

Dimensions of Disaster Risk Reduction and Societal Resilience in a Complex World

**8TH CONFERENCE OF THE INTERNATIONAL SOCIETY
FOR INTEGRATED DISASTER RISK MANAGEMENT**
in cooperation with
**NORDRESS – NORDIC CENTRE OF EXCELLENCE
ON RESILIENCE AND SOCIETAL SECURITY**
23-25 AUGUST 2017, HARPA, REYKJAVIK, ICELAND

IDRiM2017 – PROGRAM



NORDRESS

Nordic Centre of Excellence
On Resilience and Societal Security



WELCOME TO IDRiM2017

Dear IDRiM2017 delegates and other guests!

Welcome to IDRiM2017, the 8th Conference of the International Society for Integrated Disaster Risk Management hosted in cooperation with NORDRESS - Nordic Centre of Excellence on Resilience and Societal Security.

We set out to create an event that brings together a wide selection of experts on all aspects of disasters, risk, and resilience, ranging from practitioners to academics in all relevant fields.

The scientific and organizing committees are proud to present this program that demonstrates the wide interest that IDRiM2017 has aroused.

In three days you will have the choice to attend 29 oral sessions, with up to 6 presentations each, 5 plenary invited lectures, plenary panel discussions, and poster sessions. We would like to point out the three special YSS sessions where young scientists present their work both with short oral introductions and posters. All YSS presenters participate in the YSS Best Presentation Competition. We are all on the jury and I urge you to take part and evaluate our young colleagues' presentations and provide them with useful comments and feedback.

Last but not least, we have invited Iceland's leading TV news editor, Ms. Þóra Arnórsdóttir, to conduct plenary interviews with selected experts on different aspects of disasters and resilience. This is a new feature in the IDRiM conference program that we are proud to introduce.

On Thursday afternoon a field trip is arranged that traverses an area prone to a variety of natural hazards, including earthquakes, river/ocean/glacial outburst floods, and volcanic eruptions. We will travel in 3 buses, each guided by an expert in social and physical geography, geology and natural disasters.

This short version of the program is the only printed material offered, but online you will find a full pdf version of the program, listing all authors, should you wish to print that. Also there is an interactive electronic version, which includes all abstracts.

On behalf of my wonderful colleagues in the scientific-, YSS-, and organizing committees, as well as the boards of directors of the IDRiM Society and NORDRESS, I thank you for coming to Iceland and sharing your findings and experience with us.

May IDRiM2017 prove informative, challenging and enjoyable!

With best regards,



Dr. Guðrún Pétursdóttir
Chair IDRiM2017 Organizing Committee

Day 1 Wednesday 23 August 2017

Room Time	1 - SILFURBERG B	2 - BJÖRTULOFT	3 - RÍMA A	4 - RÍMA B
	SILFURBERG B			
09:00-09:45	Opening Ceremony Guðrún Pétursdóttir, Chair, Local Organizing Committee Adam Rose, IDRIIM Society President Ólafur Eggertsson farmer and entrepreneur presents his film on the Eyjafjallajökull eruption in 2010			
09:50-11:20	Invited Plenary Lectures Chair: <i>Guðrún Gísladóttir</i> Keynote 1 John Richardson: More than three liters of water- Helping people prepare for the true consequences of disasters Keynote 2 Magnús Tumi Guðmundsson: Volcanic hazards in Iceland, past, present and prospects for the future			
11:20-11:40	Break and refreshments			
11:40-13:10	SILFURBERG B	BJÖRTULOFT	RÍMA A	RÍMA B
Parallel Sessions 1	P1 Chair: <i>Peter van der Keur</i> Earthquake preparedness 1. <u>Michele M. Wood</u> : Community engagement for global coordinated earthquake drill 2. <u>Naoki Matsumura</u> : What is "Safety" against earthquake? A case study on people's "risk" perception and uncertain "safety" 3. <u>Tadashi Ise</u> : Generation from Information to Knowledge in Disaster Response - Based on information support of 2016 Kumamoto earthquake, Japan -	P2 Chair: <i>Guðmundur Freyr Úlfarsson</i> Volcanic Hazards 1. <u>Bergún Arna Óladóttir</u> : Catalogue of Icelandic volcanoes (CIV) 2. <u>Guðrún Gísladóttir</u> : Coping with and recovering from disasters: the 2010 Eyjafjallajökull experience 3. <u>Xochilt Hernandez</u> : Unseen but not unfelt: resilience to persistent volcanic emissions (UNRESP). Case study from Masaya volcano, Nicaragua	P3 Chair: <i>Guðrún Jóhannesdóttir and Mohsen Ashtiany</i> Risk assessment and risk analysis 1. <u>Sigrún Karlsdóttir</u> : Risk assessment of natural hazards in Iceland – an overview 2. <u>Asjad Naqvi/Junko Mochizuki</u> presents: Risk-Adjusted Human Development Index 3. <u>Bjorn Karlsson</u> : The development of a methodology for risk and capability assessments within the Baltic Sea Region	P4 Chair: <i>Deanne Bird</i> Mental and physical health related impacts of natural disasters 1. <u>Arna Hauksdóttir</u> : Mental health effects following the eruption in Eyjafjallajökull volcano in Iceland 2. <u>Edda Björk Þórðardóttir</u> : Psychosocial Support After Natural Disasters in Iceland- Implementation and Utilization 3. <u>Heiðrún Hlöðversdóttir</u> : Long-term health effects of the Eyjafjallajökull volcanic eruption: A prospective cohort study in 2010 and 2013

	<p>4. <u>Kiyomine Terumoto</u>: Issues of wide-area earthquake disaster management; a case study on the Nankai Trough earthquake in Japan</p> <p>5. <u>Mahmoud Hosseini</u>: Opportunities and Challenges for Compulsory Earthquake Insurance in Seismic Developing Countries – Case Study of Iran</p>	<p>4. <u>Ásthildur Bernharðsdóttir and Jónas Elíasson</u>: Volcanic threat challenges in Iceland compared to Japan</p> <p>5. <u>Masamitsu Onishi</u>: A methodology for normative decision makings on evacuation order from volcanic disasters with the consideration of unforeseen risks</p>	<p>4. <u>Clotilde Saint-Martin</u>: A bottom-up approach for flood exposure assessment to provide a further insight into flood-related damage in South of France</p> <p>5. <u>Shoko Miyagawa</u>: Introduction and evaluation of an IT-based health assessment system for disaster relief organization</p> <p>6. <u>Sina Pfister</u>: Making disaster studies personal - re-considering resilience as a mental constitution</p>	
13:10-14:10	Lunch			
14:10-15:40	SILFURBERG B	BJÖRTULOFT	RÍMA A	RÍMA B
Parallel Sessions 2	<p>P5 Chairs: <i>John Richardson and Hideyuki Shiroshita</i> Children and disasters</p> <p>1. <u>Arna Hauksdóttir</u>: Health effects of the Eyjafjallajökull volcanic eruption among children: A prospective cohort study in 2010 and 2013</p> <p>2. <u>Edda Björk Þórðardóttir</u>: Sleep disturbances in adulthood among childhood avalanche survivors: Risk and resilience factors</p> <p>3. <u>Tóra Petersen</u>: School based intervention following disasters</p>	<p>P6 Chairs: <i>Lisa Van Well and Michinori Hatayama</i> Early warning and risk communication</p> <p>1. <u>Reija Ruuhela</u>: Experiences on weather warnings related to direct health impacts</p> <p>2. <u>Michele M. Wood</u>: Optimizing imminent threat mobile alerts to motivate protective action</p> <p>3. <u>Gunhild Setten</u>: Of men and materialities. A gendered reading of news media coverage of a wildfire in Norway in 2014.</p>	<p>P7 Chair: <i>Junko Mochizuki</i> Resilience of humanitarian sector in a complex world</p> <p>1. <u>Junko Mochizuki</u>: Will humanitarian games affect people's information seeking behavior?</p> <p>2. <u>Hideyuki Ito</u>: Logistics of relief supplies for the Nankay Megatrast earthquake</p> <p>3. <u>Miho Satoh</u>: Information sharing tasks in Disaster relief assistance.</p>	<p>P8 Chairs: <i>Ana Maria Cruz and Elisabeth Krausmann</i> Natech risk management: Dealing with changeability and uncertainty</p> <p>1. <u>Elisabeth Krausmann</u>: NaTech risk management in Europe -lessons learned.</p> <p>2. <u>Irasema Alcantara Ayala</u>: The Fukushima DAI-ICHI Nuclear power plant Na Tech accident</p> <p>3. <u>Eric Piatyszek</u>: Flood Induced NaTech events</p>

	<p>4. <u>Atle Dyregrov</u>: Mental health interventions for children after disasters</p> <p>5. <u>Atle Dyregrov and Kari Dyregrov</u>: Family gatherings for bereaved after disasters</p>	<p>4. <u>Mayumi Sakamoto</u>: Establishing Risk Communication System among Disaster Researchers, Mass Media and Government</p> <p>5. <u>Silje Aurora Andressen</u>: You need to be where the fire happens': the construction of the 'local' in Norwegian newspapers after the fire in Lærdal, Norway</p> <p>6. <u>Hans Jørgen Henriksen</u>: Building trust in water governance through intelligent water infrastructure</p>	<p>4. <u>Rasmus Dahlberg</u>: The turn towards resilience in Danish emergency management</p> <p>5. <u>Repaul Kanji</u>: Creating disaster resilience through CSR: an ISM approach</p> <p>6. <u>Andrew Mc Lean</u>: The impact of leadership on community engagement, and the role of behavioral health during disaster-a community review</p>	<p>4. <u>Ana Maria Cruz</u>: Natech Risk Assessment to inform Community Evacuation Planning</p> <p>5. <u>Akiko Murakami</u>: An actualization of operational risks using text analytics approach in Fukushima power plant disaster</p>
15:40-16:00	Break with refreshments			
16:00-16:45	<p>SILFURBERG B</p> <p>Plenary Interview How can we prepare ourselves for disasters? Ms Þóra Arnórsdóttir interviews Atle Dyregrov, John Richardson, Gunhild Setten</p>			
16:45-17:00	Break			
17:00-18:00	<p>SILFURBERG B</p> <p>P9 Chairs: <i>Guðrún Gísladóttir and Yasamin Izadkhan</i> Tourism and disaster preparedness: a forgotten group</p> <p>1. <u>Thalia Balkaran</u>: Assessing the Vulnerability of Tourism-related Livelihoods to Tropical Cyclones in Small Island Developing States: a comparison of Tobago and Jamaica</p> <p>2. <u>Deanne Bird</u>: Tourism survival? The balance of money and risk</p>	<p>BJÖRTULOF</p> <p>P10 Chair: <i>Adam Rose</i> Terrorism and integrated disaster risk management</p> <p>1. <u>Kurt Petersen</u>: Terrorism and Crisis Management Approaches in the Swedish Crisis Management System</p> <p>2. <u>Martin Sjoen</u>: Responding to threats of home-grown terrorism: findings from public sector prevention efforts on issues of radicalization and violent extremism</p>	<p>RÍMA A</p> <p>P11 Chairs: <i>Katsuya Yamori and Björn Karlsson</i> Action research of community based disaster management</p> <p>1. <u>Katsuya Yamori</u>: Action research towards effective disaster risk communication</p> <p>2. <u>James Goltz</u>: Community-Based Participation for Effective Earthquake and Tsunami Warning in Japan and the United States</p>	<p>RÍMA B</p> <p>P12 Chairs: <i>Ingibjörg Lilja Ómarsdóttir and Andrew Collins</i> Social welfare</p> <p>1. <u>Ragneiður Hergeirsdóttir</u>: Árborg 2008: Local social services responding to earthquake and financial crisis.</p> <p>2. <u>Shigeru Kakumoto</u>: Happiness and Disaster for Human by the Comparison of Regions with Different Culture of Disaster</p>

	<p>3. <u>Yasamin Izadkhah</u>: Towards Identifying the Roles of Local Supermarket Managers in Disaster Preparedness and Response</p>	<p>3. <u>Adam Rose</u>: The economic consequences analysis tool (E-CAT)</p> <p>4. <u>Manas Chatterji</u>: Role of Peace Science in Disaster Management.</p>	<p>3. <u>Kaori Kitagawa</u>: Linking community-based preparedness engagement with social ecosystem thinking: a case from Japan</p> <p>4. <u>Nadejda Komendantova</u>: Participatory governance and community engagement into decision-making processes on infrastructure deployment</p>	<p>3. <u>Guðný Björk Eydal</u>: Local Social Services in Nordic Countries in Times of Disaster</p> <p>4. <u>Sigurjón Baldur Hafsteinsson</u>: Trauma and Welfare: Volcanic eruptions and community transformation</p>
18:00-18:15	Break			
18:15-19:15	<p>SILFURBERG B</p> <p>Plenary Panel Discussion Cascading Impacts of Natural Hazards Chair: <i>Norio Okada</i> Ana Maria Cruz, Jónas Elíasson, Magnús Tumi Guðmundsson, Ortwin Renn, Guðmundur Freyr Úlfarsson</p>			
19:15 – 20:30	IDRiM Society General Assembly IDRiM Research, Service and Implementation Awards			

Day 2 Thursday 24 August 2017

Room Time	1 - SILFURBERG B	2 - BJÖRTULOFT	3 - RÍMA A	4 - RÍMA B
	SILFURBERG B Invited Plenary Lecture Chair: <i>Hirokazu Tatano</i> Keynote 3: Ortwin Renn: Coping with complex risk: New challenges for risk governance			
08:30-09:15	Break			
09:15-09:25	SILFURBERG B	BJÖRTULOFT	RÍMA A	RÍMA B
09:25-10:55	P13 Chairs: <i>Haakon Lein and Subho Samaddar</i> Risk and communication 1. <u>Paivi Lujala</u> : Norwegian perceptions of climate change: the role of extreme events and personal experiences 2. <u>Mamoru Yoshida</u> : The relationship between evacuation preparedness and evacuation intention 3. <u>Subhajyoti Samaddar</u> : "We- Feeling" in Community Based Disaster Risk Management: Can we integrate Mind, Self and Community? 4. <u>Brenda Murphy</u> : Knowledge mobilization: Influencing climate change knowledge, attitudes and behaviors 5. <u>Uta Reichardt</u> : Ash clouds over Europe: Volcanic ash scenarios and potential impacts on air traffic	P14 Chairs: <i>Mika Shimizu and Allen Clark</i> Risk and communication 1. <u>Mika Shimizu</u> : Culture, Organization and Public Policy: How to Communicate Uncertainties and Risk Information 2. <u>James Goltz</u> : Operational Earthquake Forecasting: A Risk Communication Challenge 3. <u>Ana Maria Cruz</u> : Challenges in risk information disclosure in the context of Natech hazards 4. <u>Ásthildur Elva Bernharðsdóttir</u> : Dealing with uncertainty and risk communication: the influence of culture 5. <u>Andrew McLean</u> : Intraorganizational risk communication -a survey of small island developing states	P15 Chairs: <i>Muneta Yokomatsu and Sóley Kaldal</i> Economic analyses of risk reduction, recovery policies and growth 1. <u>Muneta Yokomatsu</u> : Numerical dynamic programing in firm's activities in consideration of varies disaster scenarios 2. <u>Stefan Hochrainer-Stigler</u> : Optimal design of insurance contracts under model ambiguity 3. <u>Yasuhiro Akakura</u> : Economic Loss Assessment of port logistics stagnation due to disasters 4. <u>Per Danielsson</u> : Coastal vulnerability index for erosion	P16 Chairs: <i>Norio Okada and Rasmus Dahlberg</i> Disaster and risk management 1. <u>Nuno Moreira</u> : New challenges for National Meteorological Services in issuance of warnings and risk communication 2. <u>Suzanne Lacasse</u> : Hazard and risk management for natural threats – An engineer's viewpoint 3. <u>Mohsen Ashtiany</u> : The fire induced collapse of Plasco building; lessons for future 4. <u>Allen Clark</u> : Culture, Uncertainty and Risk: Why we are unprepared for Disasters
10:55-11:15	Break and refreshments			

11:15-12:45	SILFURBERG B	BJÖRTULOFT	RÍMA A	RÍMA B
Parallel Sessions 5	<p>P17 Chairs: <i>Þorsteinn Sæmundsson and Írsema Alcantara Ayala</i></p> <p>Understanding landslides and avalanches</p> <p>1. <u>Cesare Alippi</u>: Landslide and rock-fall monitoring systems. What we have learned and why we need intelligent functionalities.</p> <p>2. <u>Unni Eidsvig</u>: Temporal evolution of landslide risk for the municipality of Nocera Inferiore, Italy under the effect of climate changes.</p> <p>3. <u>Christian Jaedicke</u>: Snow avalanche events in Longyear-byen and what lessons they hold for avalanche risk management</p> <p>4. <u>Þorsteinn Sæmundsson</u>: Possible consequences of mass movements on outlet glaciers and into proglacial lakes in Iceland</p>	<p>P18 Chairs: <i>Per Danielsson and Jónas Eliasson</i></p> <p>Integrated flood risk management</p> <p>1. <u>Emmanuel Pagneux</u>: 100 years of flooding events in five Icelandic catchments: causes, seasonality and impacts</p> <p>2. <u>Emeline Comby</u>: What kinds of adaptation happen after an internal or external flood event?</p> <p>3. <u>Aleksi Rasanen</u>: The role of networks and levels in community flood resilience</p> <p>4. <u>Douwe De Voogt/ Stefania Munaretto</u> presents: Participatory flood risk mitigation: implementing community social capacity building in Borgharen and IJtteren, Netherlands</p> <p>5. <u>Irene Pluchinotta</u>: Organizational cultures and the creation of a temporary multi-organization for environmental emergency management: some hints from a flash-food emergency in Lorca, Spain.</p> <p>6. <u>Alba Ballester</u>: Public participation for flood risk mitigation in the Arga and Aragon Rivers.</p>	<p>P19 Chair: <i>Hirokazu Tatano</i></p> <p>Climate change adaptation</p> <p>1. <u>Jose A. Marengo</u>: An Integrated Framework to Analyze Local Decision Making and Adaptation to Sea Level Rise in Coastal Regions in Selsey (UK), Broward County (USA), and Santos (Brazil)</p> <p>2. <u>Sonam Sahu</u>: Contriving Development or Controlling Urbanization- Priorities for a developing a Metro city in the changing climate?</p> <p>3. <u>Atte Harjanne</u>: A country without disasters? Managing disaster and climate risks in a Nordic welfare state</p> <p>4. <u>Antonio Carlos Oscar Jr</u>: Governance of climate change risk at the regional level: The cases of Santos and Rio de Janeiro Metropolis (Brazil)</p> <p>5. <u>Masoud Yazdanpanah</u>: Knowledge of wheat grower's regarding climate change in western Iran: in structural equation modeling</p>	<p>P20 Chairs: <i>Sigrún Karlsdóttir and Stefan Hochrainer</i></p> <p>Natural hazards and risk assessment</p> <p>1. <u>Yuan Gao</u>: Global drought risk assessment based on the irrigation scenarios: a case study of winter wheat</p> <p>2. <u>Mohammad Baradaranshoraka/ Jean-Paul Pinelli</u> presents: Hurricane wind versus storm surge damage in the context of risk prediction model</p> <p>3. <u>Susan Lacasse</u>: Multi-hazard assessment - a Bayesian network perspective</p> <p>4. <u>Matt Dorfstaetter</u>: Disaster risk assessment as tool to establish sustainable transdisciplinary multi-stakeholder disaster management governance structures</p>
12:50-13:50	Lunch			
14:00-23:00	Field trip passing sites of natural hazard in Southern Iceland			

Day 3 Friday 25 August 2017

Room Time	1 – SILFURBERG B	2 – BJÖRTULOFT	3 – RÍMA A	4 – RÍMA B
	<p align="center">SILFURBERG B</p> <p align="center">Invited Plenary Lectures Chair: Ana Maria Cruz</p> <p align="center">Keynote 4 Denis Mileti: Reducing delays in public warnings</p> <p align="center">Keynote 5 Mahesh Prakash: Integrated modelling and analytics of natural hazards: A bushfire perspective</p>			
08:30-09:30	<p align="center">Break</p>			
09:30-09:40				
09:40-10:40	SILFURBERG B	BJÖRTULOFT	RÍMA A	RÍMA B
Parallel Sessions 6	<p>P 21 Chair: <i>Guðný Björk Eydal</i> Vulnerability</p> <p>1. <u>Eva Streberova</u>: Implementing tools for assessing vulnerability of urban population to climate change risks – example of the co-creation process in Bratislava City (Slovak Republic)</p> <p>2. <u>Anyu Zhang</u>: Study on population exposure change of natural disaster under extreme environment in Tibet</p> <p>3. Cristina Vasilescu/<u>Alba Ballester</u> presents: Participatory processes for building social capacities for flood risk mitigation: Lessons learnt from five case studies.</p>	<p>YSS₀₁ Chair: <i>Yoko Matsuda</i></p> <p>1. <u>Takashi Sugiyama</u>: How to improve ownership in disaster risk reduction for elderly and people with special needs: Observation from indoor Tsunami evacuation drills in Japan</p> <p>2. <u>Silje Aurora Andresen</u>: In the heat of the moment: a local narrative of the responses to a fire in Lærdal, Norway</p> <p>3. <u>Fuko Nakai</u>: How vulnerable is the mutual cooperation on their evacuation rule? -assessment of impacts made by evacuees' defections</p> <p>4. <u>Daimon Hiroaki</u>: Does 'pay it forward' extend the support chain? : Simulating voluntarism on the post-disaster community in Japan.</p>	<p>YSS₀₂ Chair: <i>Wei Xu</i></p> <p>1. <u>Yaojie Yue</u>: Assessing wild fire risk in Unites States using social media</p> <p>2. <u>Sun Shao</u>: How to recognize high risk region of climate change?</p> <p>3. <u>Maria Camila Suarez</u>: Natech RateME: Preliminary stages of a new comprehensive Natech performance rating system</p> <p>4. <u>Giuseppe Aliperti</u>: Mid-long term impact of Natech disaster on tourism-related activities: A case study from Japan</p>	<p>YSS₀₃ Chair: <i>Muneta Yokomatsu</i></p> <p>1. <u>Genta Nakano</u>: Long term effect of disaster education observed through 2015 Nepal earthquake</p> <p>2. <u>Marina Hamidzada</u>: Vulnerability of Afghan Women in Disasters: Facts, Challenges and the way forward</p> <p>3. <u>Christine Prokopf</u>: Against all odds? The development and spread of national level disaster risk analysis in Germany</p> <p>4. <u>Ryohei Miyamae</u>: Shrinking community remembrance and commemoration: a case of forget-ness of forgetting</p>

	<p>5. <u>Martina Calovi</u>: A high resolution extreme heat forecasting product based on an analog ensemble of atmospheric model and volunteered geographic information</p> <p>6. <u>Marina Tamara Mendoza</u>: Challenges and opportunities of disaster damage data modeling supporting multipurpose analysis</p> <p>7. <u>Mona Zaryoun</u>: Application of flexible architecture and innovative structural systems in creating multi-purpose neighborhoods' self-help centers for post-earthquake emergencies</p> <p>8. <u>Jessica Barnes</u>: Landscape architecture and disaster risk management</p>	<p>5. <u>Pujun Liang</u>: The population in the areas with rising trend of storm rainfall in China has increased by 120 million.</p> <p>6. <u>Þórhildur Heimisdóttir</u>: The attraction of active volcanoes in tourism.</p> <p>7. <u>Benyamin Adibzadeh</u>: Opportunities and Challenges for Compulsory Earthquake Insurance in Seismic Developing Countries – Case Study of Iran</p> <p>8. <u>Flora Guillier</u>: PAPI: how effective is this public policy instrument for building integrated coping capacities with regards to flood risk?</p>	<p>5. <u>Clément Judek</u>: Crisis simulation scenario building methodology that considers the concept of cascading effects for pedagogical and research interest</p> <p>6. <u>Nimesh Dhungana</u>: Between monitoring and mobilizing of community voice: a case of community-based accountability in post-earthquake Nepal</p> <p>7. <u>Bonjun Koo</u>: Development of Collaborative Action Plan for Community Disaster Risk Reduction: Focusing on Air Pollution in Ger Areas of Mongolia</p> <p>8. <u>Charlotte Heinzlef</u>: An observatory for decision-making: measuring and advising on urban resilience</p>
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10:40-12:00

POSTER AREA - FLÓI

Refreshments and Posters (YSS and regular posters)

YSS posters see sessions YSS₁, YSS₂ and YSS₃ above

Regular posters:

1. Silje Aurora Andresen: **The political ecology of disasters – a case study of the fire in Lærdal, Norway**
2. Beatriz B. O. Santos: **Correlation between rainfall episodes and mass movements in Santos, Brazil**
3. Amandine Berger-Sabbatel: **Preparedness as a powerful management tool for daily city management**
4. Douwe De Voogt/Stefania Munaretto presents: **Diverging flood risk subcultures in public institutions and local communities and implications for flood risk management: The case of Itteren and Borgharen, The Netherlands**
5. Katarína Harmadyová: **Monitoring of rockfall hazards at the Devin Castle National Monument (Bratislava City, Slovak Republic) - Preserving cultural heritage and monitoring climate change impacts**
6. Kirby Johnson/Michele M. Wood presents: **Experience mapping: A case study in earthquake early warning**
7. Ning Li: **Climate instability analysis by joint mode with temperature trend and variability in mainland China**

8. Jose A Marengo.: **Climatic characteristics and socioeconomic impacts of the 2010-2016 drought in the semiarid Northeast Brazil region**
9. Angeli Medina: **Promoting a culture of healthcare continuity and resilience**
10. Hannah Montgomery/Michele M. Wood presents: **Effects of communitywide great shakeout earthquake drills on individuals and households**
11. Maria Giovanna Pagnotta: **The role of volunteers in flood risk perception and social responsibility**
12. Uta Reichardt: **Risk management of volcanic ash in Europe: Cooperation between science and aviation sector service providers**
13. Silvia Serrao-Neumann: **Political agency for disaster resilience in practice: Insights from Australian coastal communities**
14. Akiyoshi Takagi: **Application 'Disaster Reduction Class' for facilitating self-help and mutual help for disaster prevention and reduction**
15. Edda Björk Þórðardóttir: **Sleep disorders and sleep medication use among Swedish survivors of the 2004 Southeast Asia tsunami**
16. Tetsuya Torayashiki: **The decrease in tourism and tourism promotion after increased recent volcanic activity in Japan**
17. Victoria VanTwist/Michele M. Wood presents: **Effects of community wide great shakeout earthquake drills on organizations**
18. Hironori Yamaguchi: **Communication-design for disaster risks through shopping at a large-scale shopping center: Transition from disaster prevention to disaster mitigation**
19. Masoud Yazdanpanah: **Intention of agricultural extension educators to take action toward climate change in Iran**
20. Masoud Yazdanpanah: **Human factors in deployment of biofuel energy production in Iran: studying attitudes of Iranian agricultural professionals towards biofuel production**
21. Masoud Yazdanpanah: **Understanding farmers risk perception through cultural theory lens: A qualitative study**
22. Jiansong Zhang **Review on progress in climate change risk study**
23. Ernest Tambo: **Building disaster risk surveillance data sharing and governance in sub Sahara Africa: Opportunities and challenges**
24. Xu Ying Jun: **Assessment and analysis of typhoon disaster in Hebei province, China**

12:15-13:00

SILFURBERG B**Plenary Interview 2****Science for Resilience**

Ms Þóra Arnórsdóttir interviews

Adam Rose, Hirokazu Tatano and Andrew Collins

13:10-14:20**Lunch**

14:20-15:50

SILFURBERG B**BJÖRTULOFT****RÍMA A****RÍMA B**Parallel
Sessions 7**P22**
Chair: *James Goltz***Best practices
in engagement
strategies**1. Miriam Zetterlund: End-user engagement in modeling of small-scale precipitation extremes**P23**
Chair: *Norio Okada and Stephanie Chan*
Transportation and supply chain1. Stephanie Chang: Modeling impacts of transport system disruptions on regional supply chains**P24**
Chair: *Roland Nussbaum*
Disaster risk reduction and recovery initiatives1. Emmanuel Raju: CCA and DRR: Integration or Divergence? Findings from Denmark**P25**
Chair: *Adam Rose*
Migration in anticipation and following disasters1. Adam Rose: What influences the destination of disaster migrants? Evidence from Hurricane Katrina

	<p>2. <u>Chris Hagar and Karen Brown</u>: Strengthening community engagement and resilience efforts in climate change</p> <p>3. <u>Pan Hu</u>: Community-based calculation of flood traveling time.</p> <p>4. <u>Ouejdane Mejri</u>: Disaster risk reduction collective knowledge production: multi hazard and multi scale challenge</p> <p>5. <u>Hildur Ingvarsdóttir</u>: Municipal utility resilience - Veitur</p>	<p>2. <u>Alexandru Ozunu</u>: Assessing hazards and risks from Seveso establishments and hazmat transportation in Romania</p> <p>3. <u>Mahmoud Hosseini</u>: On the seismic resilience upgrading strategy for the railway transportation system through evaluation and retrofit of stone bridges – Case study of Iran</p> <p>4. <u>Nazli Yonca Aydin</u>: The role of transportation network resilience on tourism sector</p> <p>5. <u>Banafsheh Alsadat Hashemi</u>: Lines of action for upgrading the seismic resilience of subway transportation systems</p> <p>6. <u>Uta Reichardt</u>: Enhancing Resilience of Air Traffic due to Extreme Volcanic Ash Scenarios: Policy Recommendations for Aviation</p>	<p>2. <u>Yoko Matsuda</u>: Local construction industries and disaster volunteers - a perspective of CSR enhancement in Japan</p> <p>3. <u>Silvia Serrao-Neuman</u>: Post-disaster social recovery: lessons learnt from Tropical Cyclone Yasi</p> <p>4. <u>Hideyuki Shiroshita</u>: A workshop for digging out the embedded customs for DRR</p> <p>5. <u>Rasmus Dahlberg</u>: Making sense of signals</p>	<p>2. <u>Shingo Nagamatsu</u>: Building back a better Tohoku from the March 2011 Tsunami - A contradicting evidence</p> <p>3. <u>Makoto Okumura</u>: Statistical analysis of post disaster effects in inter-regional migration</p> <p>4. <u>Tomohiro Ichinose</u>: Land use changes in 100 years and economic damage in Kesennuma City by the 2011 Tohoku earthquake and tsunami</p>
15:50-16:15	Break and refreshments			
16:15-17:45	SILFURBERG B	BJÖRTULOFT	RÍMA A	RÍMA B
Parallel Sessions 8	<p>P26 Chair: <i>Arna Hauksdóttir</i></p> <p>Governance and resilience</p> <p>1. <u>John Richardson</u>: Translating research into policy and practice: A case study from Australia's Black Saturday Bushfires</p>	<p>P27 Chair: <i>Christian Jaedicke and Makoto Okumura</i></p> <p>Infrastructure management</p> <p>1. <u>Halldór Halldórsson</u>: The Icelandic Electric Power System resilience</p>	<p>P28 Chair: <i>Emmanuel Pagneux</i></p> <p>Natural hazards modeling and forecasting</p> <p>1. <u>Jie Zhang</u>: Numerical simulation and diagnostic analysis on a rainstorm in Beijing 7-21 rainfall case.</p>	<p>P29 Chair: <i>Ragnheiður Hergeirsdóttir and Li Ning</i></p> <p>Emergency planning and response</p> <p>1. <u>Lisbeth Hall</u>: European Multiple Environmental Threats Emergency Network (EMETNET)</p>

16:15-17:45 Parallel Sessions 8	<p>2. <u>Asahi Chisato</u>: A multi-dimensional structure of time in peoples sense of livelihood recovery from the Great East Japan Earthquake</p> <p>3. <u>Morteza Bastami</u>: A quantitative index for earthquake community resilience</p> <p>4. <u>Amy Oen/Unni Eidsvig</u> presents: Nature-based solutions: ecological, social and economic resilience for society</p> <p>5. <u>Ganesh Gorti</u>: Understanding the role of multicriteria decision analysis in transformative disaster risk governance</p>	<p>2. <u>Tomoko Okayama</u>: Disaster Toilet Management at the Kumamoto Earthquake in Japan</p> <p>3. <u>Yolanda A. Hernandez</u>: Restoration of the water distribution networks in Japan after recent earthquakes</p> <p>4. <u>David Bristow</u>: Municipality-wide multi-infrastructure earthquake recovery modeling</p> <p>5. <u>Satoshi Tsuchiya</u>: An economic impact analysis due to local block of a major highway network</p>	<p>2. <u>Jean Odry</u>: Implementation of a regionalized French flood quantiles database</p> <p>3. <u>Mingwei Zhao/Jean-Paul Pinelli</u> presents: Evaluation of mitigation measures for hurricane storm surge damage using an engineering-based method</p> <p>4. <u>Abdolreza S. Moghadam</u>: Resilient seismic systems; necessities and challenges.</p> <p>5. <u>Sóley Kaldal</u>: Preparing for zero frequency events</p>	<p>2. <u>Michinori Hatayama</u>: A Study on an identification method of shelters and its application for disaster response activities - Case study in Kumamoto Earthquake</p> <p>3. <u>Eizo Hideshima</u>: Evaluation of wide-area evacuation plan for storm surge based on disaster scenarios</p> <p>4. <u>Póra Kristín Ásgeirsdóttir</u>: The Reykjavik Municipal Area Community Emergency Management</p>
17:45-18:00	Break			
18:00-18:30	SILFURBERG B			
	Plenary Session			
	Chair: <i>Ana Maria Cruz</i>			
18:30-18:40	Student Awards Ceremony			
18:40-19:20	Introduction of IDRiM 2018			
19:20-19:30	Wrap-up Panel Adam Rose, Mahesh Prakash, Denis Mileti, John Richardson			
	Closing: Guðrún Pétursdóttir, Chair, IDRiM2017 Organizing Committee Adam Rose, IDRiM Society President			

IDRiM2017 Field Trip on Thursday, 24 August 2017

The conference organizers feel that it is appropriate to offer a conference tour that traverses an area prone to a variety of natural hazards, including earthquakes, river/ocean/glacial outburst floods, and volcanic eruptions. All this is found in the southern region of Iceland - ranging south-eastward from Reykjavík through the geothermal village of Hveragerði, close to the epicenter of the 2008 earthquake that caused major material damage and resulted in the surfacing of new geothermal springs in the village. We continue on to Selfoss, a village on the banks of the glacial river Ölfusá, a cause of frequent floods. Further east, in the village Hvolsvöllur, that lies in the vicinity of Eyjafjallajökull, we will meet civil protection and emergency management authorities and learn about their work and challenges. On the way home we will enjoy a rustic local lobster dinner in the coastal village Stokkseyri, neatly protected by a dike from the ocean storms that can be quite ferocious in winter. At this time of year, however, we hope for a calm evening. Nevertheless, you should bring warm clothes, a rain jacket and sturdy shoes!

We will travel in 3 buses, each guided by an expert in social/physical geography; geology; and/or natural hazards: Professor Guðrún Gísladóttir, Dr. Deanne Bird and Dr. Þorsteinn Sæmundsson.

Departure from Harpa at 14:00 sharp!

Arrival back to Reykjavík, Harpa, approx. 23:00.



Practical Information

The **IDRiM2017 conference** takes place at *HARPA* Concert Hall and Conference Centre, Austurbakki 2, 101 Reykjavik, Iceland. Sessions take place in lecture halls *SILFURBERG B*, *BJÖRTULOFT*, *RÍMA A* and *RÍMA B*. The Poster Area is in *FLÓI*.

Internet access

Wireless internet access is available in Harpa and is free of charge. Password: idrim

Chairs

Please be present in the lecture hall at least 10 minutes prior to your session. It is important that sessions stay on schedule. It is vital that all speakers observe their time allotment.

Speakers

All speakers are asked to bring their presentation on a memory stick well in time before the beginning of their session and load it on the computer in the session hall. Please do so well before sessions start in the morning, or during lunch- or refreshment breaks. A technician will be on hand to support the speakers.

Badges

All participants are requested to wear their personal badge throughout the Conference. The badge is the entrance ticket to all sessions. Should you misplace your badge a replacement can be obtained at the Registration Desk.

Coffee breaks and lunches

Coffee, tea, refreshments and 3 lunches will be served in the area *EYRI* in front of *SILFURBERG* hall, except during Poster Session on Friday 25 August, refreshments will be served at the Poster Area.

Poster display, set-up and removal

All posters are to be put up on Wednesday 23 August before 14:00 and removed before 18:00 on Friday 25 August. Poster left on poster board after the Conference will be removed by the organiser who cannot be held liable for any loss or damage to posters.

Excursions

Various excursions for participants are available. Information and tickets can be obtained at the Registration Desk.

Professional Congress Organizer – PCO

CP Reykjavík, Conference Management Services Ltd.

Address: Suðurlandsbraut 6, 108 Reykjavík. Tel: +354 510 3900, www.cpreykjavik.is

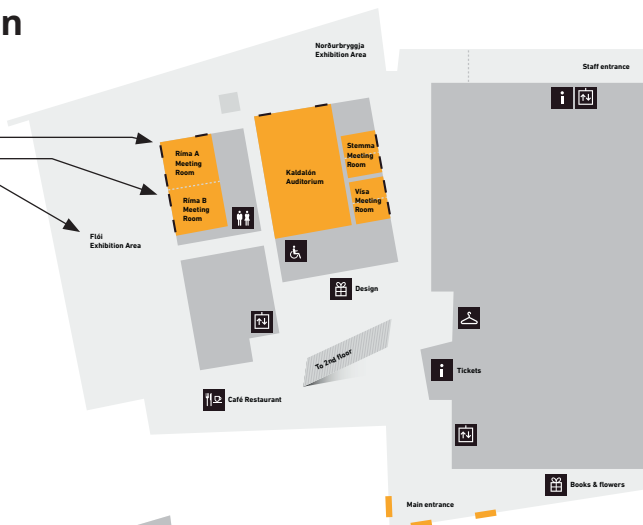
Registration Desk

CP Reykjavik is in charge of the registration, accommodation bookings and social arrangements. *Contact persons: Elisabet; +354 773 6070, Imma; +354 897 5559 & Heiða; +354 616 1422.*

Harpa - floor plan

1st floor

Ríma A
Ríma B
FLÓI – POSTER AREA



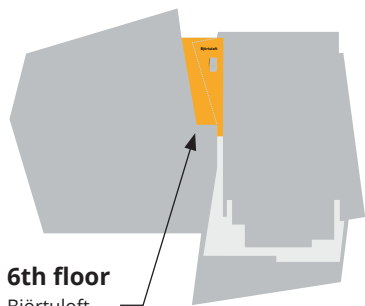
2nd floor

Silfurberg B



6th floor

Björtuloft



7th floor

Björtuloft

