

**Climate Change and Regional Response 2013**  
**Climate Change and Regional Response – Impacts and adaptation strategies for public, commercial and private actors**  
**27. May – 29. May 2013, Dresden**

**Preliminary Programme**

**MONDAY morning, 27.05.2013: YOUNG RESEARCHERS FORUM**

<b>09.00</b>	<i>Arrival and registration for Young Researchers Forum, coffee and tea</i>
<b>9:30 - 13.00</b>	<b>YOUNG RESEARCHERS FORUM:</b> <b>"HOW TO ADAPT TO REGIONAL CLIMATE CHANGE? PERSPECTIVES FROM DIFFERENT DISCIPLINES."</b> <i>Dr. Stephanie Hänsel, TU Bergakademie Freiberg, Germany</i>
	Address of welcome <i>Saxon State Ministry for the Environment and Agriculture (SMUL)</i>
	INTRO: Fundamentals and success factors of adaptation to climate change <i>Anne Müller, TU Bergakademie Freiberg, Germany</i>
	WATER SECTOR: Coherence of adaptation measures within the water sector <i>Stefan Minar, University of Leipzig, Institute for Infrastructure and Resources Management, Germany</i>
	AGRICULTURE: Adapting to climate change: A case study on modeling viticultural farming practices under spatial and temporal constraints <i>Etienne Neethling, French National Institute for Agricultural Research, France</i>
	ECONOMY: Factors hampering the adaptation process of SME <i>Jana Herrmann, Technische Universität Dresden, Faculty of Business and Economics, Germany</i>
	TOURISM: Climate adaptation in coastal tourism: The benefit of uncertainties <i>Christian Filies, Die Küsten Union Deutschland</i>
	URBAN PLANNING: Sustainable urban structure types under the circumstances of climate change: An early warning and control system <i>Katharina Koß, University of Leipzig, Department of Urban Development and Construction Management, Germany</i>
	TRANSPORT INFRASTRUCTURE: Climate change impact on vulnerability of asphalt pavements due to the frost damage <i>Dr. Irina Stipanovic Oslakovic, University of Twente, Construction Management and Engineering, the Netherlands</i>
	HEALTH: Ascertainment and monitoring of increasing health risks in cattle due to parasitism caused by global climate change <i>Prof. Dr. med. vet. Janina Demeler, Freie Universität Berlin, Institute of Parasitology and Tropical Veterinary Medicine, Germany</i>
	PRACTICAL EXPERIENCE: Experiences with climate change adaptation activities in Cambodia <i>Sothea Seang, Save Cambodia's Wildlife (SCW)</i>
	DISCUSSION <i>Dr. Stephanie Hänsel, TU Bergakademie Freiberg, Germany</i>

**MONDAY afternoon, 27.05.2013: INTERNATIONAL CONFERENCE DAY 1**

<b>13.00</b>	<i>Arrival and registration</i>
<b>14.00 - 16.00</b>	<b>PLENUM 1</b>
<i>20 min</i>	Climate Change and Regional Response <i>Prof. Dr. Bernhard Müller, Leibniz-Institute of Urban and Regional Ecological Development, Germany</i>
<i>30 min</i>	Mitigation for Adaptation – About making the right decisions <i>Susan Dreyer, Carbon Disclosure Project, Germany</i>
<i>30 min</i>	Title to be confirmed <i>Dr. Christian Korndörfer, City of Dresden</i>
<i>20 min</i>	Climate change: Assessing the associated uncertainty in a regional impact approach <i>Prof. Dr. Christian Bernhofer, Technische Universität Dresden, Germany</i>
<b>15.30 - 16:00</b>	<i>Coffee and tea</i>
<b>16:00 – 18.30</b>	<b>PARALLEL SESSIONS 1</b>
	Session 1a: <b>Modelling climate change – downscaling and uncertainty</b> <i>Prof. Dr. Christian Bernhofer, Technische Universität Dresden, Germany</i>
	<p>Characterization and comparison of mean temperatures and Winkler index evolution between observed and simulated MM5 data (1970-1989) in wine-growing regions of Argentina <i>Fernanda Cabre, Centro de Investigaciones del Mar y la Atmosfera, Argentina</i></p> <p>Mitigation of growing stress on water resources in Brasília/DF - Development of Regional Climate Change Scenarios using Statistical Downscaling <i>Pablo Borges de Amorim, Technische Universität Dresden, Institute of Hydrology and Meteorology, Germany</i></p> <p>Selection and evaluation of regional climate projections for the Model Region Dresden <i>Majana Heidenreich, Stephanie Hänsel, Johannes Franke, Christian Bernhofer, Kathrin Riedel, Technische Universität Dresden, Institute of Hydrology and Meteorology, Germany</i></p> <p>Future drought conditions in the REGKLAM Region <i>Dr. Stephanie Hänsel, Technische Universität Bergakademie Freiberg, Interdisciplinary Environmental Research Centre, Germany</i></p> <p>Comparison of the three stochastic weather generators (GEM6, ClimGen and LARS-WG) for a dry climate in Babylon region /IRAQ <i>Firas Al-Janabi, Technische Universität Dresden, Institute of Hydrology and Meteorology, Iraq</i></p> <p>Addressing challenges and uncertainties for the use of agro-ecosystem models to assess climate change impact and food security across scales <i>Dr. Claas Nendel, Leibniz Centre for Agricultural Landscape Research, Institute of Landscape Systems Analysis, Germany</i></p> <p>Variation of climate projections versus variation of their climate impact – Interpretation of regional projections from the impact perspective <i>Dr. Barbara Köstner, Technische Universität Dresden, Institute of Hydrology and Meteorology, Germany</i></p>

	<p>Session 1b: <b>Economics and Politics of adaptation measures</b>  <i>Prof. Dr. Marcel Thum, Ifo Institute for Economic Research, Germany</i></p>
	<p>Economic opportunities in climate change adaptation: Case study of cities  <i>Jo-Ting Huang, Technische Universität Dresden, Faculty of Business and Economics, Germany</i></p> <p>“Parameterised regional futures” as climate change impact assessment and adaptation methodology for cross-sectoral decision making: Concept and testing  <i>Prof. Dr. Jochen Schanze, Leibniz-Institute of Urban and Regional Ecological Development, Germany</i></p> <p>Who decides? Who takes action? And who pays? Adaptation to climate change at the local, state and national level – The cases of Australia and Germany  <i>Dr. Konar Mutaoglu, University of Queensland, Global Change Institute, Australia</i></p> <p>Adaptation against flooding and sea-level rise in a harbor city: The optimal level of public investment in land and infrastructure quality. A spatial CGE analysis for the city of Hamburg  <i>Prof. Dr. Georg Hirte, Technische Universität Dresden, Institute of Transport &amp; Economics, Germany</i></p> <p>Adaptation to climate change in German municipalities – Requirements, institutionalization and implementation  <i>Esther Chrischilles, Cologne Institute for Economic Research, Germany</i></p>
	<p>Session 1c: <b>Nature conservation – implementing resilience strategies</b>  <i>Dr. Alfred Herberg, Federal Agency for Nature Conservation, Germany</i></p>
	<p>Adapting nature conservation to climate change - A regional strategy developed in the scope of the REGKLAM Model Project  <i>Andre Hilbrich, Leibniz-Institute of Urban and Regional Ecological Development, Germany</i>  <i>Dr. Helmut Schlumprecht, Büro für ökologische Studien, Germany</i></p> <p>Managing protected areas under climate change – Adapting nature conservation in Central Europe  <i>Dr. Marco Neubert, Leibniz-Institute of Urban and Regional Ecological Development, Germany</i></p> <p>Adaptation of protected area management: Methods and challenges  <i>Dr. Christian Wilke, Technische Universität Berlin, Department of Landscape Planning and Development, Germany</i></p> <p>Implications of climate change for FFH-Forest Habitat Types - Examples from the biosphere reserve Vessertal-Thuringian Forest within the framework of the EU-Project HABIT-CHANGE  <i>Dr. Nico Frischbier, Service and Competence Center ThüringenForst, Germany</i></p> <p>Climate change and biodiversity in outdoor recreation destinations – Perception of stakeholders and their motivation to take action  <i>Dr. Gerd Lupp, Leibniz-Institute of Urban and Regional Ecological Development, Germany</i></p> <p>Responsible corporate practices for sustainable environment: The case of Nigeria’s Niger Delta  <i>Dr. Olubayo Oluduro, Adekunle Ajasin University, Faculty of Law, Nigeria</i></p>

**TUESDAY, 28.05.2013: INTERNATIONAL CONFERENCE DAY 2**

<b>08.30</b>	<i>Arrival, coffee and tea</i>
<b>09.00 - 12.30</b>	<b>PARALLEL SESSIONS 2</b>
	Session 2a: <b>Regional adaptation strategies and planning I</b> <i>Prof. Dr. Bernhard Müller, Leibniz Institute of Ecological Urban and Regional Development Germany</i>
	<p>Integrated climate change adaptation programme in the Dresden region – The REGKLAM example  <i>Dr. Gérard Hutter, Leibniz Institute of Ecological Urban and Regional Development, Germany</i></p> <p>Solution-based spatial planning in a comprehensive river management plan: Disaster risk management for Jhuoshuei River, Taiwan  <i>Dr. Yu-Fang Lin, National Science and Technology Center for Disaster Reduction, Taiwan</i></p> <p>Achieving citywide planning goals through Machizukuri: The recent movement in Nagoya city, Japan  <i>Prof. Akito Murayama, Nagoya University, Graduate School of Environmental Studies, Japan</i></p> <p>Adapting to climate change - Tasks and challenges for spatial planning in Lower Saxony  <i>Jan Spiekermann, Carl von Ossietzky University Oldenburg, Institute for Biology and Environmental Sciences, Germany</i></p> <p>Regional adaptation strategies and planning of climate change in Pacific Island Countries  <i>Arunesh Asis Chand, Pacific Centre for Environment &amp; Sustainable Development (PACE-SD), University of the South Pacific (USP), Suva, Fiji</i></p>
	Session 2b: <b>Adaptation strategies for industry sectors and companies</b> <i>Prof. Dr. Edeltraud Günther, Technische Universität Dresden</i>
	<p>How companies think the future: Corporate adaptation strategies to climate change  <i>Julian Meyr, Technische Universität Dresden, Faculty of Business and Economics, Germany</i></p> <p>Corporate Pioneers response to climate change impacts  <i>Tina Schneider, University of Oldenburg, Germany</i></p> <p>Climate change impacts on energy production and energy conversion technologies  <i>Andreas Herrmann, Technische Universität Bergakademie Freiberg, Institute of Thermal Engineering, Germany</i></p> <p>Regional climate adaptation solutions towards resilient energy systems  <i>Sönke Stührmann, University of Bremen, Faculty for Production Engineering, Germany</i></p> <p>What factors affects climate change adaptation? A survey of small and medium businesses  <i>Kristin Stechemesser, Technische Universität Dresden, Faculty of Business and Economics, Germany</i></p> <p>Strategic climate change adaptation: Barriers and challenges  <i>Dr. Michael Walther, University of Kassel, Sustainability Management, Germany</i></p>
	Session 2c: <b>Integrated assessment and management strategies in agriculture and forestry</b> <i>Prof. Dr. Franz Makeschin, Technische Universität Dresden</i>
	<p>KEYNOTE: Ecosystem services- valuation and climate adaptation  <i>Prof. Dr. Bernd Hansjürgens, Centre for Environmental Research, Germany</i></p> <p>Developing multi-scale climate adaptation strategies and practices for farming communities in India, Cambodia and Laos  <i>Dr. Christian Roth, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia</i></p> <p>The consideration of land management for ecosystem services assessment at a landscape scale  <i>Lars Koschke, Technische Universität Dresden, Department of Soil Science and Site Ecology, Germany</i></p>

	<p>Visualisation and quantification of water erosion and its simulation under different land management strategies  <i>Anke Witt, Technische Universität Dresden, Department of Soil Science and Site Ecology, Germany</i></p> <p>Influence of afforestation on landscape pattern and the provision of ecosystem services  <i>Susanne Frank, Technische Universität Dresden, Department of Soil Science and Site Ecology, Germany</i></p> <p>The effects of short rotation coppice on the visual landscape: An investigation for different landscape types in the Hamburg Metropolitan Region  <i>Thiemen Boll, Leibniz University Hannover, Institute of Environmental Planning, Germany</i></p> <p>Integrating agricultural adaptation strategies in regional assessment systems by combining regional crop sequences and agricultural management  <i>Dr. Marco Lorenz, State Agency for the Environment, Agriculture and Geology (LfULG), Germany</i></p> <p>Impact assessment of climate change on agricultural crop yield and irrigation water demand in Thuringia, Germany  <i>Dr. Wilfried Mirschel, Leibniz-Centre for Agricultural Landscape Research (ZALF), Germany</i></p> <p>Challenges of modelling the impact of climate change on bio-economic systems – the example of dairy farming in northwestern Germany  <i>Maria Martinsohn, Johann Heinrich von Thuenen Institute, Institute of Farm Economics, Germany</i></p> <p>Conversion of single-species pine forest stands to species-rich mixed deciduous forests in north-eastern German lowlands – simulation of effects on carbon budget  <i>Michael Janott, Leibniz-Centre for Agricultural Landscape Research (ZALF), Germany</i></p>
	<p>Session 2d: <b>Development and maintenance of urban green infrastructure and open space</b>  <i>Prof. Dr. Wolfgang Wende, Leibniz Institute of Ecological Urban and Regional Development, Germany</i></p>
	<p>Thermal and perceived impact of urban green on thermal comfort on warm summer days in Utrecht, the Netherlands  <i>Wiebke Klemm, Wageningen University, Institute for Environmental Science, the Netherlands</i></p> <p>Green infrastructure and high density built up areas – An Asian example from Nagoya city, Japan  <i>Prof. Dr. Hiroyuki Shimizu, Nagoya University Japan, Department of Architecture, Japan</i></p> <p>Effect modification of the association meteorological variables and mortality by urban climatic conditions in a tropical city: Kaohsiung, Taiwan  <i>Dr. William B. Goggins, Chinese University of Hong Kong, School of Public Health and Primary Care, China</i></p> <p>Green infrastructure – Demands, opportunities and planning approaches for urban climate adaptation  <i>Dr. Stefanie Röbber, Leibniz Institute of Ecological Urban and Regional Development, Germany</i></p> <p>How does urban planning affect micro-climatic extremes? Numerical case studies in the City of Dresden (Saxony/Germany)  <i>Dr. Valeri Goldberg, Technische Universität Dresden, Institute of Hydrology and Meteorology, Germany</i></p> <p>The role of housing companies in the development and maintenance of urban green infrastructure  <i>Prof. Dr. Gabriele Wendorf, Technische Universität Berlin, Germany</i></p>
<p><b>12.30 - 13.30</b></p>	<p>Lunch</p>
<p><b>13.30 - 14.30</b></p>	<p><b>Poster Presentations</b></p>

<b>14.30 - 18.00</b>	<b>PARALLEL SESSIONS 3</b>
	<p>Session 3a: <b>Regional adaptation strategies and planning II</b>  <i>Prof. Dr. Bernhard Müller, Leibniz Institute of Ecological Urban and Regional Development, Germany</i></p>
	<p>Adapting the formal instruments of spatial planning to the challenges of climate change  <i>Meike Albers, HafenCity University Hamburg, Research group „plan B:altic – Climate Change and Spatial Development“, Germany</i></p> <p>Scenario planning to increase adaptive capacity? Lessons from a case study in Rostock, Germany  <i>Bart Jan Davidse, HafenCity University Hamburg, Germany</i></p> <p>KommAKlima - Analysis of health-promoting strategies, processes and instruments for adaptation to climate change in German municipalities at the interface between environment, public health and urban planning  <i>Björn Brei, University of Bielefeld, Faculty of Public Health, Germany</i></p> <p>Assessing climate risks for transport networks by using regional climate projections  <i>Michael Korn, Alfen Consult GmbH, Germany</i></p> <p>Regional thermal energy network based on waste energy with desiccants:  Pilot project within a climate envelope  <i>Dr. Arda Karasu, Technische Universität Berlin, Building Technology and Design, Germany</i>  <i>Dr. Martin Buchholz, Technische Universität Berlin, Building Technology and Design, Germany</i></p> <p>Addressing resilience notion for planning governance in facing climate uncertainty: A comparative study of Kaohsiung (Taiwan) and Rotterdam (the Netherlands)  <i>Dr. Peiwen Lu, Delft University of Technology, Department of Urbanism, the Netherlands</i></p> <p>Estimating the effects of various adaptation strategies on the urban climate of Hamburg using high-resolution mesoscale models  <i>Ronny Petrik, University of Hamburg, Meteorological Institute, Germany</i></p> <p>Participatory development of a regional roadmap to a resilient and climate-proof energy system  <i>Dr. Jakob Wachsmuth, University of Bremen, Germany</i></p>
	<p>Session 3b: <b>Development and maintenance of the built environment</b>  <i>Prof. Dr. Bernhard Weller, Technische Universität Dresden, Germany</i></p>
	<p>Climate adaptation of existing office buildings  <i>Marc-Steffen Fahrion, Technische Universität Dresden, Faculty of Civil Engineering, Germany</i></p> <p>Vulnerability Classification of Buildings Regarding Heavy Rainfall  <i>Johannes Nikolowski, Leibniz Institute of Ecological Urban and Regional Development, Germany</i></p> <p>Building system engineering solutions for climate change adaptation  <i>Prof. Dr. Jens Bolsiu, Zittau-Görlitz University of Applied Sciences, Germany</i></p> <p>Floating houses - a regional adaption strategy in endangered and not endangered regions by water in time of global climate change  <i>Horst Stopp, Lausitz University of Applied Sciences, Germany</i></p> <p>Case studies regarding the economic efficiency of flood protection measures  <i>Peter Zeisler, Ruiz Rodriguez + Zeisler + Blank Ingenieurgesellschaft, Wiesbaden, Germany</i></p> <p>Adapting buildings to climate change – activities of the insurance industry  <i>Dr. Mingyi Wang, German Insurance Association (GDV) Berlin, Germany</i></p>

	<p>Session 3c: <b>Regional water balance</b>  <i>Prof. Dr. Jörg Matschullat, Technische Universität Bergakademie Freiberg, Germany</i></p>
	<p>Changes in frequency and duration of wet and dry periods in the REGKLAM region using ENSEMBLES data  <i>Susann Mehler, Stephanie Hänsel, Technische Universität Bergakademie Freiberg, Germany</i></p> <p>Do large-scale soil conservation measures threaten water supply in dryland areas of NW China?  <i>Lulu Zhang, Technische Universität Dresden, Institute of Soil Sciences and Site Ecology, Germany</i></p> <p>Contribution of decentralized wastewater treatment to sustainable water management in the Eberswalde region under climate change  <i>Anna Bugey, Eberswalde University for Sustainable Development, Faculty of Landscape Management and Nature Conservation, Germany</i></p> <p>Assessment of potential climate change impacts on the regional water resources of Lusatia  <i>Ina Pohle, Brandenburg University of Technology Cottbus, Chair of Hydrology and Water Resources Management, Germany</i></p> <p>COFFEE BREAK</p> <p>Scenario-based approach for adaptation in the water sector – Case of Santiago de Chile  <i>Laura Simon, Karlsruhe Institute of Technology, Germany</i></p> <p>Impacts of climate change on small scale catchments in Dresden: Results from different regionalized climate projections  <i>Daniel Leistner, Technische Universität Bergakademie Freiberg, Germany</i></p> <p>Comparison of low flow indicators of small lowland catchments of Northeast Germany  <i>Björn Thomas, Leibniz Centre for Agricultural Landscape Research (ZALF), Germany</i></p> <p>Uncertainties of vadose zone parameterization and their impact on climate change predictions for a small experimental catchment  <i>Stefan Werisch, Technische Universität Dresden, Institute of Hydrology and Meteorology, Germany</i></p>

**WEDNESDAY, 29.05.2013: INTERNATIONAL CONFERENCE DAY 3**

<b>8.30</b>	<i>Arrival, coffee and tea</i>
<b>9.00 - 12.30</b>	<b>PARALLEL SESSIONS 4</b>
	Session 4a: <b>Implementing adaptation programs and options – good practice</b> <i>Dr. Gérard Hutter, Leibniz Institute of Ecological Urban and Regional Development, Germany</i>
	Identifying good practices in adapting to climate change <i>Christian Kind, adelphi research gGmbH, Germany</i> Adaptation to the impact of climate change within the electricity sector in Santiago de Chile <i>Klaus- Rainer Bräutigam, Karlsruhe Institute of Technology, Institute for Technology Assessment and Systems Analysis (ITAS) , Germany</i> Urban water management: From adaptation research to local implementation <i>Heide Stephani-Pessel, Eberswalde University for Sustainable Development, Faculty of Landscape Management and Nature Conservation, Germany</i> Implementing adaptation programs and options - Good practice <i>Katrin Barth, Kerstin Krellenberg, Centre for Environmental Research (UFZ), Germany</i>
	Session 4b: <b>Urban water systems – challenges for managing technical systems and natural resources</b> <i>Prof. Dr. Peter Krebs, Technische Universität Dresden, Germany</i>
	Improving stormwater management in the context of Mexican middle-sized cities. Case study in Tepic, Mexico <i>Gabriela Espinosa-Gutiérrez, Technische Universität Hamburg-Harburg, Institute of Wastewater management and Water Protection, Mexico</i> Water Harvesting: Climate change adaptation measure in the arid Khartoum? <i>Wifag Hassan Mahmoud, Cologne University of Applied Sciences, Institute for Technology in the Tropics, Germany</i> Title to be confirmed <i>Dr. Irene Slavik, Technische Universität Dresden, Germany</i> further Speakers to be confirmed
	Session 4c: <b>Urban air quality and bioclimate</b> <i>Dr. Valeri Goldberg, Technische Universität Dresden, Germany</i>
	Heat stress for mobile pedestrians in Dresden: Modeling and measuring the spatial and temporal variations of exposure <i>Dr. Astrid Ziemann, Technische Universität Dresden, Germany</i> Thermal sensitivity assessment of settlement areas <i>Dr. Tobias Krüger, Leibniz Institute of Ecological Urban and Regional Development, Germany</i> Urban air quality, climate and health – can green and blue spaces be moderators? <i>Dr. Thomas Classen, University of Bielefeld, School of Public Health, Germany</i> Weather condition - Air quality relationships <i>Silvia Leise, Technische Universität Bergakademie Freiberg, Interdisciplinary Environmental Research Center, Germany</i> Climate change impact on size-segregated PM10 mass concentration and composition in Dresden (Germany) by 2100 – An estimate <i>Dr. Gerald Spindler, Leibniz Institute for Tropospheric Research, Germany</i>
<b>12.30 - 13.30</b>	<i>Lunch</i>
<b>13.30 - 15.00</b>	<b>CONCLUDING SESSION (PLENARY)</b> <i>to be updated</i>