-ARS-NPA, Agricultural Systems Research Unit, Fort Collins, Colorado, USA Peter Krause / Sven Kralisch , Friedrich-Schiller-Universität Jena, Germany

<p>D4</p>	<p>Session: Characterising environmental modelling paradigms (Bayesian networks, system dynamics, agent based models, coupled complex models and expert systems)</p>	<p>Tony Jakeman, Australian National University (ANU), Canberra, Australia Olivier Barreteau (contact person), Cemagref, UR Irrigation, Montpellier, France Mark Borsuk (contact person), Thayer School of Engineering, Dartmouth College, New Hampshire, USA Andrea Rizzoli, IDSIA, Manno, Switzerland Sondoss El Sawah, Australian National University (ANU), Canberra, Australia Carlo Giupponi, University of Venice Ca' Foscari, Euro-Mediterranean Centre for Climate Change (CMCC) and Fondazione Eni Enrico Mattei (FEEM), Italy Rebecca Kelly, Australian National University (ANU), Canberra, Australia Barbara Robson, CSIRO, Australia Alexey Voinov, University of Twente (ITC), Enschede, The Netherlands</p>
<p>D6.1</p>	<p>Session: Geographic Information Systems and geoprocessing workflows for environmental modelling: GIS Based Workflows</p>	<p>Daniel P. Ames, Idaho State University, Idaho Falls, USA Nigel W.T. Quinn, Lawrence Berkeley National Laboratory, ESD, Berkeley, USA Robert Argent, University of Melbourne, Australia Susan Cuddy, CSIRO, Australia Raul Zurita-Milla, Wageningen University, The Netherlands</p>
<p>D6.2</p>	<p>Session: Geographic Information Systems and geoprocessing workflows for environmental modelling: GIS Hydro-Climate Analysis</p>	<p>Daniel P. Ames, Idaho State University, Idaho Falls, USA Nigel W.T. Quinn, Lawrence Berkeley National Laboratory, ESD, Berkeley, USA Robert Argent, University of Melbourne, Australia Susan Cuddy, CSIRO, Australia Raul Zurita-Milla, Wageningen University, The Netherlands</p>
<p>D6.3</p>	<p>Session: Geographic Information Systems and geoprocessing workflows for environmental modelling: GIS Web Services & Systems</p>	<p>Daniel P. Ames, Idaho State University, Idaho Falls, USA Nigel W.T. Quinn, Lawrence Berkeley National Laboratory, ESD, Berkeley, USA Robert Argent, University of Melbourne, Australia Susan Cuddy, CSIRO, Australia Raul Zurita-Milla, Wageningen University, The Netherlands</p>
<p>D6.4</p>	<p>Session: Geographic Information Systems and geoprocessing workflows for environmental modelling: GIS Land-Surface Analysis</p>	<p>Daniel P. Ames, Idaho State University, Idaho Falls, USA Nigel W.T. Quinn, Lawrence Berkeley National Laboratory, ESD, Berkeley, USA Robert Argent, University of Melbourne, Australia Susan Cuddy, CSIRO, Australia Raul Zurita-Milla, Wageningen University, The Netherlands</p>
<p>D6.5</p>	<p>Session: Geographic Information Systems and geoprocessing workflows for environmental modelling: GIS Spatial Temporal Analysis</p>	<p>Daniel P. Ames, Idaho State University, Idaho Falls, USA Nigel W.T. Quinn, Lawrence Berkeley National Laboratory, ESD, Berkeley, USA Robert Argent, University of Melbourne, Australia Susan Cuddy, CSIRO, Australia Raul Zurita-Milla, Wageningen University, The Netherlands</p>

<p>D7</p>	<p>Session: Third session on data mining as a tool for environmental scientists (S-DMTES-2012)</p>	<p>Karina Gibert, KEMLG, Universitat Politècnica de Catalunya-BarcelonaTech, Catalonia Miquel Sànchez-Marrè, KEMLG, Universitat Politècnica de Catalunya-BarcelonaTech, Catalonia Joaquín Izquierdo, Universitat Politecnica de Valencia, Valencia, Spain Ignasi Rodríguez-Roda, Catalan Institute for Water Research (ICRA) and University of Girona, Catalonia Geoff Holmes, The University of Waikato, New Zealand Serena Chen, Australian National University (ANU), Canberra, Australia Antonio Ciampi, McGill University, Canada Ioannis Athanasiadis, University of Thrace, Xanthi, Greece</p>
<p>D8</p>	<p>Workshop: Comparison of and guidelines for environmental modelling paradigms</p>	<p>Tony Jakeman, Australian National University (ANU), Canberra, Australia Olivier Barreteau (contact person), Cemagref, UR Irrigation, Montpellier, France Mark Borsuk (contact person), Thayer School of Engineering, Dartmouth College, New Hampshire, USA Andrea Rizzoli, IDSIA, Manno, Switzerland Alexey Voinov, University of Twente (ITC), Enschede, The Netherlands</p>
<p>D9</p>	<p>Workshop: The Community for Integrated Environmental Modelling (CIEM): Current status and future directions</p>	<p>Gerry Laniak, US EPA Ecosystems Research Division, National Exposure Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Athens, Georgia Gene Whelan</p>
<p>D10</p>	<p>Workshop: Complex problems, simple answers, difficult solutions</p>	<p>Alexey Voinov (contact person), University of Twente (ITC), Enschede, The Netherlands Ralf Seppelt, Helmholtz Centre for environmental Research - UFZ and Marin-Luther University Halle-Wittenberg, Germany</p>
<p>D11</p>	<p>Session: Ecological modelling and networks</p>	<p>Brian Fath, Ph.D.; Professor, Towson University and International Institute for Applied Systems Analysis, USA Caner Kazanci, University of Georgia Ursula Scharler, University of KwaZulu-Natal</p>
<p>D12</p>	<p>Workshop: First joint workshop on data mining and intelligent decision support systems for environmental scientists (IV W-DMTES-2012 and IEDSS-2012)</p>	<p>Karina Gibert, KEMLG, Universitat Politècnica de Catalunya-BarcelonaTech, Catalonia Joaquín Izquierdo, Universitat Politecnica de Valencia, Valencia, Spain Miquel Sànchez-Marrè, KEMLG, Universitat Politècnica de Catalunya-BarcelonaTech, Catalonia Ignasi Rodríguez-Roda, Catalan Institute for Water Research (ICRA) and University of Girona, Catalonia Rick Sojda, NRMSC, US Dept. of the Interior - Geological Survey/Ecology Dept., Montana State University, USA Geoff Holmes, The University of Waikato, New Zealand Antonio Ciampi, McGill University, Canada Ioannis Athanasiadis, University of Thrace, Xanthi, Greece Joaquim Comas, University of Girona, Catalonia</p>

E - Participatory Modelling and Stakeholder Involvement		Stream Facilitator: Alexey Voinov
E1	Session: The role of models in governing transition processes towards sustainable resource management	Claudia Pahl-Wostl / Johannes Halbe (contact person), Institute of Environmental Systems Research (USF), Osnabrück, Germany Jan Sendzimir , International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria Dominik Reusser (contact person), Potsdam Institute for Climate Impact Research (PIK), Potsdam, Germany
E2	Session: Understanding human-environment interactions through modelling and stakeholder participation: integrating models and stakeholders	Pieter Valkering (contact person) / Heleen Vreugdenhil , International Centre for Integrated assessment and Sustainable development (ICIS), Maastricht University, The Netherlands Drs. Marjolijn Haasnoot , Deltares - Delft Hydraulics, The Netherlands Francois Bousquet , cirad, France Jörg Krywkow (contact person) / Geeske Scholz , University of Osnabrück, Germany Alexey Voinov , University of Twente (ITC), Enschede, The Netherlands
E3	Workshop: Understanding human-environment interactions through modelling and stakeholder participation: integrating models and stakeholders	Pieter Valkering (contact person) / Heleen Vreugdenhil , International Centre for Integrated assessment and Sustainable development, (ICIS), Maastricht University, The Netherlands Drs. Marjolijn Haasnoot , Deltares - Delft Hydraulics, The Netherlands Francois Bousquet , cirad, France Jörg Krywkow (contact person) / Geeske Scholz , University of Osnabrück, Germany Alexey Voinov , University of Twente (ITC), Enschede, The Netherlands
E4	Workshop: Community mapping and empowerment: A hands-on workshop/tutorial with actual village data and simplified villageQGIS software	Nagesh Kolagani : Indian Institute of Technology Madras (IIT Madras), Madras, India

F - Resource Management and Sustainability		Stream Facilitator: Jörg Priess
F1	Session: Land-use and land-cover modelling: dealing with complexity	Daniel Rutledge / Alexander Herzig / Fraser Morgan , Manaaki Whenua Landcare Research NZ Ltd Brendan Williams , University College Dublin Guy Engelen, Jean-Luc de Kok , Vlaamse Instituut voor Technologische Onderzoek (VITO)
F2	Session: Sustainability assessment: quantitative indicators, models and techniques	Marina G. Erechchoukova / Peter A. Khaïter , York University, Toronto, Canada
F3.1	Session: Simulating environmental change – quality, quantity and validation: Examples focusing on terrestrial systems	Joerg Priess / Christian Schweitzer , Helmholtz-Centre for Environmental Research – UFZ, Leipzig, Germany
F3.2	Session: Simulating environmental change – quality, quantity and validation	Joerg Priess / Christian Schweitzer , Helmholtz-Centre for Environmental Research – UFZ, Leipzig, Germany
F5	Session: Understanding ecosystem services, multi-functional land use, trade-offs and uncertainty	David Miller (contact person) / Iain Brown / Keith Matthews , The James Hutton Institute, Aberdeen, UK
F6	Workshop: Advancing land-use and land-cover modelling: enhancing complexity	Daniel Rutledge / Alexander Herzig / Fraser Morgan , Manaaki Whenua Landcare Research, New Zealand Brendan Williams , University College Dublin; Ireland Guy Engelen / Jean-Luc de Kok , Vlaamse Instituut voor Technologische Onderzoek (VITO), Belgium
F7	Workshop: Understanding ecosystem services, multi-functional land use, trade-offs and uncertainty for policy support and land management	David Miller (contact person) / Iain Brown / Keith Matthews , The James Hutton Institute, Aberdeen, UK

G- Semantics and the Environment		Stream Facilitator: <u>Andrea Rizzoli</u>
G1.1	Session: Analysis of remote sensing data for environmental models (with special emphasis on “Remote sensing”)	Isabelle Herlin (contact person) , INRIA, Paris Roberto San Jose , UPM, Madrid, Spain Steffen Unger , Fraunhofer FIRST, Berlin, Germany Dan Zachary , CRTE, Esch-sur-Alzette, France
G1.2	Session: Integration of heterogeneous data and environmental models (with special emphasis on “Integration of data and models”)	Isabelle Herlin , INRIA, Paris Roberto San Jose , UPM, Madrid, Spain Steffen Unger (contact person) , Fraunhofer FIRST, Berlin, Germany Dan Zachary , CRTE, Esch-sur-Alzette, France
G3	Session: Semantics and the environment	Ioannis Athanasiadis (lead) , University of Thrace, Xanthi, Greece Sasa B. Nestic , University of Lugano, Switzerland Ferdinando Villa , University of Vermont, Burlington, USA Andrea Emilio Rizzoli , IDSIA, Manno, Switzerland (contact person)
G4	Workshop: Machine Learning for Environmental Data: Concepts, Applications, and Software	Mikhail Kanevski , Professor, University of Lausanne, Switzerland
G5	Workshop: The future of semantic technologies in environmental research	Andrea Emilio Rizzoli (lead) , IDSIA, Manno, Switzerland Gerald Schimak , Forschungszentrum Seibersdorf /IT, Austria Tomás Pariente-Lobo Sasa Nestic , University of Lugano, Switzerland

H - Socio-Environmental Systems		Stream Facilitator: Nina Schwarz
H2	Session: Human decisions in agent-based models for natural resource use	Birgit Müller, Dr. / Jürgen Groeneveld / Nina Schwarz , Helmholtz-Centre for Environmental Research - UFZ, Germany
H3	Session: Modelling responses to shocks in coupled socio-ecological systems	Gary Polhill , The James Hutton Institute, Aberdeen, UK Tatiana Filatova (contact person), University of Twente, Enschede, The Netherlands
H4	Workshop: Opportunities and challenges of modelling for resilience thinking and ecosystem stewardship	Maja Schlüter , Leibniz Institute of Freshwater Ecology and Inland Fisheries - IGB, Berlin, Germany Birgit Müller / Karin Frank , Helmholtz Centre for Environmental Research - UFZ, Leipzig, Germany
H5	Workshop: On processes, patterns and interactions of urban shrinkage – how do we approach a challenging spatial development using models?	Dagmar Haase , Professor, Humboldt University Berlin & Helmholtz Centre for Environmental Research – UFZ, Germany Nina Schwarz / Annegret Haase / Dieter Rink / Sigrun Kabisch , Helmholtz Centre for Environmental Research – UFZ, Germany
H6	Workshop: Human decisions in agent-based models (ABM) for natural resource use – need for protocols	Birgit Müller, Dr. / Jürgen Groeneveld , Helmholtz-Centre for Environmental Research UFZ, Leipzig-Halle, Germany Nina Schwarz , Helmholtz-Centre for Environmental Research UFZ, Leipzig-Halle

I - Issues in Water Resources Management		Stream Facilitator: Martin Volk
I1	Session: Environmental fluid mechanics – theoretical, numerical and experimental approaches	<p>Carlo Gualtieri, PhD Assistant Professor, University of Napoli Federico II, Italy D.T. Mihailovic, University of Novi Sad, Serbia N. Mole, University of Sheffield, UK P.A. López Jiménez, Universidad Politécnica de Valencia, Spain B. Blocken, Eindhoven University of Technology, The Netherlands</p>
I2.1	Session: Water management and planning - Models for unique institutional, economic, and geographic contexts	<p>Julien Harou, University College London, UK Andrea Castelletti, Institute for Water and Environmental Engineering (IIAMA) and Politecnico di Milano, Italy Manuel Pulido Velázquez, Universitat Politècnica de València, Spain Ejaz Qureshi, CSIRO, Commonwealth Scientific and Industrial Research Organisation, Australia</p>
I2.2	Session: Water management and planning - Tools and methods for making decisions with uncertainty and complexity	<p>Julien Harou, University College London, UK Andrea Castelletti, Institute for Water and Environmental Engineering (IIAMA) and Politecnico di Milano, Italy Manuel Pulido Velázquez, Universitat Politècnica de València, Spain Ejaz Qureshi, CSIRO, Commonwealth Scientific and Industrial Research Organisation, Australia</p>
I3	Session: Application of scenarios to support national and international environmental policies to govern freshwater resources	<p>Ilona Bärlund, Helmholtz Centre for Environmental Research – UFZ, Magdeburg, Germany Katri Rankinen, Finnish Environment Institute, Helsinki, Finland</p>
I4	Session: Bridging the gap - monitoring and modelling strategies for improving process knowledge and environmental management	<p>Martin Volk, Dr., UFZ- Helmholtz Centre for Environmental Research, Leipzig, Germany Ann van Griensven, 2 UNESCO-IHE, Delft, The Netherlands</p>
I5	Session: Use of models for integrated management of urban water systems	<p>Lluís Corominas (contact person), ICRA, Spain Peter Vanrolleghem, Uni Laval, Québec Joaquín Comas, Uni of Girona, Spain Scientific committee Benedetti, Lorenzo. Waterways srl, Italy Butler, David. Uni of Exeter, UK Comas, Joaquim. Uni of Girona, Spain Corominas, Lluís. ICRA, Spain Jeppsson, Ulf. Lund Uni, Sweden Mannina, Giorgio. Uni di Palermo, Italy Martin, Cristina. Uni Laval, Québec Muschalla, Dirk. ITWH GmbH, Germany Nopens, Ingmar. Ghent Uni, Belgium Porro, Jose. Malcolm Pirnie, US Rieckermann, Jörg. EAWAG, Switzerland Rodríguez-Roda, Ignasi. ICRA, Spain Schuetze, Manfred. IFAK, Germany Vanrolleghem, Peter. Uni Laval, Québec</p>

J - Young Academics		Stream Facilitator: Dagmar Bankamp
J1	Workshop: Elsevier author workshop: getting published, getting cited in international ecological scientific journals	Sandra Broerse ; ELSEVIER, Amsterdam, The Netherlands Brian Fath , Towson University and International Institute for Applied Systems Analysis, USA Tony Jakeman ; Australian National University (ANU), Canberra, Australia
J2	Workshop: Use of models for integrated management of urban water systems	Martin Volk , UFZ- Helmholtz Centre for Environmental Research, Leipzig, Germany Sven Lautenbach ; UFZ- Helmholtz Centre for Environmental Research, Leipzig, Germany
J3	Student and young researcher workshop / meeting of young academics	Anna Cord , Department Computational Landscape Ecology, Helmholtz Centre for Environmental Research GmbH - UFZ Permoserstraße 15, 04318 Leipzig, Germany Francesco M. Falcieri , PhD, CNR - ISMAR, Arsenale-Tesa 104, Castello 2737/F, 30122, Venezia, Italy Markus Stocker , University of Eastern Finland, Kuopio Campus, Department of Environmental Science, Research Group of Environmental Informatics P.O. Box 1627, FI-70211 Kuopio, Finland