
CURRICULUM VITAE OF DAVID ETKIN

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A. PERSONAL

1. NAME:

David A. Etkin, Professor, York University

2. DEGREES:

- B.Sc., York University, Faculty of Science (1972)

- B.Ed., University of Toronto, Faculty of Education (1974)
- M.Sc., York University, Faculty of Science (1991)

3. EMPLOYMENT HISTORY:

| EMPLOYER | TIME PERIOD | POSITION |
|---------------------------------|--|--|
| York University | 2005-present: Faculty of Liberal Arts and Professional Studies | CLA 2005-2008 Assistant Professor 2008 - 2011 Associate Professor 2011 - 2018 Full Professor 2018 – present |
| Environment Canada | 1976-94 | Weather Forecaster & Instructor, Research Meteorologist |
| | 1994-2005: Institute for Environmental Studies, U. of T. | Natural Hazards and Risk Analyst, Associate Member of the School of Graduate Studies |
| Etobicoke Board of Education | 1974-76 | Teacher of math and science |

4. HONOURS AND AWARDS:

- Environment Canada Award for Excellence (2003)
- York University Merit Award (2011 & 2012)

B. SCHOLARLY AND PROFESSIONAL CONTRIBUTIONS:

1. SUMMARY OF PUBLICATIONS AND PROFESSIONAL CONTRIBUTIONS

- 1 textbook on disaster theory and 6 edited volumes
- 11 book chapters
- 42 refereed publications:
 - 28 publications in peer reviewed journals. Four of these publications have over 100 citations.
 - 2 publications in peer reviewed conference proceedings
 - 12 other refereed publications
- Co-editor of 1 online textbook
- 29 non-refereed articles

- PI or Contributor to several national and international projects, including the IPCC
- Frequent reviewer of manuscripts submitted to peer review journals

Table 1: Summary of Citation indices from Google Scholar, as of Jan. 15, 2018.

| | All | Since 2014 |
|------------------|------|------------|
| Citations | 1492 | 608 |
| h-index | 18 | 12 |
| i10-index | 26 | 14 |

- h-index is the largest number h such that h publications have at least h citations. The second column has the "recent" version of this metric which is the largest number h such that h publications have at least h new citations in the last 5 years.
- i10-index is the largest number h such that h publications have at least h citations. The second column has the "recent" version of this metric which is the largest number h such that h publications have at least h new citations in the last 5 years.

2. PUBLICATIONS

BOOKS, EDITED BOOKS, SPECIAL ISSUES OF JOURNALS

- Etkin, D. (2015). *Disaster Theory: An Interdisciplinary Approach to Concepts and Causes*. Butterworth-Heinemann. 387 pp.
- Haque, C.E. and Etkin, D. (Editors) (2012). *Disaster Risk and Vulnerability: Mitigation Through Mobilizing Communities and Partnerships*. McGill-Queens University Press, 300 pgs.
- Etkin, D. (editor). (2009). *Canadians at Risk: Our Exposure to Natural Hazards*. Institute for Catastrophic Loss Reduction Research Paper #47, 238 pgs. <http://www.iclr.org/listofclimateextremes.html>
- Etkin, D. Murphy, B. and Pearce, L. (editors). 2007. *The Theory and Practice of Emergency Management in Canada*. *International Journal of Emergency Management*. Vol. 4(2)
- Haque, C.E. and Etkin, D. (editors) 2007. *People, Community and Resilience: Societal Dimensions of Environmental Hazards*. *Natural Hazards*, Vol. 41(2).
- Nirupama, N., Bogutska, T., and Etkin, D. (editors). 2005. *Proceedings of the 2nd Annual Canadian Risk and Hazards Network Symposium*. Toronto, Nov. 17-19, 2005 (www.crhnet.ca)
- Etkin, D., Haque, E. and Brooks, G. (editors). 2003. *An Assessment of Natural Hazards and Disasters in Canada*. *Natural Hazards*. Kluwer. Vol. 28 (2-3). <http://www.wkap.nl/prod/b/1-4020-1179-2>

CHAPTERS IN BOOKS

1. Etkin, D. (2013). *Reflections on Modeling Disaster*. *Encyclopedia of Natural Hazards*, Springer, Netherlands, pp. 827-835.
2. Haque, C.E. and Etkin, D. (2012). *Dealing with Disaster Risk and Vulnerability: People, Community and Resilience Perspectives*. In 'Haque, C.E. and Etkin, D. (Editors) (2012).

- Disaster Risk and Vulnerability: Mitigation through Mobilizing Communities and Partnerships. McGill-Queens University Press, pp. 3-23.
3. Etkin, D., Higuchi, K. and Platsis, G. (2011). Thunderstorms and Tornadoes: Science, Impacts, and Coping Strategies. *Rutledge Handbook of Hazard and Disaster Reduction* (December, 2011. Invited paper).
 4. Etkin, D. and Malkin-Dubbins, L. (2010) *Disasters and the In-Between City*. In, "In-Between Infrastructure: Urban Connectivity in an Age of Vulnerability", Roger Keil, Patricia Wood, Douglas Young (eds.) Kelowna, BC: Praxis(e) Press, pp. 49-66, (invited paper)
 5. Etkin, D. (2009). Patterns of Risk: Spatial Planning as a Strategy for the Mitigation of Risk from Natural Hazards. In Fra Paleo, U. (ed.) 2009. *Building safer communities. Risk governance, spatial planning, and responses to natural hazards*. Amsterdam, IOS Press. (invited paper)
 6. Cohen, S., B. Bass, D. Etkin, B. Jones, J. Lacroix, B. Mills, D. Scott and G.C. van Kooten. (2004). "Regional adaptation strategies". In H. Coward and A.J. Weaver (eds.), *Hard Choices: Climate Change in Canada*, Wilfred Laurier University Press, Waterloo, pp. 151-179.
 7. Dore, M., and Etkin, D., (2003). "Natural Disasters, Adaptive Capacity and Development in the 21st Century". In: Pelling, M. (ed.) *Natural Disasters and Development in a Globalizing World*, Routledge, London, chapter 5, 75-92.
 8. Etkin, D.A. and M.F. Myers, (2000). "Thunderstorms in a Social Context" in *Storms Vol. II*, eds. Pielke and Pielke, Routledge Press, pp. 43-59
 9. Etkin, D., M.T. Vázquez and I. Kelman, (1998). "Natural Disasters and Human Activity", A Contribution to the *North American Commission on Environmental Cooperation State of the Environment Report* (Montréal, Canada: North American Commission for Environmental Cooperation)
 10. Etkin, D., (1998). "Climate Change and Extreme Events: Canada" in *Canada Country Study: Climate Impacts and Adaptation - Volume VIII : National Cross-Cutting Issues*, M. Mayer and W. Avis, eds. (Downsview: Environment Canada, Environmental Adaptation Research Group) pp. 31-80
 11. Etkin, D. (1993). "Planning in a Climate of Change: Choices under Uncertainty". In: G. Wall (editor), *Impacts of Climate Change on Resource Management in the North*. *Dep't. of Geography Occasional Paper no. 16*, University of Waterloo, pp. 29-41.

ARTICLES IN REFEREED JOURNALS

1. Etkin, D. (2019) How Risk Assessments by Emergency Management Organizations Fall Prey to Narrow Framing. *International Journal of Emergency Management*, 15(1), 81-97.
2. Mamuji, A. and Etkin, D. (2019). Disaster Risk Analysis Part 2: The Systemic Underestimation of Risk. *Journal of Homeland Security and Emergency Management* 16(1).
3. Etkin, D., Mamuji, A. & Clarke, L. (2018). Disaster Risk Analysis Part 1: The Importance of Including Rare Events. *Journal of Homeland Security and Emergency Management*, 15(2).
4. Feldmann-Jensen, S., Smith, S., Etkin, D., and Jensen, S. (2016). Toward a substantive dialogue: The case for an ethical framework in emergency management, Part. *Australasian Journal of Disaster and Trauma Studies*, 20(1).
5. Etkin, D., Feldmann-Jensen, S., Smith, S., & Jensen, S. (2016). Toward A Substantive Dialogue: The Case For An Ethical Framework In Emergency Management, Part 2. *The Australasian Journal of Disaster and Trauma Studies*, 20(1), 49-53.
6. Etkin, D., Ivanova, J., MacGregor, S., & Serota, T. (2014). Risk Perception and Belief in Guardian Spirits. *SAGE Open*, 4(3), 2158244014549741.
7. Etkin, D. and Timmerman, P. (2013). Emergency Management and Ethics. *International Journal of Emergency Management*, 9(4), 277-297.

8. Nirupama, N., & Etkin, D. (2012). Institutional perception and support in emergency management in Ontario, Canada. *Disaster Prevention and Management*, Vol. 21, Iss:5
9. Etkin, D., Higuchi, K. and Medayle, J. (2012). *Climate Change and Natural Disasters: An Exploration of the Issues*. Journal of Climate Change, June 2012, Volume 112, Issue 3-4, pp. 585-599.
10. Nirupama, N. and Etkin, D. (2009) "Emergency Managers in Ontario: An Exploratory Study of Their Perspectives," *Journal of Homeland Security and Emergency Management*. Vol. 6(1), Article 38.
11. Etkin, D. and Ho, E. (2007). Climate Change: Perceptions and Discourses of Risk. *Journal of Risk Research*. Vol. 10, No. 5, 623–641.
12. Haque, C.E. and Etkin, D. (2007). People and community as constituent parts of hazards: the significance of societal dimensions in hazards analysis. *Natural Hazards* Vol. 41(2), 271-282.
13. Etkin, D. and Stefanovic, I.L. (2005). Mitigating Natural Disasters: The Role of Eco- Ethics. *Mitigation and Adaptation Strategies for Global Change*. Vol. 10, pp. 469-490.
14. Etkin, D, S.E. Brun, A. Shabbar, and P. Joe, (2001). Tornado Climatology of Canada Revisited: Tornado Activity During Different Phases of ENSO. *Int'l. J. of Climatology*,21(8), 915-938.
15. Dore, M. and Etkin, D. (2000). The Importance of Measuring the Social Costs of Natural Disasters at a Time of Climate Change. *Australian J. of Emergency Management*. Spring 2000, Vol. 15 No. 3, pp. 46-48.
16. Etkin, D., (1999). Risk transference and related trends: driving forces towards more mega-disasters. Global Environmental Change Part B: *Environmental Hazards* , Vol:1(2), pp. 51-92, December 1999 , pp. 69-75
17. Etkin, D.A. and Brun, S.E. (1999). "A Note on Canada's Hail Climatology, 1974-1993" *International Journal of Climatology*. Vol. 19(12) pp.1357-1373.
18. Kerry, M., G. Kelk, D. Etkin, I. Burton and S. Kalhok, (1999). "Glazed Over: Canada Copes with the Ice Storm of 1998" in *Environment* 41(1): 6-11, pp. 28-33
19. Colombo, A.F., Etkin, D. and Karney, B.W. (1999). Climate variability and the frequency of extreme temperature events for nine sites across Canada: Implications for power usage. *Journal of Climate*, vol. 12(8), pp.2490-2502.
20. White, R. and Etkin, D.A., (1997): Climate Change, Extreme Events and The Canadian Insurance Industry, *Natural Hazards*, vol. 16, pp. 135-163.
21. Joe, P., Crozier, C., Donaldson, N., Etkin, D., Brun, E., Clodman, S., Abraham. J., Siok. S., Biron, H., Leduc, M., Chadwick, P., Knott, S., Archibald, J., Vickers, G., Blackwell, S., Drouillard, R., Whitman, A., Brooks, H., Kouwen, N., Verret, R., Fournier, G. and Kochtubajda, B. (1995). Recent Progress in the Operational Forecasting of Summer Severe Weather. *Atmosphere-Ocean*, vol. 33(1), pp. 249-302.
22. Etkin, D.A. (1995). Beyond the Year 2000, More Tornadoes in Western Canada? Implications from the Historical Record. *Natural Hazards*, vol. 12, pp. 19-27.
23. Etkin, D.A. and Leduc, L. (1994). A Non-Tornadic Severe Storm Climatology of Southern Ontario Adjusted for Population Bias: Some Surprising Results. *CMOS Bulletin*, vol. 22(3), pp. 4-8.
24. Etkin, D.A. and Ramseier, R.O. (1993). A Comparison of Conventional and Passive Microwave Sea Ice Data Sets for Hudson Bay. *Atmosphere-Ocean*, vol. 31, no. 3, pp. 359-378.
25. Etkin, D.A. (1991). Winter and Summer Surface Air Temperature Trends in the Northern Hemisphere: 1950 to 1988. *Climatological Bulletin* vol. 25, no. 3, pp. 182-193.
26. Etkin, D. (1991). Break-up in Hudson Bay: It's Sensitivity to Air Temperatures and Implications for Climate Warming. *Climatological Bulletin*, vol. 25, no. 1, pp. 21-34.
27. Etkin, D. (1990). Greenhouse Warming: Consequences for Arctic Climate. *ASCE Journal of Cold Regions Engineering*, vol. 4, no. 1, pp. 54-66.
28. Higuchi, K., and Etkin, D. (1986). Trends in Year-to-Year Fluctuations in the Surface Air Temperature, Canadian Arctic. *Physical Geography*, Dec. 1986.

PAPERS IN REFEREED CONFERENCE PROCEEDINGS

1. Etkin, D.A. and Agnew, T. (1991). Arctic Climate in the Future. In: Arctic Environment: Past, Present and Future, M. Woo and K.J. Gregor (editors). *Proceedings of a Symposium, McMaster University, Nov. 14-15, 1991, pp. 17-34.*
2. Etkin, D., Headley, A. and Stoker, K.J.L. (1988). A Long-Term Permafrost and Climate Monitoring Program in Northern Canada. *Fifth International Conference on Permafrost.* Trondheim, Norway. August, 1988, pp. 73-77.

TEXTBOOKS, CURRICULUM MATERIALS

1. Editor and Author: Textbook on “*Disaster & Emergency Management: The Canadian Context*”. A Canadian Risk and Hazards Network Project (www.crhnet.ca). In Progress, at http://www.yorku.ca/etkin/dem_book/

NON-REFEREED ARTICLES

1. Etkin, D. (2017). Hail Climatology for Canada: An Update. Institute for Catastrophic Loss Reduction research paper series No. 58, Toronto, Canada, 48 pp.
2. Etkin, D. (2017). On a Code of Ethics for Emergency Management. OAEM Blog. <https://oaem.ca/category/bloggers/david-etkin/>
3. Etkin, D. (2017). Sweet Spot, or Not: Further Musings. HazNet - The Magazine of the Canadian Risks and Hazards Network, <http://haznet.ca/sweet-spot-not-musings/>
4. Etkin, D. (2015). The importance of worst-case scenarios in disaster risk analysis. OAEM Blog. <https://oaem.ca/category/bloggers/david-etkin/>
5. Etkin, D. (2014). What is Your Dangerous Idea? Newsletter of the Canadian Risk & Hazards Network, Vol. 6(1) Fall, 2014, pp. 37-38.
6. Etkin, D., Buchanan, A., Cheung, G., Lee-Bun, C., Macdonald, K., Marcon, H., Musten, M. and Ristic, M. (2013). A Dangerous Idea. *World Conference on Disaster Management: The Power of Global Networking.* <http://www.wcdm.org/blog/york-university-presents-a-dangerous-idea.html>
7. Etkin, D. and Hutton, D. (2009). Emergency Management: From Principles to Action. In, *Health Policy Research Bulletin: Recognizing the Diversity of Emergency Management as a Discipline and Practice in Canada.* Health Canada (invited paper)
8. Etkin, D. (2009). Beyond the Four Pillars. *CRHNet Newsletter*, Vol. 1(1), pp. 18-19.
9. Etkin, D. (2008). Global Change and Risk Management. In, *Time to Pass the Baton: Disaster Risk Reduction from the Perspective of Environmental Management, Land Use Management, Finance and Public Investment.* J.P. Sarmiento Ed., International Resources Group, USAID, 281-284. (invited paper)
10. Haque, C.E. and Etkin, D. (2007). Preface. In, Haque, C.E. and Etkin, D. (editors) 2007. *People, Community and Resilience: Societal Dimensions of Environmental Hazards.* *Natural Hazards*, Vol. 41(2).
11. Etkin, D. (2005). A Synthesis of the Symposium and Reflection on Reducing Risk through Partnerships. In, Nirupama, N., Bogutskaya, T., and Etkin, D. (editors). 2005. *Proceedings of the 2nd Annual Canadian Risk and Hazards Network Symposium.* Toronto, Nov. 17-19, 2005 (www.crhnet.ca) pp. 36-39.
12. Etkin, D., Haque, E., Bellisario, L. and Burton, I., (2004). An Assessment of Natural Hazards and Disasters in Canada - A Report for Decision-Makers and Practitioners-<http://www.crhnet.ca/>, 45pp.

13. Etkin, D., Haque, C.E. and Brooks, G.R. (2003) Editorial: Towards A Better Understanding of Natural Hazards and Disasters in Canada. In: An Assessment of Natural Hazards and Disasters in Canada. *Natural Hazards*. Kluwer, Vol. 28, No. 2-
14. Etkin, D., Brun, S.E., Chrom, S. and Dogra, P., (2002). A Tornado Scenario for Barrie, Ontario. Institute for Catastrophic Loss Reduction Research Paper, *ICLR Research Paper Series #20*, 13 pp.
15. Etkin, D. (editor) (2002). Proceedings of the North Atlantic Treaty Organisation, Committee on the Challenges of Modern Society Natural Hazards Workshop, Toronto, Canada, April 2002 <http://www.utoronto.ca/env/nato/>
16. Bellisario, L.M. and Etkin, D., (2001). Climate Change and Extreme Weather Events in the Toronto-Niagara Region. AIRG Meteorological Service of Canada, *TNR Report 2001-2*, 32 pgs.
17. Etkin, D., Kelman, I., and Vasquez, M.T., (2001). Natural Disasters. In *The North American Mosaic: A State of the Environment Report*. Commission for Environmental Co-operation, NAFTA, pp. 71-74.
18. Kumar, A., Burton, I. and Etkin, D. (2000). Assessment of the Flood Hazard and Mitigative Measures in Canada: Report of an Independent Expert Panel. Government of Canada Report, 30pp.
19. Etkin, D.A., (1999). 'Natural Hazards'. In 'Human Activity and the Environment' (Ottawa: Statistics Canada) pp.187-192
20. Etkin, D.A., (1999). Extreme Events and Natural Disasters in an Era of Increasing Environmental Change. In, Report of a May 14, 1999 Workshop on Emerging Environmental Issues in Ontario. Environmental Monograph No. 15. Institute for Environmental Studies, University of Toronto, pp. 19-22.
21. Etkin, D., (1999). Socio-Economic Impacts of Extreme Events, and Issues on the Effectiveness of Warnings. Proceedings: Sixth Workshop on Operational Meteorology. Nov. 29-Dec. 3, 1999. Halifax NS. pp. 189-197.
22. Bush, E., D.A. Etkin, D. Hayley, E. Hivon, B. Ladanyi, B. Lavender, G. Paoli, D. Riseborough, J. Smith and M. Smith, (1998). Climate Change Impacts on Permafrost Engineering Design (Downsview: Environment Canada, Environmental Adaptation Research Group).
23. Burton, I., Etkin, D. and Lauterbach, D., Geneva 25 August (1998), UNDP Report. Disasters and Development: El Niño pleads not guilty. A Report on the Impacts of El Niño in 1997/98 and the Implications for Disaster Management
24. Etkin, D.A. and Brun, S.E., (1997): Climate Change and The Future of Canadian Atmospheric Hazards, in; Coping with Natural Hazards in Canada: Scientific, Government and Insurance Industry Perspectives, Insurers Advisory Org. Inc., Toronto, pp. 66-72.
25. Brun, S.E. and Etkin, D.A., (1997): Discourse on Occurrence Definition, in; Coping with Natural Hazards in Canada: Scientific, Government and Insurance Industry Perspectives, Insurers Advisory Org. Inc., Toronto, pp. 111-120.
26. Brun, S.E. and D.A. Etkin, (1997). "The Space-Time Proposal" *The Review- Worldwide Reinsurance*, October 1997: pp.49-51
27. Etkin, D.A., (1997): The Social and Economic Impact of Hydrometeorological Hazards and Disasters in Canada: a Preliminary Inventory in; Coping with Natural Hazards in Canada: Scientific, Government and Insurance Industry Perspectives, Insurers Advisory Org. Inc., Toronto, pp. 74-110.
28. Yazici, D., Pressnail, K., O'Malley, D., O'Malley, L. and Etkin, D. (1996) Impact of Climate on the Cost of Buildings. *CMOS Bulletin*, vol. 24(5), 105-111.
29. Etkin, D. and Maarouf, A. (1995). An Overview of Atmospheric Natural Hazards in Canada. In: Proceedings of a Tri-Lateral Workshop on Natural Hazards. D. Etkin (editor), Merrickville, Canada, Feb. 11-14, 1995, pp. 63-92.
30. Etkin, D. (1991). A Comparison of Conventional and Passive Microwave Sea Ice Data Sets for Hudson Bay. *M.Sc. Thesis, York University*, North York, Ontario, 132 pp.

31. Etkin, D. (1990). Equivalency of Greenhouse Gases. *CO₂ Climate Report, no.90-01*, Environment Canada.
32. Etkin, D. (1989). Elevation as a Climate Control in Yukon. *Inversion, The Newsletter of Arctic Climate, no. 2*, Atmospheric Environment Service, Canada, pp. 12-14.
33. Etkin, D. (1980). Black is the Same as White. *Chinook, vol. 3(1)*.

OTHER PEER REVIEWED PUBLICATIONS

1. Etkin, D., McBey, K, and Trollope, C. (2010). *The role of the military in emergency management in Canada*. In, Textbook on "Disaster & Emergency Management: The Canadian Context". A Canadian Risk and Hazards Network Project (www.crhnet.ca). http://www.yorku.ca/etkin/dem_book/
2. Stuart, R.A., Etkin, D.A. and Judge, A.S. (1991). Recent Observations of Air Temperature and Snow Depth in the Mackenzie Valley Area and their Implications on the Stability of Permafrost Layers. Atmospheric Environment Service, *Canadian Climate Centre Report no. 91-2*, Downsview, Ontario, 178 pp.
3. Etkin, D. (1991). Enhanced Greenhouse Warming: Regional Response and Believability. Atmospheric Environment Service, *Canadian Climate Centre Report no.91-6*, Downsview, Ontario, 33 pp.
4. Etkin, B. and Etkin, D. (1990). Critical Aspects of Trajectory Prediction: Flight in Non-Uniform Wind. *NATO AGARDograph no. 301, vol. 1*, pp. 5-1 to 5-12.
5. Etkin, D., Headley, A. and Stoker, K. (1988) Permafrost-Climate Activities Within the Canadian Climate Centre. Atmospheric Environment Service, *Canadian Climate Centre Report no. 88-7*, Downsview, Ontario, 92 pp.
6. Etkin, D. (1987). Temperature and Precipitation Time-Series Graphs for Yukon. Atmospheric Environment Service, *Canadian Climate Centre Report No. 87-17*, Downsview, Ont., 332 pp.
7. Etkin, D., Higuchi, K. and Macdonald, W. (1986). A Note on the Semi-Annual Temperature Cycle in the Canadian Arctic. Atmospheric Environment Service, *Canadian Climate Centre Report No. 86-16*, Downsview, Ont., 22 pp.
8. Etkin, D. and Macdonald, W. (1986). Annual and Seasonal Climate Scenarios for a Warmer Arctic. Atmospheric Environment Service, *Canadian Climate Centre Report No. 86-1*, Downsview, Ont., 25 pp. + 4 App.
9. Etkin, D. (1980). Gravity Wave Initialization of an Area of Severe Convective Weather. *AES Technical Memorandum no. 876, 19 pp.*

3. WORKS SUBMITTED

None.

4. WORKS IN PROGRESS

1. The Ethical Emergency Manager (book)
2. The Narratives of Disaster: Sensemaking in Crisis (paper)

5. PROFESSIONAL SERVICE

EDITORIAL POSITIONS

- PLOS Currents: Disasters (2016-2017).
- Journal of Homeland Security and Emergency Management (2007-2011).
- Emergency Management Canada (2005-2009).

OFFICES IN PROFESSIONAL ASSOCIATIONS

- Past President, Board of Directors of the Canadian Risk and Hazards Network (www.crhnet.ca) . Along with Prof. C.E. Haque of the U. of Manitoba, I worked to create this network – the first of its kind in Canada. It has now successfully run 11 annual international conferences.
- Board of Directors, Canadian Centre for Emergency Preparedness (www.ccep.ca), 2008-2012.

MAJOR CONSULTATIONS, IN-SERVICE WORKSHOPS, AND ORGANIZATION OF CONFERENCES

- Expert Review: Canada's National Risk Profile, Public Safety Canada, 2019
- Expert Review Panel for Emergency Management Ontario: Ontario Nuclear Response Plan. August/September 2017.
- Lecture on Hazard Mitigation. To a Delegation from the Chinese Meteorological Association and Dep't of Emergency Services. June 2017.
- Invited Presentation on EM Ethics for FEMA Training Session for EM Executives, National Emergency Training Center, April 2017
- External Assessment of the Algonquin College Bachelors of Public Safety. June 2016
- External Assessment of the International Development Graduate Certificate Program at Humber College. September/October 2015.
- Hazards to Simon Fraser University Associated with the Trans Mountain Expansion Project: A Gap Analysis. Evidence submitted to the National Energy Board on behalf of SFU. September 2015.
- Symposium Chair, *11th Canadian Risk and Hazards Conference*, Toronto, October 2014.
- City of Vancouver: Evaluations of a (1) Risk Assessment Proposal of the Enbridge Northern Gateway Project, and (2) Trans Mountain Pipeline Expansion Project Risk Assessment Methodology, Evidence submitted to the National Energy Board on behalf of the City of Vancouver, 2014.
- External Review of the Masters of Arts in Disaster and Emergency Management, Royal Roads University, October 2012.
- World Bank: Comparative Risk Assessment of Bangkok, Manila and Ningbo. 2010-11.
- Chair, *Second Canadian Risk and Hazards Conference*, Toronto, November 2005.
- Chair, *NATO CCMS 2nd workshop on Natural Hazards and Disasters*, U. of T., Toronto, Ontario, Oct, 2003
- Chair, *NATO CCMS 1st workshop on Natural Hazards and Disasters*, U. of T., Toronto, Ontario, April, 2002

OTHER

- International Projects.
 - Intergovernmental Panel on Climate Change (2007), Working Group II Report, "Impacts, Adaptation and Vulnerability", contributing author and reviewer.
 - NATO Committee on Challenges in Modern Society - Short Term Project on Natural Hazards (2003) (Principal Investigator):
<http://basalt.geology.utoronto.ca/basinanalysis/admwebnathazworkshop.pdf>
 - 2nd U.S. Assessment on Natural Hazards (participant). "Disasters By Design: A Reassessment of Natural Hazards In The United States" (1999), National Academy Press, Washington, D.C.
http://www.colorado.edu/hazards/publications/bibliography_disastersbydesign.html
 - Natural Hazards Map for North America: National Geographic Magazine, July 1998 (participant),
<http://www.nationalgeographic.com/media/ngm/9807/hilights.html#a>
- *National Projects*
 - Natural Hazards Map for Canada: Canadian Geographic Magazine, March/April 1997 (participant)
<http://www.publicsafety.gc.ca/res/em/nh/hazardsmap.pdf>
 - Canadian Natural Hazards Assessment Project (Principal Investigator):
http://www.msc-smc.ec.gc.ca/projects/hazards_assessment/index_e.cfm

6. PUBLIC APPEARANCES & MEDIA

- CTV, Canada AM, March 12, 2007
- Phone Interviews by The New York Times & York Excalibur, October 2014

7. FUNDING
Research grants

- 2017. Update of Canada's Hail Climatology. Institute for Catastrophic Loss Reduction. \$23K
- 2014. 11th Canadian Risk and Hazards Network Conference. \$25K SSHRC.
- 2009. *The Guardian Angel Factor: How Belief in Guardian Angles Affects Risk Preferences*, PI: \$1K. Atkinson New Faculty Grant.
- 2009. *Perceptions of Emergency Managers in Canada: Part 2* Co-investigator. \$30K. SSHRC.
- 2008. *Perceptions of Emergency Managers in Canada: Part 1*, Co-investigator. \$3K. SSHRC.

- 2002. *Assessment of Natural Hazards and Disasters in Canada*. PI: \$90K. Environment Canada. Completed.

C. TEACHING

1. SUMMARY OF TEACHING AND TEACHING CONTRIBUTIONS

- Proposal for a PhD in Disaster & Emergency Management (in progress).
- Assisted with the development of a graduate and undergraduate program in disaster and emergency management.
- Courses developed at the undergraduate and graduate level.

2. UNDERGRADUATE

COURSES TAUGHT

- *ADMS 3702 Comprehensive Emergency Management: Integrating Critical Knowledge with Practice (*course created and developed by me).
- ENVS 4440 Environmental Disasters.
- ADMS 3705 Emergency Management Field Experience.

GUEST LECTURES IN OTHER COURSES

- *Climate Change Lecture*. AK SOSC 1950 Prospects and Perils of the 21st Century, York University, Falls 2007-2009 inclusive.

3. GRADUATE

COURSES TAUGHT

- *DEMS 5020 Disasters: Concepts and Causes DEMS 5080 Disaster and Emergency Management Internship.
- *DEMS 6070 Disaster Ethics.
- DEMS 5040 Natural Disasters (2010).

* Courses created and developed by myself

INDEPENDENT STUDY OR READING COURSES DIRECTED (DEMS 5000)

- Conner Rapus, 2018.
- Moira Hennebury, 2018
- Sarugan Kannathas, 2018
- Sarah Thompson, 2016. Metrics and Measures of Success.

- Gill Coyles, 2015. Disaster Ethics.
- Kyle Boulden, 2015. Canada's Critical Infrastructure
- Hartisha Marthur, 2014. Climate Change Extremes
- Haroon Azam, 2014. Implications of Risk Research to the Public: Communication, Policy and Behavioural Challenges
- Harshita Mathur, 2014. Disasters and Heat Waves.
- Sarah Dionne, 2011. Demographics and Disaster: The Effect of Demographics on Vulnerability to Disaster and Emergency Preparedness
- Brittany Blackstone, 2011. Risk Perception and Disaster Entertainment
- Tanya Gulliver, 2008, Heat Stress and Adaptive Strategies

MASTERS THESES/MRP SUPERVISIONS/COMMITTEES

- Supervisor (completed): Sonja Zupanec, Carla McCracken, Janelle Rose, Rebecca Hanson, Lily Malkin Dubbins, Jayne King, Yulia Platonov, Amber Panchyshyn, Ann Baka, Khondoker Hassan, Patricia Yang, Colette Delmaire, Murtaza Khan, Nicholas Meunier, Max Hayman, Murtaza Khan, Soheila Rostami, Muhammad Faraz Hassan Syed, Hebba Elmoslimany,
- Supervisor (in progress): Jenny Lam
- Committee (completed): Andrew Columbo, Kevin Pal, Jessica Johnson, Sangay Bhutia, Vipushitha Siripathy, Will Batson, Alexandra Musten, Maja Ristic, Tannaz Zargarian/

DOCTORAL THESES SUPERVISIONS/COMMITTEES

- Committee (completed): Alexandre Gagnon, Elise Ho, Ellen Meadd, Tanzina Moshin, Patricia Martel (Geography, Wilfred Laurier)
- Committee (in progress): Tanya Gulliver (FES)

GUEST LECTURES IN OTHER GRADUATE COURSES

- Natural Disaster Lecture, Env1704s Environmental Risk Analysis and Management, U. of T., Falls 2003-2007 inclusive, for Prof. Lino Grima (retired)

4. OTHER TEACHING-RELATED ACTIVITIES

Professional Presentations (2005 onward)

1. CRHNet 2019. The Precautionary Principle: Misunderstood or Misguided? Survival in the Age of Catastrophe.
2. CRHNet 2017. How Risk Assessments by Emergency Management Organizations Falls Prey to Narrow Framing.
3. FEMA Higher Education Conference. *Emergency Management Ethics*. FEMA Campus, Emmitsburg, MD, June 2015 and June 2016.
4. Canadian Risk and Hazards Conference. Fat Tails, Disaster Risk Analysis & the Denial of Catastrophe, Calgary, November 2015.

5. Provincial Emergency Management Coordinating Committee. *A Proposed Code of Ethics for Emergency Managers and Emergency Management Organizations*. Toronto, November 26, 2014.
6. Panelist: *Climate Change and the Implications for Canada and Our Communities*. Toronto Climate Action Network, Region of Peel, October 1, 2014. <http://tcan.ca/event/climate-change-and-implications-canada-and-our-communities>
7. *Panel Moderator: Breaking Points: The Toronto Ice Storm of 2013*. World Conference on Disaster Management, Toronto, June 2014.
8. *Sino-Canada Technology Exchange Centre*. Disaster Management and Meteorological Institutions. Workshop for Government Officials from the Meteorological Service of China. Markham Ontario, November, 2013.
9. *Emergency Management and Ethics*. World Conference on Disaster Management. Toronto, June 2013.
10. *The Haiti Earthquake of 2010: Lessons Learned*. Chair: Role of the Local, National and International Media; Communication Challenges; Reality, Myths, and Perception Issues. York University, January 2011.
11. *Canadian Risk and Hazards Network Conference*. The Effect of a Belief in Guardian Angels or Spirits on Risk Perception. Ottawa, October 19-21, 2011.
12. *FEMA Higher Education Conference*. A Conceptual Model of the Military and Disaster Management. Maryland, June 7, 2010 (with Professor K. McBey)
13. *Sino-Canada Technology Exchange Centre*. *Workshop on Disaster and Emergency Management for Chinese Government Delegation*. Markham, Ontario. November 29, 2010.
14. *York University, Risk and Accountability Symposium*. Be Afraid, Be Very Afraid. Panel Discussion on Disaster and Environmental Risk. April 30, 2010.
15. *York University, SAS Brown Bag Seminar Series*. March, 2010. Climate Change and Natural Disasters: A Risk Perspective.
16. *Disaster Myths*. January 17, 2010. Red Cross, Toronto, Canada
17. *Climate Change and Emergency Management, Global Perspectives, Local Challenges*. B.C. Emergency Preparedness Conference 2009. November 25, 2009. Vancouver, B.C.
18. *Pandemic Planning and Poverty: An Emergency Management Perspective*. Panel Discussion on Poverty, Pandemics and Effective Planning. Faculty of Environmental Studies, York University, November 10, 2009.
19. *Reflections on Pandemic Planning: The Case of H1N1*. Panel Chair, Research Matters, Faculty of LA&PS, October 30, 2009.
20. *Climate Change and Risk*. Sept 16, 2009. Conference Board of Canada, Winnipeg, Canada.
21. *Environmental Sociology- Linking Research and Policy in Response to Contemporary Global Emergencies*. Panel Session Discussant. *Environmental Studies Association of Canada, 2009 Annual Conference, May 27-29, 2009, Carleton University, Ottawa, Ontario*
22. *Risk Perspective on Climate Change*. February 22, 2009. Columbia University, New York.
23. *Respondent: Panel on Community Characteristics and Resilience Issues*. *Public Safety Canada, Canadian Centre of Intelligence and Security Studies*. Resilience in Canada. December 15, 2008, Carleton University, Ottawa.
24. *Spatial Planning as a Strategy for Mitigation and Adaptation to Natural Hazards*. Disaster Management, NATO Advanced Training Course, March 2008, Santiago de Compostela, Spain
25. *Facilitating Emergency Preparedness for Vulnerable Populations*. 2nd Annual UN International Day of People with Disabilities, EMO December 2008, Toronto, Canada.
26. *Emergency Managers in Ontario, Canada: An Exploratory Study of Their Perspective*, 5th Annual CRHNet Conference, November 2008, St. John's, Nfld.
27. *Patterns of Hazard, Vulnerability and Risk*. NATO Advanced Training Course: Spatial Planning as a Strategy for Mitigation and Adaptation to Natural Hazards. March 3-8, 2008, University of Santiago de Compostela, Spain.

28. *Climate Change - A Serious Long Term Threat for Businesses (and everything else)*. EPICC Conference, February 26, 2008, Vancouver, Canada
29. *The Big Picture - Climate Change Effects in Canada by 2027* (Panel moderator and presenter). Conference Board of Canada: Adapting to Climate Change: Business Planning, Risk Management and Emergency Preparedness. Jan. 21/22, 2008, Ottawa, Canada.
30. *Accident Theory and Complex Systems*, Emergency Management Ontario, October 2007, Toronto, Canada.
31. *Climate Change and Our Shifting Risk Environment*. 17th WCDM Toronto, July 9, 2007, Toronto, Canada.
32. *The Changing Context of Disaster Management*. RedR Canada Training Course on Disaster Management. July 11-12, 2007. York University.
33. *Climate Change and Our Shifting Risk Environment*. 17th World Conference on Disaster Management. July 8-10, 2007, Toronto, Canada.
34. *The Risk of Natural Hazards*, Workshop on In-Between Infrastructure: Urban Connectivity in an Age of Vulnerability, February 2007, York University, Toronto
35. *The Future is a Scary Place: Our Shifting Risk Environment*. Workshop on Medical Surge Capacity. June 16, 2007, Ottawa, Ontario,
36. *The Canadian Military and Emergency Management*. York University Panel EMO - York University Learning Series Session III, April 12, 2007, Toronto
37. *Knowledge to Action: Reaching Practitioners*. PSEPC Workshop on Emergency Management Education. Nov. 14, 2006. Ottawa, Ontario.
38. *The Militarization of Emergency and Disaster Management*. Emergency Management Ontario – York EM Education Series, November 6, 2006. Toronto, Ontario
39. *Emergency Management and Contingency Planning: The New Normal*, 4th Annual National Meetings Industry Day Conference, April 3, 2006, Ottawa, Ontario.
40. *Foresight, precaution and risk: preparing for the unexpected: Learning the lessons from past crises and catastrophes to enable early and effective response to future risks*. NATO Advanced Research Project 2-5 May 2005, Chisinau, Moldova
41. *Extreme Weather and Societal Vulnerability*. Climate Scenarios Workshop, Jan 31- Feb. 1, 2005, Ottawa, Ontario.

5. COURSE/CURRICULUM DEVELOPMENT

- Lead on proposal for a PhD in DEM at York U. (in progress)
- Assisted with the development of a BA and Masters in Disaster and Emergency Management at York.
- Development of ADMS 3702, DEMS 5020, DEMS 6070
- Development of several proposed courses as part of the PhD proposal: DEMS 7700, DEMS 7720 & DEMS 7721.

D. SERVICE

1. UNIVERSITY SERVICE

- Graduate Program Director: 2016-current
- FGS Petitions Committee: 2012-2016
- Area Coordinator: 2005-2007; July 2010-2012
- Graduate Program Director: 2007-2010
- SAS Research & Ethics Committee Member: 2009-2011
- FGS Awards Committee Member: June 2009-2011
- Member of Executive Committee of IRIS: 2006-2009

2. COMMUNITY SERVICE – RELATED TO WORK AT THE UNIVERSITY

- With Prof. Nirupama, assisted the Salvation Army, Maxwell Meighen Centre, with the development of an emergency plan (2006)
- Member of the *Emergency Management Doctrine And Standards Committee*, Emergency Management Ontario (2008-2012)
- Member, *EMO Task Group on Glossary of Terms*, Emergency Management Ontario (2010 – 2012).