Education

PhD Geophysics (2014 – 2019)

School of Earth & Atmospheric Sciences, Georgia Institute of Technology

Thesis: Using Dense Geodetic and Seismic Instrumentation to Characterize Postseismic Behavior of the Nicoya Megathrust (Andrew Newman)

MSCE Geotechnical Engineering (2017 – 2019)

School of Civil & Environmental Engineering, Georgia Institute of Technology

MSc Geophysics (2012 – 2014)

School of Earth & Ocean Sciences, University of Victoria

Thesis: Insights from the Mw 7.8 Haida Gwaii Earthquake: Static Stress Modelling and Empirical Green's Function Analysis (John Cassidy and Stan Dosso)

BSc Geology (2008 – 2012)

Department of Earth & Planetary Science, McGill University

Honours Thesis: Seismic Anisotropy in Southern Quebec using SkS Splitting (Fiona Darbyshire)

Work Experience

Adjunct Professor July 2020 – present

University of British Columbia, Vancouver, BC Department of Earth, Ocean, and Atmospheric Sciences

Full Time

Research Scientist May 2020 – present

Postdoctoral Researcher June 2019 – April 2020

Geological Survey of Canada, Vancouver, BC

Public Safety Geosciences Program

Full Time

Consultant & Field Party Leader May 2019 - present

Europa Seismic Package Science Development Team (NASA ICEE-2)

Washington Glacier Deployment

Part-time

Freelance Science Writer January 2018 – present

Temblor, Inc., Redwood City, CA, USA

Earthquake News

Part Time

Teaching Assistant January 2015 – April 2019

Georgia Institute of Technology, Atlanta, GA, USA

Earth & Atmospheric Sciences Department

Part Time

Field Technician *August* 2018 – *December* 2018

Georgia Institute of Technology, Atlanta, GA, USA

RISEUP Field Work in Antarctica (NASA PSTAR)

Full Time

Outreach Instructor September 2015 – April 2017

Georgia Institute of Technology, Atlanta, GA, USA

'Kids Interested in Discovering Science' Club

Part Time

Work Experience Continued

Teaching Assistant September 2012 – May 2014 University of Victoria, Victoria, BC, Canada School of Earth & Ocean Sciences Part Time

Research Assistant May 2012 – September 2012 University of British Columbia, Vancouver, BC, Canada Department of Civil Engineering Full Time

Geological Assistant May 2011 – August 2011 Osisko Gold Royalties Ltd., Montréal, PQ, Canada Hammond Reef Development Full Time

Research Assistant, May 2010 – September 2010 L'Université du Québec à Montréal, Montréal, PQ, Canada Département des sciences de la Terre et de l'atmosphère Full Time

Published Work

Hobbs, T.E., Journeay, J.M., LeSueur, P. (2021), *Developing a retrofit scheme for Canada's Seismic Risk Model*. Geological Survey of Canada, Open File 8822, 10 pages, doi:10.4095/328860.

Hobbs, T.E., Journeay, J.M., Rotheram, D. (2021), *An Earthquake Scenario Catalogue for Canada: A Guide to Using Scenario Hazard and Risk Results*. Geological Survey of Canada, Open File 8806, 22 pages, doi:10.4095/328364.

Colvin, C., Hobbs, T.E. (2021). Finance Canada, Confidential Document.

Hobbs, T.E., Newman, A.V., Protti, M. (2019), *Enigmatic Upper-Plate Sliver Transport Paused by Megathrust Earthquake and Afterslip*. Earth and Planetary Science Letters, PII:S0012-821X(19)30285-7.

Hobbs, T.E., Kyriakopoulos, C., Newman, A.V., Protti, M., Yao, D. (2017), *Large and Primarily Updip Afterslip following the 2012 Mw 7.6 Nicoya, Costa Rica earthquake*. Journal of Geophysical Research: Solid Earth, *122*, doi:10.1002/2017JB014035.

Yao, D., Walter, J.I., Meng, X., **Hobbs, T.E.**, Peng, Z., Newman, A.V., Schwartz, S.Y., Protti, M. (2017), *Detailed Spatio-Temporal Evolution of Microseismicity and Repeating Earthquakes following the 2012 Mw7.6 Nicoya Earthquake*. Journal of Geophysical Research: Solid Earth, doi:10.1002/2016JB013632.

Bird, A.L., Cassidy, J.F., Kao, H., Leonard, L.J., Allen, T.I., Nykolaishen, L., Dragert, H., **Hobbs, T.E.**, Farahbod, A.M., ... and Rogers, G.C., (2016), *The October 2012 magnitude (MW) 7.8 earthquake offshore Haida Gwaii, Canada*. Summary of the Bulletin of the International Seismological Centre, **49**, 7-12.

Darbyshire, F.A, Bastow, I.D., Forte, A.M., **Hobbs, T.E.**, Calvel, A., Gonzalez-Monteza, A., Schow, B. (2015), *Variability and Origin of Seismic Anisotropy Across Eastern Canada: Evidence from Shear-wave Splitting Measurements*. Journal of Geophysical Research: Solid Earth, **120**, 8404–8421, doi:10.1002/2015JB012228.

Hobbs, T.E., Cassidy, J.F., Dosso, S.E., and Brillon, C. (2015), *Coulomb Stress Changes Following the Mw 7.8 2012 Haida Gwaii, Canada Earthquake: Implications for Seismic Hazard*. Bulletin of the Seismological Society of America, **105**, 2B. doi: 10.1785/0120140158.

Hobbs, T.E., Cassidy, J.F., and Dosso, S.E. (2015), *Rupture Process of the Mw 7.8 2012 Haida Gwaii Earthquake from an Empirical Green's Function Method*. Bulletin of the Seismological Society of America, **105**, 2B. doi: 10.1785/0120140175.

Hobbs, T.E. and Darbyshire, F.A (2012), *Point Estimates of Crustal Thickness Using Receiver Function Stacking*. McGill Science Undergraduate Research Journal, **7**, p. 19–25.

Work In Preparation

Hobbs, T.E., Journeay, J.M., Rao, A., Simionato, M., Martens, L., Kolaj, M., Rotheram, D., LeSueur, P. (2021), *Scientific Underpinnings of Canada's First National Seismic Risk Model*. Earthquake Spectra. *In Prep*.

Hobbs, T.E., (2021), *Scenarios for British Columbia's Earthquake Immediate Response Plan*. Geological Survey of Canada, Open File #, # pages, DOI. *In Prep*.

Hobbs, T.E., Yao, D., Neves, M.J.G.F.G., Newman, A.V., Peng, Z., Protti, M., Kemmerlin, M.S. (2022), *Defining the Relationship Between Afterslip and Aftershocks Using Dense Seismic and Geodetic Networks in Nicoya, Costa Rica*. Journal of Geophysical Research. *In Prep*.

Hobbs, T.E., Journeay, J.M., Rao, A. (2022), *Validating Scenario Performance in the First Canadian Seismic Risk Model*. Earthquake Spectra. *In Prep*.

Bird, A.L., Journeay, J.M., **Hobbs, T.E.**, Cassidy, J.F., Wagner, C., Bristow, D., Deelstra, A., Chouinard, P. (2022), *Exercise Coastal Response 2022: Scenario Earthquake and its Potential Impacts*. Geological Survey of Canada, Open File #, # pages, DOI. *In Prep*.

Conference Proceedings

Hobbs, T.E.. *Coming Together for "Smarter Solutions"*. Sustainability Research & Innovation Congress, Hybrid Virtual, Brisbane, Australia, 2021. *Invited Presentation*.

Hobbs, T.E., Journeay, J.M., Rotheram, D., Chow, W., van Ulden, J., Wagner, C., LeSueur, P., Bird, A., Rao, A., Simionato, M. *Earthquake Scenarios for Community Resilience*. Vancouver Island Emergency Preparedness Virtual Conference, Virtual, Canada, 2021. *Invited Presentation*.

Hobbs, T.E., Journeay, J.M., van Ulden, J., Rotheram, D., Chow, W., Herring, J., Pagani, M., Johnson, K., Rao, A. *A First Public National Seismic Risk Model for Canada*. Annual Meeting of the Seismological Society of America, Virtual, USA, 2021. *Oral Presentation*.

Styron, R., **Hobbs, T.E.**, Harrichhausen, N., Journeay, J.M. *Estimating Fault Slip Rates in the Cascadia Region of North America Using Joint Geologic-Geodetic Block Modeling*. Annual Meeting of the Seismological Society of America, Virtual, USA, 2021. *Oral Presentation*.

Wong, S., **Hobbs, T.E.**, Geertesema, M. *Evaluating Landslide Forecasting in British Columbia, Canada*. Annual Meeting of the Seismological Society of America, Virtual, USA, 2021. *Poster Presentation*.

Hobbs, T.E. The Geological Survey of Canada's Earthquake Risk Assessment Framework to Support Canada's Emergency Management Strategy. The Lands and Minerals Sector Science Advisory Committee – Science Policy Forum on Safety & the Environment, Ottawa, ON, Canada, 2021. Oral Presentation.

Hobbs, T.E., Journeay, J.M., Yip, J.Z.K., Rao, A. *Benchmarking Scenario Performance in the First Generation Canadian Seismic Risk Assessment*. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2020. *Poster Presentation*.

Hobbs, T.E., Kaya, Y., Journeay, J.M., Singh, G., Bird, A.L., Cassidy, J.F., van Ulden, J., and Rotheram-Clarke, D. *Improving Situational Awareness During Early Earthquake Response Using Existing Seismic Risk Models to Rapidly Estimate Damage*. American Geophysical Union, San Francisco, CA, USA, 2020. *Poster Presentation*.

Kedar, S., Panning, M.P., Standley, I.A., Blaes, B.R., Walsh, W., Calcutt, S.B., Pike, W.T., Pierce, D.R., Schmidt, B.E., **Hobbs, T.E.**, Badalian, M., Liu, J., and Franklin, G.W. *The Europa Seismic Package*. American Geophysical Union, San Francisco, CA, USA, 2020. *Poster Presentation*.

Newman, A.V., Protti, M., Schwartz, S.Y., Dixon, T.H., **Hobbs, T.E.**, Voss, N.K., Kyriakopoulos, C., Yao, D., Chaves, E.J., Jiang, Y., Feng, F., DeShon, H., Walter, J.I., Yang, H., Xie, S., and Gonz/'alez, V.M. *Two Decades of Geodetic and Seismological Insight into the Seismogenic Zone: A View from Nicoya, Costa Rica*. American Geophysical Union, San Francisco, CA, USA, 2020. *Oral Presentation*.

Pol, K., Journeay, J.M., and **Hobbs, T.E.** *Mainstreaming Seismic Resilience: Transforming Earthquake Risk Information into Plans for Resilient Communities.* Understanding Risk British Columbia Symposium, Vancouver, BC, Canada, 2020. *Workshop*.

Conference Proceedings Continued

Hobbs, T.E., Journeay, J.M., and Singh, G. *Test Driving a Rapid Disaster Modelling Methodology for British Columbia Earthquakes*. Understanding Risk British Columbia Symposium, Vancouver, BC, Canada, 2020. *Workshop*.

- Journeay, J.M., Yip, J.Z.K., **Hobbs, T.E.**, Safaie, S., Bristow, D., Deelstra, A., and Chouinard, D. *Black Swans Over Vancouver: From Understanding Risk to Identifying Interventions and Related Risk Reduction Targets*. Understanding Risk British Columbia Symposium, Vancouver, BC, Canada, 2020. *Workshop*.
- **Hobbs, T.E.**, Kaya, Y., Journeay, J.M., Singh, G., Bird, A.L., Cassidy, J.F., van Ulden, J. and Rotheram-Clarke, D. *Developing a Rapid Disaster Modelling Methodology for Earthquakes in British Columbia*. Natural Hazards Center Workshop, Boulder, CO, USA, 2020. *Poster Presentation*.
- **Hobbs, T.E.**, Hughson, K.H.G., Quartini, E.S., Schmidt, B.E., Panning, M.P., Washam, P.M., Dichek, D.J.G., Hurwitz, B.C., Lawrence, J.D., Hulbe, C.L., Horgan, H.J. *Today Antarctica, Tomorrow Europa: Testing Broadband Seismometers in Icy Earthly Analogs.* Annual Meeting of the Seismological Society of America, Albuquerque, NM, USA, 2020. *Oral Presentation.* *Cancelled for COVID19.
- **Hobbs, T.E.**, Journeay, J.M., Rao, A. *Benchmarking the First Generation Canadian National Seismic Risk Assessment*. Annual Meeting of the Seismological Society of America, Albuquerque, NM, USA, 2020. *Oral Presentation*. *Cancelled for COVID19.
- Bombardier, M., **Hobbs, T.E.**, Cassidy, J.F., Kao, H., Dosso, S.E. *Analysis of the Atypical 2018 and 2019 Episodic Tremor and Slip Events in Northern Cascadia*. Annual Meeting of the Seismological Society of America, Albuquerque, NM, USA, 2020. *Poster Presentation*. *Cancelled for COVID19.
- **Hobbs, T.E.**, Journeay, J.M., Bird, A.L. Assessing and Communicating Risk from Low-Activity Faults in British Columbia, Canada. SAGE GAGE Workshop, Portland, OR, USA, 2019. Poster Presentation.
- **Hobbs, T.E.**, Newman, A.V., Protti, M. *Unexpected forearc sliver translation during relocking of the Nicoya, Costa Rica megathrust*. Megathrust Modeling Workshop (Modeling Collaboratory for Subduction Research Coordination Network), Eugene, OR, USA, 2019. *Poster Presentation*.
- Lawrence, J.D., Schmidt, B.E., Glass, J.B., Hamerton, E.K., Bowman, J.S., Lawrence, J.P., Meister, M.R., Dichek, D., Ramey, C., Mullen, A.D., Bryson, F.E., Hurwitz, B., Spears, A., **Hobbs, T.E.** *Water Circulation and Microbial Diversity in Antarctic Ocean World Analog Environments*. AGU Astrobiology Science Conference, Seattle, WA, USA, 2019. *Oral Presentation*.
- Mullen, A.D., Schmidt, B.E., Dichek, D., Lawrence, J., Meister, M.R., Ramey, C., Bryson, F.E., **Hobbs, T.E.**, Spears, A., Hurwitz, B., Serabyn, E., Bedrossian, M., Rider, S., Wallace, J.K., Nadeau, J.L., Lindensmith, C.A. *Digital Holographic Microscopy for the Icefin Underwater Vehicle: Initial Progress and Future Steps.* AGU Astrobiology Science Conference, Seattle, WA, USA, 2019. *Oral Presentation*.
- Lawrence, J.D., Schmidt, B.E., Meister, M.R., Dichek, D.J.G., Ramey, C.D., Hurwitz, B., Spears, A.M., Mullen, A.D., Bryson, F.E., Buffo, J.J., Glass, J.B., Stockton, A.M., **Hobbs, T.E.** *Observations of Variable Basal Ice Morphology in Antarctica*. Ocean Worlds, Columbia, Maryland, 2019. LPI Contribution No. 2168, i.d. 6029. *Oral Presentation*.
- Newman, A.V., **Hobbs, T.E.**, Kyriakopoulos, C., Protti, M., Dixon, T., Schwartz, S.Y. *Translating megathrust behavior into the Nicoya Crust, revealing a dynamic dance across the seismic cycle*. Annual Meeting of the Seismological Society of America, Seattle, WA, USA, 2019. *Oral Presentation*.
- Schmidt, B.E., Lawrence, J., Meister, M., Dichek, D., Ramey, C., Spears, A., Mullen, A., Bryson, F., **Hobbs, T.E.** *In Situ Observations of the Erebus Glacier Tongue Grounding Zone by the Icefin HROV*. European Geophysical Union General Assembly, Vienna, Austria, 2019. *Oral Presentation*.
- **Hobbs, T.E.**, Yao, D., Newman, A.V., Peng, Z., Protti, M. *Investigating Apparent Anticorrelation of Repeating Aftershocks and Afterslip in Nicoya, Costa Rica*. American Geophysical Union Fall Meeting, Washington, DC, USA, 2018. ID: T52B-03. *Oral Presentation*.
- **Hobbs, T.E.**, Newman, A.V., Protti, M. *Transient Forearc Sliver Transport Found During Postseismic Recovery.* Wegener 2018: 19th General Assembly of WEGENER, Grenoble, France, 2018. *Oral Presentation*.

Conference Proceedings Continued

Hobbs, T.E., Newman, A.V., Protti, M. *Episodic forearc sliver translation during relocking of the Nicoya, Costa Rica megathrust: an unexpected observation*. Joint Meeting of the Latin American and Caribbean Seismological Commission and the Seismological Society of America, Miami, FL, USA, 2018. *Invited Presentation*.

- **Hobbs, T.E.**, Newman, A.V., Protti, M. *Unexpected forearc sliver translation during relocking of the Nicoya, Costa Rica megathrust.* UNAVCO Science Workshop, Boulder, CO, USA, 2018. *Poster Presentation*.
- **Hobbs, T.E.**, Newman, A.V., Protti, M. *Accelerated sliver transport during transition from postseismic to interseismic conditions*. American Geophysical Union Fall Meeting, New Orleans, LA, USA, 2017. ID: G43A-0902. *Poster Presentation*.
- Voss, N.K., Liu, Z., **Hobbs, T.E.**, Schwartz, S.Y., Malservisi, R., Dixon, T., Protti, M. *Aseismic Slip Throughout the Earthquake Cycle in Nicoya Peninsula, Costa Rica*. American Geophysical Union Fall Meeting, New Orleans, LA, USA, 2017. ID: T13E-02. *Oral Presentation*.
- **Hobbs, T.E.**, Newman, A.V., and Peng, Z. Defining the Temporal Relationship Between Afterslip and Aftershocks Using Dense Seismic and Geodetic Networks in Nicoya, Costa Rica. Seismological Society of America Annual Meeting, Denver, CO, USA, 2017. Oral Presentation.
- **Hobbs, T.E.**, Kyriakopoulos, C., Newman, A.V., Yao, D., Dixon, T., Protti, M. *Recovering the Full Afterslip Following the 2012 Mw 7.6 Nicoya, Costa Rica Earthquake*. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2016. ID: 137120. *Oral Presentation*.
- Newman, A.V., Yao, D., Kyriakopoulos, C., Moore-Driskell, M.M., Hobbs, T.E., Peng, Z., Schwartz, S., Protti, M., Gonzalez, V.The Possible Decapitation of a Megathrust Indenter: Evidence from Imaging of Time-dependent Microseismic Structures before and after the 2012 Mw 7.6 Nicoya, Costa Rica. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2016. ID: 149139. Oral Presentation.
- Newman, A.V., **Hobbs, T.E.**, Kyriakopoulos, C., Dixon, T., Schwartz, S.Y., Protti, M. *Partitioning of the Total Slip Signal through the Seismic Cycle: Results from the Nicoya Seismic Cycle Observatory (NSCO)*. Subduction Zone Observatory Workshop, Boise, ID, USA, 2016. *Poster Presentation*.
- **Hobbs, T.E.**, Newman, A.V., Yao, D., Protti, M. *Continued Trenchward Procession of Upper Plate GPS Sites Following the 2012 Mw 7.6 Nicoya Earthquake*. General Assembly of the Latin American and Caribbean Seismological Commission, San Jose, Costa Rica, 2016. Paper Number 230. *Oral Presentation*.
- Walter, J.I., Kao, H., Meng, X., Peng, Z., **Hobbs, T.E.**, Dotray, P., Newman, A.V., Mulder, T. *Dynamic interactions between the October 28th 2012 Haida Gwaii and January 5th 2013 Craig earthquakes and other faults in Southeast Alaska*. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2015. Abstract ID: S13D–07.*Oral Presentation*.
- **Hobbs, T.E.**, Newman, A.V., Protti, M. *Continued Trenchward Procession of Upper Plate GPS Sites Following the 2012 Mw 7.6 Nicoya Earthquake*. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2015. Abstract ID: T43C–3017. *Poster Presentation*.
- Newman, A.V., Kyriakopoulos, C., Feng, L., **Hobbs, T.E.**, Dixon, T.H., Malservisi, R., Protti, J.M. *The Continuum of Slip along the Subduction Megathrust: Observations and Understanding Gained from the Nicoya Seismic Cycle Observatory*. Seismological Society of America Annual Meeting, Pasadena, CA, USA, 2015. *Invited*.
- **Hobbs, T.E.**, Cassidy, J.C., and Dosso, S.E. *Possible Interactions between the 2012 Mw 7.8 Haida Gwaii Subduction Earthquake and the Transform Queen Charlotte Fault*. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2014. Abstract ID: S23A–4483. *Poster Presentation*.
- **Hobbs, T.E.,** Cassidy, J.C., and Dosso, S.E. Rupture Properties of the Mw 7.7 2012 Haida Gwaii Earthquake from an Empirical Green's Function Method. Seismological Society of America Annual Meeting, Anchorage, AK, USA, 2014. Abstract ID: 14–003. Oral Presentation.
- **Hobbs, T.E.**, Cassidy, J.C., and Dosso, S.E. *Coulomb Stress Changes Resulting from the Mw 7.7 2012 Haida Gwaii Earthquake*. Seismological Society of America Annual Meeting, Anchorage, AK, USA, 2014. Abstract ID: 14–002. *Poster Presentation*.

Conference Proceedings Continued

Hobbs, T.E., Brillon, C., Cassidy, J.C., Dosso, S.E., and Dragert, H. *Coulomb Stress Changes Following the Mw* 7.7 2012 Haida Gwaii Earthquake. Canadian Geophysical Union Annual Meeting, Saskatoon, SK, Canada, 2013. Abstract ID: 3D4.3--6606. *Oral Presentation*.

Hobbs, T.E., and Darbyshire, F.A. *SkS Splitting Measurement of Seismic Anisotropy in Southern & Central Quebec*. Canadian Geophysical Union Annual Meeting, Banff, AB, Canada, 2012. *Poster Presentation*.

Darbyshire, F.A., and **Hobbs, T.E.** Crustal Thickness Variations Across Central and Southern Québec From Receiver Function Analysis. Canadian Geophysical Union Annual Meeting, Banff, AB, Canada, 2011. Poster Presentation.

Hobbs, T.E., and Darbyshire, F.A. *Crustal Thickness Variations Across Eastern Canada and Maine From Receiver Function Analysis*. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 2010. Abstract ID: T33D-2285. *Poster Presentation*.

Invited Speaking Engagements

Hobbs, T.E. and Bevington, A. Panelist for the University of Northern British Columbia, Course GEOG 212, Prince George, BC, Canada, 2021.

Hobbs, T.E., Journeay, M., van Ulden, J., Rotheram, D., Chow, W., Herring, J., Pagani, M., Johnson, K., Rao, A. *Canada's National Seismic Risk Model*. Keynote Speaker for the Graduate Student Symposium for Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA, USA, 2021.

Hobbs, T.E., Journeay, M., van Ulden, J., Rotheram, D., Chow, W., Herring, J., Pagani, M., Johnson, K., Rao, A. *Earthquake Scenarios*. Presentation to Vancouver Emergency Community Telecommunications Organization (VECTOR), Vancouver, BC, Canada, 2021.

Hobbs, T.E., Journeay, M., van Ulden, J., Rotheram, D., Chow, W., Herring, J., Pagani, M., Johnson, K., Rao, A. *Earthquake Scenarios for Task Force 2*. Presentation to Canadian Task Force 2, Calgary, AB, Canada, 2021.

Hobbs, T.E. Canada's Seismic Risk Profile: A Path to Disaster Risk Reduction. Carl Heiland Lecture at the Colorado School of Mines, Golden, CO, USA, 2021.

Hobbs, T.E. *Communication and Effectiveness in Disaster Risk Reduction.* Lecture for the Colorado School of Mines, Engineering, Design & Society, Golden, CO, USA, 2021.

Hobbs, T.E., Campbell, A., Reyes, B., Nasseri, A., Gregory, D., Kolaj, M., Seyhan, E., *Canada's New Earthquake Science: Learning from Loss Models*. Panelist at Institute for Catastrophic Loss Reduction Workshop, 'Tail Risk' and 'Canada's 6th Generation Seismic Hazard Model' sessions, London, ON, Canada, 2020.

Hobbs, T.E., Journeay, J.M., Kolaj, M., Podlaha, A., and Trendafiloski, G. *New Perspectives on Earthquake Risk in Canada*. Panelist at CatlQ Connect session, moderated by John Schneider, Toronto, ON, Canada, 2020.

Hobbs, T.E., and Hilt, M.P. *Regional Seismic Risk Modelling and its Impact on Policy Development*. Lecture for the University of British Columbia, Course CIVL 506, Vancouver, BC, Canada, 2020.

Hobbs, T.E. *Earthquake Scenarios for Community Resilience*. Presentation to the Board of the Mid Island Emergency Coordinators and Managers, Qualicum Beach, BC, Canada, 2020.

Hobbs, T.E. *Earthquake Scenarios for Community Resilience*. Presentation to the Strathcona Emergency Program Committee, Campbell River, BC, Canada, 2020.

Hobbs, T.E., Journeay, J.M., Bird, A.L., Cassidy, J.F. *Seismic Scenarios in British Columbia*. Presentation to the British Columbia Seismic Safety Commission, Victoria, BC, Canada, 2020.

Hobbs, T.E., Journeay, J.M. *Implementing Updated Fragility & Vulnerability Functions in Scenario Earthquakes*. Presentation to City of Vancouver Seismic Engineering Review Committee, Vancouver, BC, Canada, 2020.

Hobbs, TE. Using Dense Seismic and Geodetic Networks to Examine [Unexpected] Postseismic Behaviour of the Nicoya, Costa Rica Megathrust. Tectonics Seminar Series at the Pacific Geoscience Centre, Sidney, BC, Canada, 2020.

Invited Speaking Engagements Continued

Hobbs, **T.E.**, Journeay, J.M. An Earthquake Risk Profile of Canada; Knowledge to Inform Disaster Resilience Planning. Seminar presentation for the Canadian Hazards Information Service, Ottawa, ON, Canada, 2020.

Hobbs, T.E., Journeay, J.M., Cassidy, J.C. *Earthquakes in British Columbia: Preparing for the 'Big One' and the 'Other Ones'*. Presentation to the Metro Vancouver Regional District & Regional Engineers Advisory Committee Utility Tabletop Exercise, Burnaby, BC, Canada, 2019.

Hobbs, T.E., Journeay, J.M. *An Earthquake Risk Profile of Canada: Knowledge to Inform Disaster Resilience Planning.* Presentation to the Director General Interdepartmental Table on Earthquake Risk, Government of Canada, Ottawa, ON, Canada, 2019.

Hobbs, T.E., Journeay, J.M. *Eastern Canada Earthquake Scenarios*. Workshop presentation for 'Earthquake Risk Modeling in Canada: From Knowledge to Action', London, ON, Canada, 2019.

Hobbs, **T.E.** *Seismicity in British Columbia*. Presentation to the Union of British Columbia Municipalities Convention, Vancouver, BC, Canada, 2019.

Science News Publications

Hobbs, T.E. (2020), Dual disaster planning, communication and reason for hope: a discussion with professor Sam Montano, Temblor, http://doi.org/10.32858/temblor.086

Hobbs, T.E., Shinji, T. (2020), *Significant Idaho earthquake unlikely to cause unrest in Yellowstone*, Temblor, http://doi.org/10.32858/temblor.081

Hobbs, T.E. (2020), *Earthquake strikes Utah amid COVID-19 pandemic*, Temblor, http://doi.org/10.32858/temblor.078

Hobbs, T.E. (2020), *Shaking on Mars Creating Good Vibrations On Earth*, Temblor, http://doi.org/10.32858/temblor.075

Eyidoğan, H., **Hobbs, T.E.** (2020), *Recovery Underway Following Damaging 24 January 2020 Elazığ Earthquake in Eastern Turkey*, Temblor, http://doi.org/10.32858/temblor.070

Hobbs, T.E. (2020), *More unrest in the Caribbean as Jamaica is struck by a magnitude 7.7 earthquake*, Temblor, http://doi.org/10.32858/temblor.069

Hobbs, T.E. (2019), Can science tell when a large earthquake will be followed by an even larger one?, Temblor, http://doi.org/10.32858/temblor.056

Hobbs, T.E. (2019), Over 66 million people participate in international ShakeOut; prompts evaluation of personal preparedness, Temblor, http://doi.org/10.32858/temblor.052

Hobbs, T.E. (2019), *Indonesian "Black Swan" quake: a painful reminder of last year's M 7.5 Palu shock*, Temblor, http://doi.org/10.32858/temblor.044

Hobbs, T.E. (2019), August 1, 2019, magnitude-6.8 Chile earthquake reveals stress is building on the megathrust, Temblor, http://doi.org/10.32858/temblor.042

Hobbs, T.E. (2019), *How Apollo 11's moonquakes changed our understanding of earthquakes*, Temblor, http://doi.org/10.32858/temblor.041

Stein, R.S., Rollins, C., Sevilgen, V. **Hobbs, T.E.** (2019), *M 7.1 SoCal earthquake triggers aftershocks up to 100 mi away: What's next?*, Temblor, http://doi.org/10.32858/temblor.038

Stein, R.S., **Hobbs, T.E.**, Rollins, C., Ely, G., Sevilgen, V., Toda, S. (2019), *Magnitude 7.1 earthquake rips northwest from the M6.4 just 34 hours later*, Temblor, http://doi.org/10.32858/temblor.037

Hobbs, T.E., Rollins, C. (2019), *Earthquake Just North of Cascadia is Felt Along Canada's West Coast*, Temblor, http://doi.org/10.32858/temblor.036

Hobbs, T.E., Rollins, C. (2019), *Earthquake early warning system challenged by the largest SoCal shock in 20 years*, Temblor, http://doi.org/10.32858/temblor.035

Science News Publications Continued

Hobbs, T.E. (2019), The first Marsquake is recorded, Temblor, http://doi.org/10.32858/temblor.031

Hobbs, T.E., Stein, R.S. (2019), *El Salvador Earthquake: A Moderate Event in An Area of Extreme Seismic Risk*, Temblor, http://doi.org/10.32858/temblor.025

Hobbs, T.E. (2019), *Deep earthquake in Peru is felt along the length of South America*, Temblor, http://doi.org/10.32858/temblor.024

Hobbs, T.E. (2019), Large Earthquake in Papua New Guinea re-ruptures major fault in just 19 years: More to follow?, Temblor, http://doi.org/10.32858/temblor.022

Hobbs, T.E. (2018 – present) T. Hobbs Field Research Blog Retrieved from https://thobbsfield.wordpress.com

Hobbs, T.E. (2018, October-December) *Planetary Habitability & Technology Blog* Retrieved from https://nobusinesslikesnowbusiness.wordpress.com

Hobbs, T.E. (2018, July 11-25) *Alaska Amphibious Community Seismic Experiment Blog* Retrieved from https://alaskaamphibious.wordpress.com/2018/07/11/; https://alaskaamphibious.wordpress.com/2018/07/18/

Hobbs, T.E., Toda, S. (2018), *Did Tuesday's M 7.9 Kodiak earthquake nudge the Alaskan Megathrust closer to failure?*, Temblor, http://doi.org/10.32858/temblor.005

Hobbs, T.E. (2018, January 23) *M 7.9 Alaska earthquake strikes off the coast of Kodiak Island, triggering a tsunami and questions*. Retrieved from http://temblor.net/earthquake-insights/m7-9-alaska-earthquake-strikes-off-the-coast-of-kodiak-island-triggering-a-tsunami-and-questions-6143/

Techniques

GPS & seismic fieldwork Risk Modelling (OpenQuake) Coulomb stress analysis

Geodetic inversion Slope Stability Analysis Instrument design
GIS Software Tableau Data Visualization InSAR processing
SkS splitting Receiver function stacking Waveform Matching

Training

Short Course Remotely-Piloted Aircraft System Ground School (Coastal Drone Co.), 2021

Online Course Indigenous Canada (University of Alberta), 2021

Short Course Bear Aware (St. John's Ambulance), 2021

Short Course Avalanche Safety Training (AST) Level 1 (Canada West Mountain School), 2019

Short Course 5-day Mountaineering Course (Northwest Mountain School), 2019

Short Course Wilderness First Aid (Coast Wilderness Medical Training), 2019

College Course Introduction to GIS (Fanshawe College), 2019

Short Course Advanced Webinar: SAR for Disasters and Hydrological Applications (NASA), 2019

Apply-to-Sail Participant Alaska Amphibious Community Seismic Experiment (GeoPRISMS), 2018

Short Course Aftershock Forecasting (SSA), 2018

Short Course Probabilistic Seismic Hazard Analysis with Slab 2.0 (SSA), 2018

Short Course Communicating Science for Impact (UNAVCO), 2018

Short Course Gipsy-X User Training (JPL), 2017

Short Course Probabilistic Seismic Hazard Analysis (SSA), 2017

Short Course Advanced INSAR Processing (UNAVCO), 2015

Awards & Funding

NSERC Alliance: Pacific Alliance

Federal Partner

PI: Michael Bostock

pending

NSERC Alliance: Quantifying the Seismic Resilience of the Transportation Network in the Lower Main-

land, BC

Federal Partner

PI: Carlos Molina-Hutt

pending

NSERC CREATE: EArthquake Research Training for Hazards response (EARTH-CREATE)

Non-academic Partner

PI: Christie Rowe

pending

NSERC Discovery Grant: Identifying Potentially Active Faults in Mainland British Columbia Using Available Datasets

Principal Investigator

2022 - 2027

NSERC CREATE: Pacific Rim Ocean Data Mobilization and Technology (PRODIGY)

Non-academic Partner

PI: Philippe Tortell

2021 - 2027

Award for Outstanding Service

Georgia Institute of Technology, School of Earth and Atmospheric Sciences

2019

Student Presentation Award

Seismological Society of America

2018

NSERC Post-Graduate Doctoral Fellowship

Natural Sciences and Engineering Research Council of Canada

2016 - 2018

Kurt Frankel Award for Excellence in Field Work

Georgia Institute of Technology, School of Earth and Atmospheric Sciences

2017

Student Travel Award

Seismological Society of America

2017

Invitation for Dean's Lecture Series

University of Victoria, Faculty of Graduate Studies

2014

Fellowship for Graduate Students

University of Victoria, Faculty of Science

2012, 2013

Student Travel Award

Canadian Geophysical Union

2012, 2013

Introduction to Research Scholarship

GEOTOP, Montréal, Quebec

2012

Awards & Funding Continued

Logan Award

McGill University, Faculty of Science 2011

Frederick M. Connell Award

McGill University, Faculty of Science 2011

Graham Scholarship in Science

McGill University, Faculty of Science 2011

Service

Co-Chair, Hazards Equity Working Group

American Geophysical Union Natural Hazards Section

2020-present

Scientist, Skype A Scientist Program

https://www.skypeascientist.com/

2018 - present

Expert Reviewer, Seismic Retrofit Guidelines

Engineers and Geoscientists British Columbia

2020

Coordinator, Georgia Tech Science Showcase Series

Ponce City Farmers Market, Atlanta, GA

2018

Science Coordinator, Graduate Student Symposium

Georgia Institute of Technology, School of Earth and Atmospheric Sciences 2017

Member, Society of Exploration Geophysicists

Georgia Institute of Technology Chapter

2015 - 2018

First Year Mentoring Chair, Graduates in Earth and Atmospheric Sciences Council

Georgia Institute of Technology

2015 - 2017

Vice President, Graduates in Earth and Atmospheric Sciences Council

Georgia Institute of Technology

2014 - 2016

Volunteer, 'Let's Talk Science' National Outreach Program

Univeristy of Victoria

2013 - 2014

Vice President External, Monteregian Society

Department of Earth and Planetary Science's Undergraduate Student Council

McGill University

2010 - 2011

President, Environmental Residence Council

Vice President of Environment, University Residence Council

McGill University

2008 - 2009

Teaching Assistant Experience

EOS 120: Dynamic Earth

School of Earth & Ocean Sciences University of Victoria, Victoria, BC, Canada

EOS 170: Natural Hazards

School of Earth & Ocean Sciences University of Victoria, Victoria, BC, Canada

EOS 201: Sedimentary Geology

School of Earth & Ocean Sciences

University of Victoria, Victoria, BC, Canada

EAS 2600: Earth Processes

Earth & Atmospheric Sciences Department Georgia Institute of Technology, Atlanta, GA, USA

Manuscript and Proposal Reviews

2021 - Natural Sciences and Engineering Research Council Alliance Proposal (#)

2021 - GEOLOGY (G48675)

2020 – Nature Communications (NCOMMS-20-45887-T)

2020 - National Science Foundation Collaborative Research Proposal (#2025104)

2019 – Journal of South American Earth Sciences (SAMES_2019_275)

2018 – Nature Scientific Reports (SREP-18-23971-T)

2018 - Tectonics (2017TC004771RRRR)

Thesis Committees

2021 - Megan Caston (MSc), University of Victoria, BC, Canada

Professional Organizations

American Geophysical Union (AGU) Seismological Society of America (SSA) Latin American and Caribbean Seismological Coalition (LACSC)