

International Conference on Natural Hazards and Risks in a Changing World

Thursday, 4th October 2018

- 8:00 – 9:00 Registration
 9:00 – 9:30 Welcome and opening by Oliver Günther (president of UP)
 9:30 – 10:15 **Keynote Speech “Changing systems” by Prof. Hans Joachim Schellnhuber** (Potsdam Institute for Climate Impact Research (PIK) Potsdam), Moderation: Prof. Axel Bronstert
 10:15 – 10:45 Coffee break
 10:45-12:45 Parallel sessions „Changing systems: Hydro-Climatological Hazards“ and „Changing systems: Geophysical Hazards“

	Session 1: „Changing systems: Hydro-Climatological Hazards“ (Convener: Dr. Heidi Kreibich)	Session 2: „ Changing systems: Geophysical Hazards“ (Convener: Prof. Fabrice Cotton)
10:45-11:05	Martins, Eduardo Sávio Passos Rodrigues, Prof., Fortaleza, Brazil <i>Development of Droughts in Brazil in the last years (invited Talk)</i>	Krawczyk, Charlotte, Prof., Potsdam, Germany <i>Sinkhole characterization with supplementing geophysical methods: the joint project SIMULTAN</i>
11:05-11:25	Schulze, Roland, Prof., Pietermaritzburg, South Afrika <i>From Fire to Frosts to Floods, and from Droughts to Diseases to Discomfort: Prognoses into the Future of Climate Drivers in an Already Climate Stressed South Africa</i>	Bayona Viveros, José Antonio, Msc., Berlin, Germany <i>A regionalized strain-rate based seismicity model for subduction zones</i>
11:25-11:45	Krishnapillai, Shadananan Nair, PhD, Kochi, India <i>Increasing severity of floods associated with changing climate in the coastal megacities of India</i>	Ziebarth, Malte Jörn, Msc., Potsdam, Germany <i>A Physics-Based PSHA Conceptual Workflow for Low-Strain Areas</i>
11:45-12:05	Mosimann, Markus, Bern, Switzerland <i>Flood risk (d)evolution: disentangling key drivers of flood risk change with a retro-model experiment</i>	Kotha, Sreeram Reddy, Msc., Potsdam, Germany <i>Variabilities and Uncertainties in Seismic Ground-Motion Prediction: Implications on Seismic Hazard Assessment</i>
12:05-12:25	Piroth, Klaus, Dr., Alsbach, Germany <i>The influence of transient flood risk factor on the expectation of loss</i>	Razafindrakoto, Hoby, Dr., Potsdam, Germany <i>Coupling Empirical and Simulation-based Ground Motion Model</i>
12:25-12:45	Bronstert, Axel, Prof., Potsdam, Germany <i>Flash-Floods: more often, more severe, more damaging? An analysis of hydro-geo-environmental conditions and anthropogenic impacts</i>	Öztürk, Ugur, Msc. Potsdam, Germany <i>Learning more to predict landslides in different scales (Regional to local)</i>

12:45 – 14:00 Lunch

14:00-14:45 **Keynote Speech “Linking hazard and vulnerability” by Prof. Jeroen Aerts** (VU Amsterdam, Institute for Environmental Studies), Moderation: Prof. Annegret Thielen

14:45-16:00 Poster session (incl. coffee break)

16:00-18:00 Parallel sessions „Linking Hazard and Vulnerability“ and „Modelling and Data“

	Session 3: „Linking Hazard and Vulnerability“ (Convener: Prof. Ariane Walz)	Session 4: „Modelling and Data“ (Convener: Dr. Gert Zöller)
16:00-16:20	Straub, Daniel, Prof., Munich, Germany <i>Adaptability as a strategy to manage natural hazards in an uncertain future</i>	Ulbrich, Thorsten, Dr., Kleinmachnow, Germany <i>EMRA: A Decision support system for monitoring, warning and risk assessment of weather extremes for agriculture</i>
16:20-16:40	Kron, Wolfgang, Dr., Neuried, Germany <i>Efficiency of flood protection measures</i>	Bürger, Gerd, Dr., Potsdam, Germany <i>Sub-hourly extreme rainfall scenarios (following Clausius-Clapeyron)</i>
16:40-17:00	Sillmann, Jana, Dr. Oslo, Norway <i>Translating flood disasters into the future: a storyline approach to build flood resilience</i>	Sieg, Tobias, Msc., Potsdam, Germany <i>Damage estimation for hydro-meteorological hazards at seamless spatial scales</i>
17:00-17:20	Baldassarre, Giuliano, Prof. Uppsala, Sweden <i>Human influence and response to socio-natural hazards</i>	Assmann, André, Dr., Heidelberg, Germany <i>Basic European Assets Map, a Copernicus Service addressing cross border activities</i>
17:20-17:40	Kreibich, Heidi, Dr., Potsdam, Germany <i>What approaches and data are needed to better understand trends in drought and flood impacts?</i>	Göber, Martin, Dr., Berlin, Germany <i>Forecasting Weather Related Fire Brigade Operations by linking meteorological forecasts with vulnerability indicators</i>
17:40-18:00	Rodda, Harvey, Dr., Chalgrove, UK <i>The 1968 floods in South-East of the United Kingdom: A 50 Year Retrospective</i>	Bergner, Andreas, Dr., Potsdam, Germany <i>Improving hazard communication using online map services and interactive visualization approaches: experiences from cooperation with administration partners in Saxony (Germany), Argentina and Colombia</i>

18:00 End of Plenary

19:00 Conference Dinner

20:00 Dinner speech by Prof. Frank Scherbaum

Friday, 5th October 2018

- 9:00 – 9:45 **Keynote Speech “Data Science” by Prof. Matthias Holschneider** (University of Potsdam, Institute of Mathematics), Moderation: Prof. Frank Scherbaum
- 9:45 – 10:00 **DKKV Award „preparedness 2030“**, Moderation: Prof. Frank Scherbaum
- 10:00 – 10:30 Coffee break
- 10:30 – 12:30 Parallel sessions „Exposure and Risk Management“ and „Data Science and Information Systems“

	Session 5: „Exposure and Risk Management“ incl. awardee (Convener: Prof. Annegret Thieken)	Session 6: „Data Science and Information Systems“ (Convener: Dr. Kristin Vogel)
10:45-11:05	Lange, Stefan, Dr., Potsdam, Germany <i>Climate impact simulations indicate that historical warming has at least tripled global population annually exposed to extreme events</i>	Bedford, Jonathan, Msc., Potsdam, Germany <i>Developing Machine Learning Approaches for the Seismological data in Northern Chile</i>
11:05-11:25	Torresan, Silvia, Dr., Venice, Italy <i>Assessing sea level rise risks in changing coastal environments: a national assessment supporting disasters management and climate change adaptation</i>	Fiedler, Bernhard, Msc., Potsdam, Germany <i>Change-point detection for seismicity parameter</i>
11:25-11:45	Löschner, Lukas, Vienna, Austria <i>Demographic Change and Natural Hazard Risk Management % a disregarded link? On overview of policy perspectives from Austria</i>	Steger, Stefan, Dr., Bolzano-Bozen, Italy <i>Why omnipresent input data flaws may hamper a dynamic perspective in data-driven landslide susceptibility modelling</i>
11:45-12:05	DKKV awardee	Haghighi, Mahmud, Msc., Potsdam, Germany <i>Country-scale survey of anthropogenic hazard using Sentinel-1 big data</i>
12:05-12:25	Schüller, Lynn, Msc., Bonn, Germany <i>ESPREsSO: Enhancing synergies for disaster prevention in the European Union</i>	Veh, Georg, Msc., Potsdam, Germany <i>Unchanged frequency of Himalayan glacial lake outburst floods since the late 1980s</i>
12:25-12:45	Schweizer, Pia-Johanna, Dr., Potsdam, Germany <i>Systemic Risks: Concepts and Suggestions for Risk Governance</i>	Rözer, Viktor, Msc., Potsdam, Germany <i>Probabilistic multi-variate framework for reliable pluvial flood loss estimation</i>

- 12:30 – 13:30 Lunch
- 13:30-14:30 Poster Session (incl. coffee)
- 14:30-15:15 **Keynote Speech “Cascade and Multi-Hazard” by Prof. Jakob Rhyner** (United Nations University, Institute for Environment and Human Security), Moderation: Prof. Oliver Korup

15:15-16:15 Session „Cascade and Multi-Hazard“

	Session 7: „Cascade and Multi-Hazard“ (Convener: Prof. Oliver Korup)
15:15-15:35	Geiß, Christian, Dr., Oberpfaffenhofen, Germany <i>From single-hazard to multi-hazard risk assessment including the analysis of dynamic exposure and vulnerability aimed at the modelling of cascading effects</i>
15:35-15:55	Pittore, Massimiliano, Dr., Potsdam, Germany <i>Perspective and limitations of Multi-Risk Assessment</i>
15:55-16:15	Tilloy, Alois, Msc., London, UK <i>Towards an event-based quantitative model for interacting hazard events</i>

16:15-17:00 Discussion and Goodbye (Prof. Annegret Thieken and Prof. Axel Bronstert)