



Canadian Risk and Hazards Network

11th Annual Symposium

Eaton Chelsea, Hotel
Toronto, Ontario, Canada
October 22 - 24, 2014



Symposium Program



Time	Tuesday October 21, 2014			
	4th Annual Roundtable on Canada's Platform for Disaster Risk Reduction			
	11th Annual CRHNet Symposium Registration Delegate Meet & Greet CRHNet Exhibit Opening			
Time	Wednesday 22 October, 2014			
7:30	Registration			
8:00	Delegate Breakfast			
9:00	Welcome: David Etkin/Edward Unger, Co-Chair CRHNet 11 th Symposium			
9:10	Opening Remarks: Dr. Rhonda Lenton, Vice-Provost Academic , York University			
9:20	1st Plenary Session A Critical Overview of Disaster Theory Professor David Alexander, UCL			
10:15	Networking Break			
	Concurrent Sessions			
10:45	Theme 1: Hazard & Risk Modelling and Assessment	Theme 2: Resilience	Theme 3: Preparedness and Response	Theme 4: Special Topics
	<u>Flood Modelling</u> Ma. Teresa Vazquez, Demetrio Fernandez and Ramon Dominguez , A methodology to analyze rainfall events and land use scenarios on flood risk Khandakar Hasan Mahmud and C Emdad Haque , Application of HAZUS model in estimating potential loss and risk, and enhancing community resilience to flooding: The case of St. Andrews in Manitoba, Canada Farshid Sabouri, Michael Heralall and Laurian Farrell , Don River flood forecasting using artificial neural networks	<u>From Vulnerability to Resilience</u> Simona Verga and Paul Chouinard Building resilient communities – how to pull the pieces together and what critical gaps remain S. Atyia Martin A Framework to understand social vulnerability: Reducing risk through resilience Ray Pena , How professional emergency managers enable individuals, groups and communities to achieve disaster resilience	<u>Panel Discussion</u> Brian Schwartz, Carolyn Bennett, Calli Citron and Caitriona O'Sullivan <u>Preparing for and Responding to Emerging Infectious Respiratory Diseases in Ontario</u>	<u>Managing Technological Risks</u> Adam Miller , Radiation health response plan Nicki Albus , Pipeline explosion: How rural emergency management can benefit from big industry response

12:15	Delegate Lunch Exhibit Viewing			
1:30	Concurrent Sessions			
	Theme 1: Hazard & Risk Modelling and Assessment	Theme 2: Resilience	Theme 3: Preparedness and Response	Theme 4: Special Topics
	<p><u>Risk Assessment</u> Heather Mcgrath, Emmanuel Stefanakis and Miroslav Nastev, Sensitivity analysis of HAZUS Canada Flood Model: Case study from Fredericton, New Brunswick Nicky Hastings and Robert White, A seismic risk assessment for Canada: What does it look like? How can this knowledge be used to guide a discussion to make Canada more disaster resilient? Mark Baker, Samuel Kaharabata and Ann Wyganowski, Risk assessment models and their relationship with the various risk based disciplines</p>	<p><u>Urban Resilience: International Perspectives</u> Mohammad Reza Farzad Behtash et al. Evaluation of Tabriz resilience state Lilia Yumagulova, Towards regional resilience: A case study of Metro Vancouver, Canada Lilia Yumagulova, Resilient institutions=vulnerable people? A longitudinal case study of flood management institutions in Nizhegorodka, Russia.</p>	<p><u>Enhancing Emergency Exercises</u> Laurie Pearce, Laurie Hearty, Adam Vaughan and Paulina Moreno, Exercise Target Red: Establishing protocols to encompass psychosocial considerations for casualties and families in mass-casualty Incidents (MCI) involved an active shooter Ali Asgary and Alison Kingelin, Assessing the learning outcome of an emergency evacuation table top exercise Laurie Pearce, Laurie Hearty, Adam Vaughan and Paulina Moreno, Exercise Outbreak Orange: Identifying psychosocial considerations in an emergency operations centre when responding to a pandemic</p>	<p><u>Panel Discussion</u> Brenda Murphy, Jack McGee, Kim Ayotte, Jane Wilcox and Bikram Chawla <u>The Canadian Tri-Services Emergency Management Committee & Responders' Risks</u></p>
3:00	Networking Break			
3:30	Concurrent Sessions			
	Theme 1: Hazard & Risk Modelling and Assessment	Theme 2: Resilience	Theme 3: Preparedness and Response	Theme 4: Special Topics
	<p><u>Hazard and Risk Perception</u> Patricia Martel, Common misconceptions and public beliefs: Stormchasing Zahra Asgarizadeh Mojtaba Rafieian, and Hamidreza Biyabani</p>	<p><u>Community Resilience: Housing and Public Health</u> Emdad Haque, Mohammed Uddin, Ohidur Zaman and Mahed Choudhury, Community resilience to disasters and public health:</p>	<p><u>Leadership and Coordination</u> Kenneth McBey and Andrew Moull, Integration and inter-agency coordination of civilian and military resources during disasters</p>	<p><u>Workshop</u> David Etkin Proposed Code of Ethics for Emergency Managers</p>

	Moghaddam , The impact of risk perception on risk reduction behaviors: The case of earthquake in city of Tehran	Understanding the role of social capital from evidence in coastal Bangladesh Elizabeth English , Amphibious architecture: Flood-resilient housing for low-income vulnerable populations	Hans De Smet, Bert Schreurs and Jan Leysen , Decision making in a disaster management organization: A leadership approach	and EM Organizations	
Thursday 23 October, 2014					
8:00	Delegate Networking Breakfast				
9:00	2nd Plenary Session What Emergency Management Practitioners Need from Academics Ted Wieclawek, Fire Marshall Office, Ontario				
10:00	Networking Break				
10:30	Concurrent Sessions				
	Theme 1: Hazard & Risk Modelling and Assessment	Theme 2: Resilience	Theme 3: Preparedness and Response	Theme 4: Special Topics	
	<u>Risk Reduction: Land Use</u> Barry Bouwsema , Utilizing land use management policy in risk reduction L.C. Struik and L.L. Pearce , Land-use risk reduction: Achieving acceptable risk from hazards L.C. Struik and N. Hastings , Risk management scheme for land-use decision support	<u>Aboriginal Resilience 1</u> Traditional Opening: TBA David Diabo , Adaptability = Resilience = Sustainability: Examining the notion of Indigenous DM/EM and resilience Terry Swan, and TBA , Responding to the Needs of Indigenous Children in Humanitarian Context Valérie Céré , Touristic Resort and Gated Communities Resilience	<u>Communication and Situational Awareness</u> Frank Monozlai , Amateur radio in Canada: Evolving prospects for emergency management and enhancing community resiliency Costas Armenakis and Julien Li-Chee Ming , Small unmanned aerial systems: Emerging tool for emergency response Nicki Albus and Natalie Hassel , Bringing StormReady® to Manitoba: A framework for Canadian expansion	<u>Social Media</u> Amber Silver and Lindsay Matthews , The use of Facebook as a response and recovery tool following the 2011 Goderich, Ontario tornado Kate Kaminska and Bjorn Rutten , Leveraging social media and digital volunteers for disaster management	
12:15	Delegates Lunch CRHNet Annual General Meeting Exhibit Viewing				
1:30	Concurrent Sessions				

	Theme 1: Hazard & Risk Modelling and Assessment	Theme 2: Resilience	Theme 3: Preparedness and Response	Theme 4: Special Topics
	<p><u>Hazard and Risk Modelling</u> Wendel Chan and Costas Armenakis, Optimal evacuation route determination using multicriteria decision analysis Ali Asgary, An Agent-based dynamic risk modelling: Case of crude oil transportation by rail in urban areas Greg Oulahan, Linda Mortsch, Kathy Tang and Deborah Harford, Unequal vulnerability to flood hazards: "Ground truthing" a social vulnerability index of five municipalities in Metro Vancouver, Canada</p>	<p><u>Aboriginal Resilience 2</u> Aaron Orkin, Community-based emergency care: A novel approach for the development and delivery of first response medical services in remote First Nations communities S. Michelle Driedger, Ryan Maier, Cindy Jardine and Chris Furgal, Examining the interplay of factors influencing H1N1 vaccination decision-making among Metis in Manitoba through a social ecological model framework Arnold Lazare and Kellyann Meloche, Kahnawake – A resilient community with lessons learned</p>	<p><u>Public Health Risks and Emergencies</u> Kateryna Subbotina and Cheryl McNeil, Pandemics and emergency management perspectives: Understanding historical, environmental and first-responder implications Muhammad Syed and Nai Ming Lee, Challenges in polio eradication and constructs of a global health risk - A critical study</p>	<p><u>Post disaster recovery and adaptation</u> Brittany Blackstone and Nicki Poulin, Post-disaster organizational adaptation in a Foreign Service environment Dilnoor Panjwani, Relocation as a post-disaster recovery planning strategy Barlu Dumbuya and Niru Nirupama, Understanding community resilience using disaster models In post conflict Sierra Leone</p>
3:00	Networking Break			
3:30	Concurrent Sessions			
	Theme 1: Hazard & Risk Modelling and Assessment	Theme 2: Resilience	Theme 3: Preparedness and Response	Theme 4: Special Topics
	<p><u>Risk Governance</u> Julie Carpentier, Amending the environmental emergency regulations Maciej Mikulsen and Alan Diduck, Towards an integrated approach to disaster management and food safety governance</p>	<p><u>Aboriginal Resilience 3:</u> Anne Garland, Historical ecology for risk management: Youth sustainability Anita Walker, Climate change and extreme weather: Challenges and opportunities in Aboriginal and northern communities Brenda Murphy, Annette Chretien and David Diabo, Disaster resilience: Integrating scientific and medicine wheel approaches</p>	<p><u>Disaster & Emergency Management Education</u> Jean Slick, The development of disaster and emergency management as a field of study Jack Lindsay, The Changing role of higher education in emergency management Jean Slick, Signature pedagogies - Considerations for disaster and emergency management as a field of study David Etkin, PhD Program in</p>	<p>Mahtab Khayeri and Niru Nirupama, Are women and children more vulnerable to natural disasters - The case of Chicago heat wave of 1995? Nai Ming Lee, Diana Ellis and Niru Nirupama, North Atlantic Oscillation and the variability of Atlantic tropical cyclones: Implications for disaster</p>

			Disaster & Emergency Management	risk management		
		Symposium Banquet				
		Friday 24 October, 2014				
8:00		Delegate Networking Breakfast				
8:45		3rd Plenary Session International Perspectives on Disaster Management Juan Pablo Sarmiento, Florida International University The Forensic Revolution and Post-2015 Ian Burton				
10:00		Networking Break				
10:30		Concurrent Sessions				
		Theme 1: Resilience	Theme 2: Preparedness and Response	Theme 4: Special Topics		
		<u>Aboriginal 4:</u> Jay Sagin , Landfill: A risk hazard in Cumberland House Reserve and Village of Cumberland House Jenn McManus, Cindy Fuchs and Melanie Goodchild Across different ways of knowing, how can knowledge be shared and used to increase disaster resilience? Discussant: TBA Traditional closing: TBA	<u>Panel Discussion</u> Alain Normand, Brian Schwartz, Lisa Hood, Shawn Cowley, Louise Geoffrion and Dave Etkin <u>The Ice Storm 2013 Experience: Breaking Points and Challenges</u>	Elizabeth English , Amphibious Foundations: An Innovative Adaptive Flood Risk Reduction Strategy Ali Asgary and Richard Karsseboom , Modelling the Effectiveness of Tsunami Warning and Evacuation		
12:00		Lunch				
12:30		Closing Remarks				