

Updates from other ICoEs & NC

Activities from May- November 2016

Lucy Lu
Science Officer

International Centre of Excellence (ICoE)

Community-based Resilience, New Zealand	ICoE- CR
Risk Education and Learning, South Africa	ICoE- REaL
Risk Interpretation and Action, UK	ICoE- RIA
Capacity building, research, Taipei	ICoE- Taipei
Understanding Risk & Safety, Colombia	ICoE- UR&S
Vulnerability & Resilience Metrics, USA	No Update ICoE- VaRM
Critical Infrastructure & Strategic Planning, Germany	ICoE- CI&SP
Disaster Resilient Homes, Buildings, and Public Infrastructure, Canada	ICoE- DRHBPI

ICoE- CR
Community-based Resilience, New Zealand

1. Between 17th and 20th October 2016 Joint Centre for Disaster Research at Massey University/GNS Science (JCDR) organised the **4th International Conference on Urban Disaster Reduction (4ICUDR)** which builds on an established practice of international collaboration and knowledge-sharing after disaster events.
1. On the 10th October 2016 JCDR hosted a workshop to explore links between **child-centred disaster risk reduction (DRR) education and community-focussed DRR education initiatives.**
1. Emergency Management Summer Institute at Massey University, Wellington in March 2016. The 2017 Emergency Management Summer Institute is 13-17 March.

ICoE REaL
Risk Education and Learning, South Africa

1. Successful negotiation of **USD 4.07 million agreement** with USAID/OFDA 2016-19 (September)
2. Concluded 11 sub-awards for implementation
3. Participation in Africa Working Group for DRR Livingstone, Zambia (October 2016)
4. Leadership of **pre-event for STAC session** (science, technology and academic communities) at AfRP, Mauritius 22 November
5. Co-facilitation with IRDR IPO – **side event at AfRP**

1. Likely Periperi U consultative meeting in Bahir Dar Ethiopia by February 2017 – IRDR ? to attend
2. **Detailed planning, including framing of collaborative research agenda by early 2017**, including inputs by ICSU, UNISDR and ? NEPAD
3. **Preparatory activities in advance of Cancun.**
4. Multiple new collaborations under negotiation / evolving (eg with NEPAD, ‘FATHUM’ Project with 3 Periperi U partners/Univ of Reading, and discussions with Chemonics on possible FEWSNET submission).

1. Strategic Leadership - **UK Alliance for Disaster Research** is now positioned to act as the national science platform for Sendai.
2. **Grant proposals: “Building Resilience”**
3. Presentation and Publications –
 - Fraser, A, Pelling M, Solecki W (2016) Understanding risk in the context of urban development: definitions, concepts and pathways. In Bartlett S and Satterthwaite D (eds) *Cities on a Finite Planet*, Earthscan, London, pp 17-41
 - Kovats, S, Pelling M, Koniordou M, Birlmann J, Welle T (2016) London, United Kingdom. In Bartlett S and Satterthwaite D (eds) *Cities on a Finite Planet*, Earthscan, London, pp 116-135
 - Satterthwaite, D, Bartlett S, Roberts D, Dodman D, Solecki W, Sverdlik A, Pelling M (2016) Conclusions and way forward. In Bartlett S and Satterthwaite D (eds) *Cities on a Finite Planet*, Earthscan, London, pp 240-263

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ACTIVITIES FROM JANUARY 2016 TO NOW

1. **Resettlement and relocation case studies at Asia, Africa and LAC**, in coordination with University College of London (Bartlett, DPU), Indian Institute of Human Settlements and FLACSO, for CDKN
2. Participation in **the two-days side event on Reducing Relocation Risk in Urban Areas**, in the framework of HABITAT III, in Quito
3. **Interdisciplinary Academic Workshop** on Risk, Engineering and Culture: The Experience of Manizales (in memoriam of Samuel Darío Prieto)
4. Participation in the **workshop on Innovation and Risk Reduction** at local level in Argentina, organized by the Inter-American Development Bank.
5. Flood hazard and risk evaluation for the Action Plan of Integrated Risk Management and Climate Change Adaptation of La Mojana Region, for the Adaptation Fund and National Department of Planning, Colombia
6. Implementation of the automated Disaster Risk Modeling System of the city of Bogota. Seismic (shakemaps) and landslide hazard and risk warning system, based on online earthquake and rainfall monitoring

ACTIVITIES FROM JANUARY 2016 TO NOW

1. Development of a Global Drought Probabilistic Hazard and Risk Model in the framework of the CAPRA platform improvement for UNISDR Risk Knowledge Section (in process)
2. Evaluation of risk using the Drought Risk Model in Central America and Northeast of Brazil for collective review during the workshop convened by NOAA and to be held in Boulder, February 2017 (in process)
3. **Development of the UNISDR report: The World at Risk** (200+ countries based on the GAR's Global Multi-hazard Risk Assessment for the 2017 Global Platform on DRR to be held in Cancun, May 2017 (in process))
4. Development of the **Holistic Evaluation of Disaster Risk at global level** using physical/economic risk metrics and indicators of social fragility and lack of resilience of the countries (in process)
5. Implementation of the Index of Disaster Risk Implications for Development, based on the average annual loss and economic flow indicators of the countries, such as the capital stock, social expenditure, capital formation, saves and reserves (in process)

ICoE publications/presentations

- Publication title: **‘Insurers rebuild stronger homes: A program by Canadian insurers to build back better homes’**
- First program in the world setting out actions that **insurance companies can take to strengthen the disaster preparedness of homeowners by building back better homes after a disaster strikes**
- Best practices for the design and construction of homes to reduce the risk of loss and damage from natural hazards including basement flooding, wildfire, severe wind and hail



- ‘Why some homes survived: Learning from the Fort McMurray wildfire disaster: Preliminary report (released August 22, 2016)
- Why did some homes survive this wildland/urban interface disaster with little or no damage, while others were vulnerable to ignition and destroyed?
- “...wind-driven embers were the most probable cause for the majority of early home ignitions...”
- Preliminary findings at www.iclr.org
- Final report due out in 4Q



Future planned activities (2016)

- Title: “**State by State Benefit/Cost Analysis for Wind Resistant Construction**”
- Principle investigators
 - Dr. Greg Kopp (Western University)
 - Dr. Kevin M. Simmons (Austin College)
- Project goals:
 - Identify states that would benefit from the enhanced construction standards adopted by Moore, Oklahoma
 - Recommend other less expensive options for states that don't quite meet the Moore benefit/cost test
 - Provide benefit/cost guidelines for individual states open to enhancing standards for residential construction
 - Help groups with an interest in wind resistant construction target their outreach efforts

10 National Committees

IRDR Australia	Bushfire & Natural Hazards Cooperative Research Centre (BNH CRC)
IRDR Canada- No Update	Science and Technology Working Group, Canada's Platform for Disaster Risk Reduction
IRDR China	China Association for Science and Technology (CAST)
IRDR Colombia-No Update	National Committee of Disaster Risk Knowledge, National Unit for Disaster Risk Management of the Presidency of the Republic of Colombia
IRDR France-No Update	Scientific Council, Association Française Pour la Prevention des Catastrophes Naturelles (AFPCN)
IRDR Germany-No Update	German Committee for Disaster Reduction
IRDR Japan-No Update	Science Council of Japan (SCJ)
IRDR New Zealand	Natural Hazards Research Platform (NHRP)
IRDR USA-No Update	Natural Hazards Center (NHC), Institute of Behavioral Science, University of Colorado at Boulder
IRDR Iran-No Update	A group of eight Iranian research institutes and scientific associations

IRDR Australia Bushfire and Natural Hazards Cooperative Research Centre (CRC)

1. Australian and New Zealand Disaster and Emergency Management Conference, May 2016, Queensland
1. CRC Research Advisory Forum, May 2016, Hobart - this forum discussed progress of the CRC research program, with 120 researchers and end users from partner organisations from Australia and New Zealand.
2. *Australian Journal of Emergency Management*, July 2016
3. CRC Annual Conference, Brisbane, August 2016



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UNISDR

The United Nations Office for Disaster Risk Reduction



RADI

- **International Day for Disaster Risk Reduction, 13 October 2016.** A free public forum at RMIT University. The focus of this International Day for Disaster Reduction is on preventing deaths.
- **CRC Research Advisory Forum, Canberra, October 2016.** This forum at the Australian National University will discuss the progress of the CRC research program, with more than 100 researchers and end users from partner organisations from Australia and New Zealand attending.

Natural Hazards Research Platform (NHRP)

1. The NHRP has participated in **Exercise Tangaroa**. Exercise Tangaroa was New Zealand's first full-scale All-of-Government National Exercise. The exercise was led by NZ's Ministry of Civil Defence & Emergency Management and supported by all 16 CDEM groups, central government agencies, emergency services, lifeline utilities, plus other agencies and organisations. <http://www.civildefence.govt.nz/cdem-sector/exercises/exercisetangaroa2016/>
2. The **annual publication** of NHRP research is available online at: <http://www.naturalhazards.org.nz/NHRP/Publications/Natural-Hazards-Issues>
3. The NHRP is supporting the development of a **Natural Hazards Social Science Panel** to aid decision-makers during natural hazard crises. <http://www.naturalhazards.org.nz/NHRP/News/Natural-Hazards-Social-Science-Panel>