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EDUCATION

PhD, Strategic Management and Organization, Alberta School of Business, 2014.
PEng, Association of Professional Engineers and Geoscientists of Alberta, since 1997.
MSc, Interdisciplinary Civil & Environmental Engineering and Sociology, 1996, University of Alberta.
BSc, Civil Engineering, Cooperative Program, 1994, University of Alberta.

Society is demanding ever more integrated and resilient management systems. Beyond technical design, as engineers, we also have a professional, ethical, and legal responsibility to ensure that the operations and maintenance of these systems includes risk management (broadly defined) that protects people and the environment. Since most losses have individual/organizational failures as the latent cause, if we focus exclusively on technical design, we miss preventing these losses. This motivates my research: *How can risk management systems be enhanced so organizations are better equipped to recognize, understand, and respond to unforeseen events and manage the risks?*

AFFILIATIONS AND EMPLOYMENT

University of Alberta, Faculty of Engineering

Risk, Innovation, and Sustainability Chair (RISC), David and Joan Lynch School of Engineering Safety and Risk Management, July 2022 –

Associate Professor, Department of Chemical and Materials, Faculty of Engineering, July 2021 –

Director (Outreach and Diversity), Department of Chemical and Materials, Faculty of Engineering, August 2019 –

Assistant Professor, Department of Chemical and Materials, Faculty of Engineering, May 2015 – June 2021

University of Michigan, Erb Institute for Global Sustainable Enterprise,

Erb Post-Doctoral Fellowship and concurrent Dow Sustainability Research Fellowship, Ross School of Business / School of Natural Resources and Environment, September 2013 – May 2015

APEGA - Association of Professional Engineers and Geoscientists of Alberta

Assistant Director Professional Practice, Regulatory Affairs. APEGA regulates 70,000+ individuals and 4000 companies practicing engineering and geoscience in Alberta. Managed Environment Committee, Continuing Professional Development, Practice Review Board, and Practice Standards Committee. Provided ethics advice, January 2003 – June 2007

Canadian National Railways

Worked in Engineering and Environmental Services (cleaned up contaminated and derailment sites, risk management for rockfalls and avalanches), Transportation Supervisor (supervised running trades, trained as locomotive engineer and conductor), Manager Network Operations (managed train operations), Market

Manager (coal, sulphur & fertilizers), Senior Manager Support Services (chief of staff for Sr. VP Operations), and Director Guaranteed Car Order Program (implemented system-wide railcar distribution system), May 1996 - January 2003

Zirkon Consulting

Consultant, environmental risk assessment / management consulting for the design of industrial facilities, January 1994 - July 1995

University of Alberta, Department of Civil and Environmental Engineering

Environmental Engineering Research Assistant, completed risk perception and environmental impact assessment/management research, May 1993 - September 1994

AWARDS, HONOURS, AND RECOGNITIONS

- 2021** A1. Best Symposium Award Runner-up, *Science denial: causes, courses, and remedies. A route map for organizational scholars*, 2021 Organizations and Management Theory Division, Academy of Management Meeting. PIs: Elena Bruni (WU Vienna, Wirtschaftsuniversität Wien, Vienna University of Economics and Business) & Lianne Lefsrud. Stanford University Press has given us a book deal for this.
- 2020** A2. One of four professors in the Faculty of Engineering mentioned as doing an exceptional job with remote delivery, from a survey of graduate students
- A3. Recipient of 2020 Canadian Dam Association Published Paper Award of Excellence (one of two granted) for Boswell, J., Rentz, A., Cavanagh, P., Staples, L., & Lefsrud, L.M. 2019. Preliminary Work by the Dam Integrity Advisory Committee Towards Thinking Clearly and Communicating Effectively About Risk. Proceedings of the Canadian Dam Association
- A4. Most cited paper for 2015-2019 in *Canadian Public Administration* for Gehman, Lefsrud & Fast (2017) Social License to Operate: Legitimacy by Another Name?
- A5. University representative, *Inclusive and Intersectional Research and Analysis in engineering and computer science*, \$1000 grant to attend workshop hosted by the Natural Sciences and Engineering Research Council of Canada (NSERC) and the National Science Foundation (NSF), February 6-7, Washington DC.
- 2019** A6. APEGA Summit Award winner, Women in Engineering and Geoscience Champion Award, for co-chairing Canadian Coalition of Women in Engineering Science, Trades and Technology (CCWESTT) 2019, Biennial Conference.
- 2018** A7. APEGA Volunteer Appreciation Award for five years of dedicated service.
- A8. Best Article by the Canadian Association for the Study of Discourse and Writing (CASDW) published in 2017 for Dirty Oil or Ethical Oil? Visual Rhetoric in Legitimation Struggles
- A9. University of Alberta Award for Outstanding Mentorship in Undergraduate Research & Creative Activities, Nominee
- A10. Visiting Scholar on Sustainability, Jerusalem School of Business Administration, Hebrew University of Jerusalem. \$10,000. Asper Foundation
- 2017** A11. Confederation of Alberta Faculty Associations (CAFA) Distinguished Academic Early Career Award, \$2000
- 2013-2019** A12. Most read paper, Organization Studies (FT45 journal), every month February 2013 – September 2019 (except in February 2015, #2 to a paper on Game Theory by Greece's finance minister)
- 2013 - 2015** A13. Best Paper Award, European Group of Organizational Studies, 2000 €
- A14. Best Practice Paper 2013, Academy of Management ONE Division & Network for Business Sustainability (NBS), finalist
- A15. TEDx speaker, https://www.youtube.com/watch?v=t5LZ9MNC_Ts

- 2012** A16. Best International Paper, Organization and Management Theory (OMT) Division, Academy of Management, finalist
- A17. Dissertation Award, Kule Institute for Advanced Studies (KIAS), \$7,000
- 2011** A18. Best Reviewer, Social Issues in Management (SIM) Division, Academy of Management
- 2011-** A19. Izaak Walton Killam Scholarship, Killam Trust, National level scholarship, \$54,000
- 2009** A20. Social Sciences and Humanities Research Council of Canada (SSHRC) Doctoral Fellowship, \$40,000
- A21. President's Doctoral Prize of Distinction, University of Alberta, \$20,000
- 2010** A22. Research Grant, Energy and Environment Solutions, Alberta Innovates, \$46,000
- 2009** A23. Doctoral Exchange Program Fellowship, \$25,000
- A24. Persons Case Scholarship, Province of Alberta, \$5,000
- 2008** A25. Engineers Canada TD Insurance Meloche Monnex National Scholarship, \$7,500
- A26. Dr. Alice E. Wilson Award, Canadian Federation of University Women, \$6,000
- A27. Provost Doctoral Awards, University of Alberta, \$4,400
- A28. Queen Elizabeth II Scholarship (Doctoral), Province of Alberta, \$15,000

RESEARCH GRANTS

- 2022** RG1. New Frontiers in Research Fund - Exploration: *The longevity of innovations: A multidisciplinary tool to evaluate the ecology of change*, 2022-2024, \$250,000. PIs: Deena Hamza, Betty Onyura, Ahmed Hammad, Lianne Lefsrud, Anna Oswald, Neil Price, David Stanley, Jaime Rangel, Jessica Vandenberghe
- RG2. Nominee for Alexander von Humboldt Fellowship, *Networks of Power: Examining the discourse, networks, and resources that catalyze climate change and energy transformation policies*, with Hamburg University. This world class institute coordinates the German Cluster of Excellence Climate, Climatic Change, and Society (CLICCS) with the Max Planck Institute for Meteorology (MPI-M), Helmholtz Center Geesthacht, and German Climate Computing Center to create the largest climate research cluster in Germany. The fellowship is €2,670 per month * 6 months = \$21,720
- 2021** RG3. SSHRC Insight Development Grant, *Saving Lives: The development and evaluation of a universal information design response for opioid poisonings*, 2021-2023, \$69,746. PIs: Gillian Harvey (Art and Design), Lianne Lefsrud, Stephanie Vandenberg (Medicine), Kate Sellen (Health Design), Susann Sommerfeldt (Nursing), Mary Forhan (Rehab/OT), Elaine Hyshka (School of Public Health), Marta-Marika Urbanik (Sociology), Daniel Laforest (Modern Languages & Cultural Studies)
- RG4. NSERC Alliance Grant, *Enhancing safety management systems practices on construction projects: A proactive data-driven approach for project safety planning and control*, 2021-2025, \$749,000. PIs: Lianne Lefsrud & Yasser Mohamed
- RG5. AI4Society and Energy System Seed Grant, *Pulse Check for Canada's Energy Conversations*, \$10,000. PI: Lianne Lefsrud, Joel Gehman, Eleni Stroulia, Denilson Barbosa, Jean-Christophe Boucher, Jennifer Winter
- RG6. AI4Society Grant, *The Improbable Persistence of low probability events in the energy industry*, \$10,000. PI: Lianne Lefsrud
- RG7. Transport Canada, *Application of Artificial Intelligence techniques to identify and quantify key leading indicators*, 2021-2024, \$150,000. PIs: Renato Macciotta, Lianne Lefsrud, Fereshteh Sattari.
- 2020** RG8. NSERC Alliance Grant, *Towards Future Interconnected Electric System*, 2020-2025, \$4,230,090. PIs: Petr Musilek, Lori Thorlakson, Greg Kish, Qing Zhao, John Salmon, Ali Khajehoddin, Yunwei (Ryan) Li, Hamidreza Zareipour, Andy Knight, Omid Ardakanian, Wilsun Xu, Hao Liang, Lianne Lefsrud, Marek Reformat, Yindi Jing, Tim Weis

- RG9. SSHRC Partnership Development Grant and Impact Assessment Agency of Canada, 2020-2023, \$652,000, *Advancing Impact Assessment for Canada's Socio-Ecological Systems*, PIs: Debra Davidson, Ian Stewart, Amber Fletcher, Gerald Singh, Lianne Lefsrud, Kevin Jones, Brenda Parlee, Kelly Bronson, Gwendolyn Blue
- RG10. Enablon, *Applying AI / Machine learning to data cleaning, categorization, prediction, and system integration*, datasharing agreement. PI: Lianne Lefsrud
- RG11. Canadian Energy and Climate Nexus & Mitacs, *A Toolkit for Analyzing Online Conversations for Solutions Based Policy Development*, \$125,000. PIs: Lianne Lefsrud, Eleni Stroulia, Denilson Barbosa & Joel Gehman
- RG12. Natural Resources Canada, Office of Energy Research and Developing ERD, *Performance study of the Oil and Gas Clean Tech Program to enhance corporate reporting and accountability requirements*, \$40,000. PI: Lianne Lefsrud
- 2019** RG13. KIAS Grant, *Information Design to Save Lives Co Design for Complex Health Communication (Naloxone Kit Information Re-Design)*, \$7500. PIs: Gillian Harvey (Art and Design), Lianne Lefsrud, Susann Sommerfeldt (Nursing), Mary Forhan (Rehab/OT), Elaine Hyshka (School of Public Health), Aiden Rowe (Art and Design)
- RG14. Transport Canada research grant, *Risk Tolerance Strategy for Rail Transport of Dangerous Goods*, \$150,000. PIs: Renato Macciotta & Lianne Lefsrud
- RG15. KIAS Cluster Grant, *New Approaches to Communities, Communication and Consultation through the Lens of Geothermal Energy Development on the Traditional Lands of the Alexis Nakota Sioux Nation*, \$35,000. PIs: Lianne Lefsrud & Andie Palmer
- RG16. Blended Learning Grant from Faculty of Engineering for Centre for Teaching and Learning, \$15,000
- 2018** RG17. Alberta Innovates Research Grant, *Geothermal Power from co-produced fluids and hydrocarbon reservoirs throughout the Western Canadian Sedimentary Basin*, \$950,000. PI: Jonathan Banks, Collaborator: Lianne Lefsrud
- RG18. NSERC Connect Grant, *Tailings Safety Symposium*, \$7500, PI: Lianne Lefsrud.
- RG19. NSERC Discovery Grant, *Developing Safety Management System Models*, \$142,500. PI: Lianne Lefsrud
- RG20. SSHRC Partnership Development Grant, *Enhancing Regulatory Effectiveness and Corporate Performance*, \$135,708. PIs: Lianne Lefsrud, Heather Eckert and Joel Gehman. VP Research, University of Alberta and Faculty of Engineering \$37,500
- RG21. Kule Institute of Advanced Studies (KIAS), cluster grant *Advancing Environmental Impact Assessment for Canada's Socio-Ecological Systems*, \$70,000. PIs: Debra Davidson & Ian Stewart. Collaborators: Brenda Parlee, Kevin Jones, Lianne Lefsrud
- 2017** RG22. MITACS, IBM Canada, Cerebri AI, Canada's Oil Sands Innovation Alliance (COSIA), *Multi-Perspective Text Analysis of Social Knowledge Networks*. \$195,119. PIs: Kelly Lyons, Eleni Stroulia, Lianne Lefsrud
- RG23. Alberta OHS Futures Research Funding Program, *Improving OHS Performance with OHS and Environmental Creative Sentencing Spillovers*. \$37,700. PIs: Heather Eckert & Lianne Lefsrud
- RG24. Railway Association of Canada, *Role of Safety Management Systems (SMS) in the railway industry and potential for enhancement of the Railway Safety Act (RSA)*, \$16,800. PI: Lianne Lefsrud, co-PI: Renato Macciotta Pulisci
- RG25. Construction Owners Association of Alberta and Mitacs, *Creating a Positive Safety Culture and Continuous Improvement in Alberta's Construction Industry*, research grant, \$15,000. PI: Lianne Lefsrud
- RG26. Creative sentencing research grant, *Protecting Worker Safety in Alberta by Enhancing Field Level Hazard Assessments and Training for Ground Hazards Associated with Tailings Facilities, Dams, and Systems*, 2017-2019, \$285,000. PIs: Lianne Lefsrud & Michael Hendry

- RG27. *Future Energy Systems*, Geothermal (\$277,000) and Community and Aboriginal (\$375,000) themes
- RG28. Undergraduate Research Initiative stipend: *Workplace Culture: Diversity in Engineering*. \$5000
- 2016** RG29. Seeding Food Innovation 2016 program, Weston Foods, *Social dimensions of climate change mitigation in Alberta agriculture*, \$140,801. PIs: Debra Davidson, Andreas Hamann & Lianne Lefsrud
- RG30. Genome Canada, Large-Scale Applied Research Project Competition, Natural Resources and the Environment: Sector Challenges, *Managing Microbial Corrosion in Canadian Offshore & Onshore Oil Production Operations*, \$7,850,739. PIs: Lisa Gieg, Faisal Khan, John Wolodko. Collaborator: Lianne Lefsrud (\$140,000)
- RG31. Data Grant, Alberta Workers Compensation Board, *Assessing Partners' OHS Tools for Improving Alberta Workplace Safety*. PIs: Lianne Lefsrud & Joel Gehman
- RG32. Centre for Teaching and Learning (CTL) Blended Learning Award - ENGG404: *Engineering Safety and Risk Management – Leadership in Risk Management*, \$22,000. PIs: John Cocchio and Lianne Lefsrud
- RG33. Centre for Teaching and Learning (CTL) Summer Student Employment Award, \$7,000, PIs: Lianne Lefsrud and John Cocchio
- 2015** RG34. Research Grant, *Creating a Basis for Genuine Dialogue: Developing a Science-Based Understanding of Public/Industry Communication*, Alberta Chamber of Resources, \$35,000. PIs: Lianne Lefsrud and Chris Westbury.
- RG35. NSERC Engage Grant, *Using first- and second-order lexical co-occurrence to assess temporal changes in media valence and content*, \$25,000. PI: Chris Westbury, collaborator: Lianne Lefsrud
- 2013 -** RG36. Dow Sustainability Research Fellowship and Erb Research Fellowship, \$175,000
- RG37. SSHRC Partnership Development Grant, *Engendering Engineering Success*, \$194,000, PI: Elizabeth Croft, co-PIs: Toni Schmader and Michelle Inness, collaborator: Lianne Lefsrud

RESEARCH PUBLICATIONS

Given my interdisciplinary research, I work with scholars in engineering, computer science, geoscience, cognitive psychology, medicine, design, business, economics, anthropology, and environmental sociology. For all publications, the order of authors is determined by the scientific contribution of the researcher, with the primary author listed first. I strive to communicate my research in high-impact interdisciplinary journals, practitioner-focused journals (i.e., *Corrosion*, *Transportation Research Record*) and in public presentations, interviews, social media, and policy and industry reports to reach the broadest possible academic and practitioner audiences. * *Denotes student or Post-Doctoral Fellow*

Journal Articles - Refereed

- JA1. Schiffner, D.*, Banks, J., Rabbani, A.*, **Lefsrud, L.M.**, & Adamowicz, V. Techno-economic assessment for heating cattle feed water with low-temperature geothermal energy: a case study from central Alberta, Canada. Forthcoming *Renewable Energy*. Impact factor = 8.001.
- JA2. Esmaeeli, N.*, Sattari, F.*, **Lefsrud, L.**, & Macciotta, R. (2022). Critical analysis of train derailments in Canada through process safety techniques and insights into enhanced safety management systems. *Transportation Research Record*, 2676(4), 603-625. Impact factor = 1.56.
- JA3. Naef, M.*, Chadra, K.*, **Lefsrud, L.M.** 2022. Decision support for process operators: task loading in the days of big data. *Journal of Loss Prevention in the Process Industries*, forthcoming. <https://doi.org/10.1016/j.jlp.2021.104713>. Impact factor = 4.02.

- JA4. Nadkarni, K.*, **Lefsrud, L.M.**, Schiffner, DD.*, & Banks, J. 2022. Roadmaps and Roadblocks for Energy Transformation: Converting Oil and Gas Wells to Geothermal Resources. *Energy Policy*, forthcoming. <https://doi.org/10.1016/j.enpol.2021.112705> . Impact factor = 6.142.
- JA5. Harvey, G., Hyschka, E., **Lefsrud, L.M.**, Forham, M., Rowe, A., Colberg, S. 2022. Communication Design and its Role in Public Health. 2021. *Perspectives in Public Health*, forthcoming. <https://www.journalofhealthdesign.com/JHD/article/view/135> . Impact factor = 3.033.
- JA6. **Lefsrud, L.M.**, McLarnon, M.J.W. & Gellatly, I.R. 2022. A Pattern-Oriented Approach to Safety Climate: An Empirical Example. *Safety Science*, forthcoming. <https://doi.org/10.1016/j.ssci.2021.105385>. Impact Factor = 4.877.
- JA7. Goings, F., Wilson N.L.*, Equiza A., **Lefsrud L.M.**, & Willis, L.M. 2021. Margaret Ann Armour & WISEST – An Incredible Legacy in Equity, Diversity, and Inclusion in STEM and the Work Still to Do. *Canadian Journal of Chemistry*, forthcoming. <https://doi.org/10.1139/cjc-2020-0328>. Impact Factor = 1.171.
 ✓ Editors' Choice in the Special Issue.
- JA8. Sattari, F.*, **Lefsrud, L.M.**, Kurian, D.*, Macciotta, R. 2021. A Theoretical Framework for Data-driven Artificial Intelligence Decision Making for Enhancing the Asset Integrity Management System in the Oil & Gas Sector. *Journal of Loss Prevention in the Process Industries*, forthcoming. <https://doi.org/10.1016/j.jlp.2021.104648> Impact factor = 4.02.
- JA9. Ebrahimi, H.*, Sattari, F.*, **Lefsrud, L.M.**, & Macciotta, R. 2021. Analysis of train derailments and collisions to identify leading causes of loss incidents in rail transport of dangerous goods in Canada. *Journal of Loss Prevention in the Process Industries*, forthcoming. <https://doi.org/10.1016/j.jlp.2021.104517> Impact factor = 4.02, 1 citation on google scholar.
- JA10. Emerson, C.J, **Lefsrud, L.M.**, Robinson, J., & Hollett, S. 2021. WinSETT - Creating a Centre for Equity, Diversity, and Inclusion. *Canadian Journal of Chemistry*, forthcoming. <https://cdnsiencepub.com/doi/pdf/10.1139/cjc-2020-0327>. Impact Factor = 1.171.
- JA11. Oberg, A., **Lefsrud, L.M.**, & Meyer, R.A. 2021. Organizational (Issue) Field Perspective on Climate Change. *Economic Sociology: The European Electronic Newsletter*, forthcoming. https://econsoc.mpifg.de/43861/05_Oberg_Lefsrud_Meyer_Econsoc-NL_22-3_July2021.pdf
- JA12. Fox, K. & **Lefsrud, L.M.** 2021. The ecology of regulatory change: The Security and Exchange Commission's modernization of oil and gas reserves reporting. *Resources Policy*, forthcoming. <https://doi.org/10.1016/j.resourpol.2021.102072>. Impact factor = 5.634.
- JA13. Khan, A.*, Sattari, F.*, **Lefsrud, L.M.**, & Tufail, M. 2021. Enhancing regional process safety management. *Journal of Loss Prevention in the Process Industries*, forthcoming. <https://doi.org/10.1016/j.jlp.2021.104444>. Impact factor = 4.02.
- JA14. Jamieson, M., **Lefsrud, L.M.**, Sattari, F.*, and Donald, J.R. 2021. Sustainable Leadership and Management of Complex Engineering Systems: A Team Based Structured Case Study Approach. *Education for Chemical Engineers*, 32: 37-46. <https://doi.org/10.1016/j.ece.2020.11.008>. Impact factor = 2.524.
- JA15. Ni, Y.*, Sattari, F.*, **Lefsrud, L.M.**, & Tufail, M. 2020. A rising tide raises all boats: Regional promotion of process safety through joint government/ industry management. *Journal of Loss Prevention in the Process Industries*, Volume 68, November 2020, 104331. <https://doi.org/10.1016/j.jlp.2020.104331> Impact factor = 4.02.
- JA16. Watson, E.*, Marin, L.F.*, White, L, Macciotta, R. & **Lefsrud, L.M.** 2020. Blended Learning in an Upper Year Engineering Course: The Impact of Students' Maturity on Online Engagement. *Canadian Journal for the Scholarship of Teaching and Learning (CJSOTL)*, 11(3), n3. <https://doi.org/10.5206/cjsotl-rcacea.2020.3.8270>. Impact Factor = 0.585, 2 citations on google scholar.

- JA17. Sattari, F.*, Macciotta, R., Kurian, D.*, & **Lefsrud, L.M.** 2020. Application of Bayesian Network and Artificial Intelligence in Reducing Accident/Incident Rates in Oil & Gas Companies. *Safety Science*, 133, 104981. <https://doi.org/10.1016/j.ssci.2020.104981> Impact Factor = 4.877, 4 citations on google scholar.
- JA18. Sattari, F.*, **Lefsrud, L.M.**, & Macciotta, R. 2020. A Process Safety Approach to Identify Opportunities for Enhancing Rail Transport Safety in Canada. *Transportation Research Record* 2675 (1), 49-66. <https://doi.org/10.1177/0361198120957008> . Impact Factor = 1.56, 2 citations on google scholar.
- JA19. Kurian, D.*, Sattari, F.*, **Lefsrud, L.M.**, & Ma, Y. 2020. Using Machine Learning and Keyword Analysis to Analyze Incidents and Reduce Risk in Oil Sands Operations. *Safety Science* 130: 104873. <https://doi.org/10.1016/j.ssci.2020.104873> Impact Factor = 4.877, 8 citations on google scholar.
- JA20. Kurian, D.*, Ma, Y., **Lefsrud, L.M.**, & Sattari, F.* 2020. Seeing the forest and the trees: Using machine learning to categorize and analyze incident reports for Alberta oil sands operators. *Journal of Loss Prevention in the Process Industries*, 64: 104069. <https://www.sciencedirect.com/science/article/abs/pii/S0950423019309921> Impact Factor = 4.02, 8 citations on google scholar.
- JA21. Baker, K.E.*, Macciotta, R., Hendry, M.T. & **Lefsrud, L.M.** 2020. Combining safety approaches to bring hazards into focus: An oil sands tailings case study. *Canadian Journal of Chemical Engineering*, doi:10.1002/cjce.23813. <https://onlinelibrary.wiley.com/doi/epdf/10.1002/cjce.23813> . Impact factor = 2.007, 2 citations on google scholar.
- JA22. Baker, K.E.*, Macciotta, R., Hendry, M.T. & **Lefsrud, L.M.** 2020. Risk communication in Athabasca oil sands tailings operations. *Safety in Extreme Environments*, (2020) 2: 127-139. <http://link.springer.com/article/10.1007/s42797-019-00009-2>. 3 citations on google scholar.
- JA23. **Lefsrud L.M.**, Macciotta, R., and Nkoro, A.* 2020 Performance-based regulations for safety management systems in the Canadian railway industry: an analytical discussion. *Canadian Journal of Civil Engineering*, 47 (3), 248-256. <https://tspace.library.utoronto.ca/bitstream/1807/99162/1/cjce-2018-0513.pdf>. Impact factor = 0.985, 2 citations on google scholar.
- JA24. **Lefsrud, L.M.**, Graves, H. & Phillips, N. 2020. Giant toxic lakes you can see from space: A theory of multimodal messages and emotionality in legitimacy work. *Organization Studies*, 0170840619835575. <https://journals.sagepub.com/doi/abs/10.1177/0170840619835575>. Impact Factor = 6.306, 18 citations on google scholar.
- JA25. **Lefsrud, L.M.** 2019. Book Review: Hans Rosling, Ola Rosling, and Anna Rosling Rönnlund Factfulness: Ten Reasons We're Wrong About the World—and Why Things Are Better Than You Think. *Organization Studies*, 40(7): 1093-1096 <https://doi.org/10.1177/0170840618813918> Impact Factor = 6.306, 10 citations on google scholar.
- JA26. Davidson, D., Rollins, C.*, **Lefsrud, L.M.**, Anders, S. & Hamman, A. 2019. Just don't call it climate change: Climate-skeptic farmer adoption of climate mitigative practices. *Environmental Research Letters*, 14, 034015. <https://iopscience.iop.org/article/10.1088/1748-9326/aafa30/pdf> Impact Factor = 6.793, 15 citations on google scholar.
- JA27. **Lefsrud, L.M.**, & Vaara, E. 2019. Framing fairness: Microfoundations of the moral legitimacy of Alberta's oil sands. In *Microfoundations of institutions*. Emerald Publishing Limited.

- <https://doi.org/10.1108/S0733-558X2019000065B005>. Impact Factor = 0.92, 2 citations on google scholar, 2 citations on ResearchGate.
- JA28. Hoffman, A.J. ... **Lefsrud, L.M.**... 2018. Environmental Purchasing: A framework for theory development. *Business and the Natural Environment: A Research Overview*, 32(3): 1-6.
- JA29. Macciotta, R. & **Lefsrud, L.M.** 2018. Framework for Developing Risk Evaluation Criteria. *Geoenvironmental Disasters*, 5(1): 10. <https://link.springer.com/article/10.1186/s40677-018-0103-7>. Impact Factor = 2.69, 8 citations on google scholar.
- JA30. Anderson, N.*, Watson, E.*, Cocchio, J., Li, L.* & **Lefsrud, L.M.** 2018. Fostering “Soft-Skill” Graduate Attribute Development using Multifaceted Instructional Strategies in an Undergraduate Engineering Course. *Journal of Online Engineering Education*, 9(1): 1-11. http://www.onlineengineeringeducation.com/joe_v9n1a2.pdf Impact Factor = 0.83, 1 citation on google scholar.
- JA31. Hashemi, S.J.*, Bak, N.*, Khan, F., Hawboldt, K., **Lefsrud, L.M.**, & Wolodko, J. 2018. Bibliometric Analysis of Microbiologically Influenced Corrosion (MIC) of Engineering Systems. *Corrosion*, 74(4): 468-486. <https://www.emerald.com/insight/content/doi/10.1108/S0733-558X2017000054B004/full/html> Impact Factor = 1.62, 21 citations on google scholar.
 ✓ Feature article on cover of *Corrosion*. Second most read article in *Corrosion* in 2018.
- JA32. **Lefsrud, L.M.**, Graves, H. & Phillips, N. 2018. Dirty Oil or Ethical Oil? Visual rhetoric in legitimation struggles. *Research in the Sociology of Organizations*, 54(B): 125-166. <https://www.emerald.com/insight/content/doi/10.1108/S0733-558X2017000054B004/full/html> . Impact Factor = 0.92, 26 citations on google scholar.
 ✓ Best Article 2017 by the Canadian Association for the Study of Discourse and Writing (CASDW).
 ✓ Best Paper, European Group of Organizational Studies 2012, presented July 2013.
- JA33. Dong, C.*, Dong, X., Gehman, G. & **Lefsrud, L.M.** 2017. Using BP Neural Networks to Prioritize Risk Management Approaches for China’s Unconventional Shale Gas Industry. *Sustainability*, 9: 979; doi:10.3390/su9060979. <https://www.mdpi.com/2071-1050/9/6/979> . Impact Factor = 3.251, 11 citations on google scholar.
- JA34.** Gehman, J., **Lefsrud, L.M.**, & Fast, S. 2017. Social License to Operate: Legitimacy by Another Name? *Canadian Public Administration*, 60(2): 293-317. <https://onlinelibrary.wiley.com/doi/full/10.1111/capa.12218> . Impact Factor = 0.90, 132 citations on google scholar.
 ✓ Most cited paper for 2015-2019 in *Canadian Public Administration*.
- JA35. Hollis, G., Westbury, C. & **Lefsrud, L.M.** 2017. Extrapolating Human Judgments from Skip-gram Vector Representations of Word Meaning. *Quarterly Journal of Experimental Psychology*, 70(8): 1603-1619. <https://www.tandfonline.com/doi/abs/10.1080/17470218.2016.1195417> . Impact Factor = 2.143, 73 citations on google scholar.
- JA36. Gehman, J., **Lefsrud, L.M.**, Lounsbury, M. Lu, C.*, Parks, K. 2016. Perspectives on Energy and Environment Risks: With Implications for Canadian Energy Development. *Bulletin of Canadian Petroleum Geology*, 64(2): 384-388. <https://pubs.geoscienceworld.org/cspg/bcpg/article-abstract/64/2/384/519125/Perspectives-on-Energy-and-Environment-Risks-with?redirectedFrom=fulltext> Impact Factor = 1.169, 7 citations on google scholar.

- JA37. **Lefsrud, L.M.** & Vaara, E. 2015. What Is Fair and How Do We Know? Penn Program on Regulation, Regblog. July 20, 2015. Practitioners' version of our paper 'Framing Fairness'. Available at: <http://www.regblog.org/2015/07/20/lefsrud-vaara-fairness/>
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 - ✓ NBS-ONE Best Practice Paper 2013 finalist, for research that has important implications for practice, focusing on any dimension of social or environmental sustainability. Available online at: <http://nbs.net/new-award-recognizes-global-research-providing-sustainability-solutions/>
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 - ✓ Profiled by Sage Publishers Social Science Space. Available online at: <http://www.socialsciencespace.com/2013/03/risk-management-approach-could-motivate-climate-change-action/>
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- CP3. Rad, M.*, **Lefsrud, L.M.**, & Hendry, M. 2021. Applications of innovative accident analysis methods in railways: A review. *Canadian and Cold Regions Rail Research Conference*, 9-10

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- CP9. Jamieson, M.*, **Lefsrud, L.M.**, Donald, J.R., & Sattari, F.* 2020. *Safety and Risk Management: A Structured Case Study Approach to Investigating Chemical Process Safety*, *Proceedings of the American Society of Engineering Education Annual Conference and Exposition*, 24 pages. <https://peer.asee.org/engineering-safety-and-risk-management-a-structured-case-study-approach-to-investigating-chemical-process-safety> . 1 citation on google scholar.
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- CP11. Silva, V.*, Herman, A.*, Mirzaei, M.*, Du, E.*, Hu, B.*, Sawchyn, M., **Lefsrud, L.M.**, Sander, J. & Stroulia, E. 2019. Analyzing and Visualizing the Canadian Research Landscape. *CASCON Proceedings*. <https://dl.acm.org/doi/abs/10.5555/3370272.3370306>
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- B1. Bruni, E. & **Lefsrud, L.M.** *Science denial impact: People, organizations, and institutions*. Under contract with Stanford University Press for 2024

Book Chapters - Refereed

- BC1. **Lefsrud, L.M.**, Graves, H. & Phillips, N. 2015. Chapter 22: Analyzing Visual Rhetoric in Organizational Research, In *Innovative Qualitative Methods Handbook*. Kim Elsbach & Rod Kramer (Eds.). Routledge, 225-237. 16 citations on google scholar.
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- BC2. **Lefsrud, L.M.** & Jennings, P.D. 2015. Chapter 9: Entrepreneurial Storytelling: An Institutional Tale, In *Small Business in a Global Economy: Creating and Managing Successful Organizations*, Scott L. Newbert (Ed.). Santa Barbara: Praeger, 215-241. 6 citations on google scholar.
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 ✓ Profiled by Ross School of Business in a media release. Available online at: <http://www.ns.umich.edu/new/releases/21872-what-s-your-story-six-strategies-for-entrepreneurs>
- BC3. **Lefsrud, L.M. *** & Suddaby, R. 2012. After the Gold Rush: The Role of Professionals in the Emergence and Configuration of Organizational Fields. *The Handbook of Research on Entrepreneurship in Professional Services*, edited by Markus Reihlen & Andreas Werr. Cheltenham: Edward Elgar. 20 citations on google scholar.
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Number 5), edited by J.C. Powell, R.K. Turner, and I. Bateman. North Hampton: Edward Elgar Publishers.

Interviews - Print, Radio, and Online Video

- I1. Creative sentencing improves workplace safety: Why don't we use it more? Lianne M. Lefsrud, Heather Eckert, and Joel Gehman. *The Conversation*, 4 April 2022, <https://theconversation.com/creative-sentencing-improves-workplace-safety-why-dont-we-use-it-more-179814>
- I2. Part 2 In A Series: The Messenger Matters — Finding The Right Advocate To Tell The Energy Sector's Story, by Carter Haydu, *Daily Oil Bulletin*, Wednesday, December 22, 2021, <https://www.dailyoilbulletin.com/article/2021/12/21/ualberta-academic-says-rebranding-the-oil-and-gas/>
- I3. Part 1 In A Series: UAlberta Academic Says Rebranding The Oil And Gas Industry Must Be Organic, by Carter Haydu, *Daily Oil Bulletin*, Tuesday, December 21, 2021, <https://www.dailyoilbulletin.com/article/2021/12/21/ualberta-academic-says-rebranding-the-oil-and-gas/>
- I4. Creative Sentencing Penalties Can Improve Workplace Safety. OHS Canada. July/August 2021, p. 8: <https://mydigitalpublication.com/publication/?m=46153&i=715686&p=8&ver=html5>
- I5. A Century of Accomplishments— Dr. Lianne Lefsrud, P.Eng. Profiled for APEGA's Centennial. Available URL: <https://www.youtube.com/watch?v=QZJXmExrWkQ>.
- I6. Alberta's 'energy war room': Reframing the energy debate or attempt to mimic legitimate journalism?, *Globe and Mail*, December 20, 2019. Available URL: <https://www.theglobeandmail.com/canada/alberta/article-albertas-energy-war-room-reframing-the-energy-debate-or-pretending/>
- I7. Say What? University of Alberta prof says we all need to calm down, Canadian Energy Centre. December 5, 2019. Available URL: <https://www.canadianenergycentre.ca/say-what-university-of-alberta-prof-says-we-all-need-to-calm-down/>
- I8. Profiled with 29 other women engineers in www.30yearslater.ca to commemorate the 30th anniversary of the Montreal Massacre. This website was mentioned in over 50 media outlets including: Global News <https://globalnews.ca/news/6242996/ecole-polytechnique-violence/>, CBC <https://www.cbc.ca/news/technology/montreal-massacre-women-engineer-profiles-1.5385088>, Montreal Gazette <https://montrealgazette.com/news/local-news/police-arrest-admirer-of-polytechnique-shooter-marc-lepine>, CTV news <https://montreal.ctvnews.ca/montreal-police-arrest-blogger-alleged-to-have-glorified-polytechnique-mass-murderer-1.4718872>, Toronto Star <https://www.thestar.com/opinion/contributors/2019/12/05/thirty-years-after-the-montreal-massacre-were-still-in-limbo.html>, Huffington Post https://www.huffingtonpost.ca/entry/montreal-massacre-officially-attack-on-feminism_ca_5de9ab6fe4b0d50f32b11af3
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- I12. Tait, A. 2018. Creative sentencing: Alberta Occupational Health and Safety going beyond fines., *Rock to Road*, July 31, 2018. Available URL: <https://www.rocktoroad.com/creative-sentencing-5983/>

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- I19. Stastny, R.P. 2017. There's still ample room for improvement in Alberta's heavy construction safety culture. *JWN Energy*, 20 July 2017. Available URL: <http://www.jwnenergy.com/article/2017/7/despite-some-good-news-theres-still-ample-room-improvement-albertas-heavy-construction-safety-culture/>
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Under Review and Working Papers

- UR1. Rad, M.*, **Lefsrud, L.M.**, and Hendry, M. Application of systems thinking accident analysis methods: A review for railways. Under review with *Safety Science*.
- UR2. Couture, A.*, Sattari, F.*, & **Lefsrud, L.M.** Effectiveness of controls in limiting occupational exposure to crystalline silica as quartz within the road construction industry. Under review with *Annals of Work Exposures and Health*.
- UR3. **Lefsrud, L.M.**, & Fox, K. Modernizing ambiguity: Professionals' Categorization of Oil and Gas Reserves. Second round review with *Critical Perspectives in Accounting*.
- UR4. Eckert, H., **Lefsrud, L.M.**, Gehman, J. & Zhao, L.* Creative and Traditional Sentencing for OHS Prosecutions in Alberta. Under review with *American Law and Economics Review*.
- UR5. Baker, K.E.*, Macciotta, R. & **Lefsrud, L.M.** How can we see the unforeseeable? Enhancements to hazard identification, safety culture, and risk communication for preventing man-made incidents. Under review with the *International Journal of Risk Assessment and Management*.
- UR6. Sattari, F.*, Kurian, D.*, Bak, N.*, **Lefsrud, L.M.**, Wolodko, J. Knowledge Transfer Processes in the Multidisciplinary Field of Microbially Influenced Corrosion. Under review with *Data & Knowledge Engineering*.
- UR7. McRory, S., McRory, T., Jefferies, C., Stock, H, Welsh, D., Brooymans, H. Tait, A. & **Lefsrud, L.M.** Creative Sentencing: A Tool to Influence Corporate Behaviour. Revise and resubmit with *Alberta Law Review*.
- UR8. **Lefsrud, L.M.** & Vaara, E. Framing Fairness: Meta-Frames and the Dynamics of Frame Containment and Expansion in the Case of Alberta's Oil Sands. Revise and Resubmit with *Organization Science*.
- UR9. **Lefsrud, L.M.**, Oberg, A. & Meyer, R. Organizational emotions in online climate change debate. Preparing to submit to *Administrative Science Quarterly*.
- UR10. **Lefsrud, L.M.**, Baker, K.E.* & Gehman, J. Organizational Myopia: How organizations create complexity, ambiguity, and uncertainty to blind their risk management efforts. Preparing to submit to the *Journal of Management*.

Dissertation

Lefsrud, L.M. 2014. *When Worlds Collide: The intersection of meaning-making between hearings and media for Alberta's oil sands*, University of Alberta. My dissertation is an extended case study from 1960 to 2010 of the Alberta oil sands, using network analysis to visualize evolving vocabularies and rhetorical analysis of contestations of meaning. Actors shift discussion from technical, economic meanings to morally transcendent values. Even those excluded from the regulatory process, such as aboriginal communities and ENGOs, can leverage themselves and their criticisms into hearings, and the hearings into the media, making these hearings field reflecting (rather than configuring) events. Besides the logical argumentation and normative credibility, emotional appeals are fundamental for creating resonance across audiences.

- ✓ My dissertation forms the basis of my TEDx talk. Available URL:

http://www.youtube.com/watch?v=t5LZ9MNC_Ts

Research Reports

- RR1. Rad, M. A., **Lefsrud, L.**, & Hendry, M. 2022. *Leverage text mining for analyzing accident reports of automated train control systems*. Canadian Rail Research Laboratory Report for Transport Canada.
- RR2. **Lefsrud, L.M.**, Forster, D. & Muller, B.C. 2021. *Ontario Power Generation Review of Dam Safety Program*, Report of the Twelfth Dam Safety Advisory Panel Meeting, Part 2. 64 pp.
- RR3. **Lefsrud, L.M.**, Forster, D. & Muller, B.C. 2021. *Ontario Power Generation Review of Dam Safety Program*, Report of the Twelfth Dam Safety Advisory Panel Meeting, Part 1. 35 pp.
- RR4. Sattari, F.* & **Lefsrud, L.M.** 2021. Office of Energy Research and Development (ERD) Oil & Gas Clean Tech Program Performance Evaluation, NRCan. 30 pp.
- RR5. Sattari, F.*, Macciotta, R., **Lefsrud, L.M.** 2021 *Risk Tolerance Strategy for Rail Transport of Dangerous Goods Task 1: Review of Rail Occurrence Databases Report*, Transport Canada. 103 pp.
- RR6. Rad, M.A.*, Hendry, M. & **Lefsrud, L.M.** 2021 *Canadian Rail Research Laboratory Report on Literature Review on Cognitive Impacts of In-Cab Warning Systems*, Transport Canada. 117 pp.
- RR7. Rad, M. A., Lefsrud, L. M., & Hendry, M. 2021. *Applications of Innovative Accident Analysis Methods in Railways: A Review*. Canadian Rail Research Laboratory Report for Transport Canada.
- RR8. Rad, M. A., **Lefsrud, L. M.**, Hendry, M., & Blais, D. 2021. *Human-Factors and Automation-Related Accidents in the Railway Industry*. Canadian Rail Research Laboratory Report for Transport Canada.
- RR9. Rad, M. A., **Lefsrud, L.**, & Hendry, M. 2021. *Inadvertently introducing human factors in automated systems control: Train protection systems*. Canadian Rail Research Laboratory Report for Transport Canada.
- RR10. Macciotta, R. & **Lefsrud, L.M.** 2019. *Risk Tolerance Strategy for Rail Transport of Dangerous Goods. Task 1: Review of Rail Occurrence Databases*. Railway Research Advisory Board.
- RR11. Baker, K.E.*, **Lefsrud, L.M.**, Hendry, M.T., & Macciotta Pulisci, R. 2019. *Final Report for Creative Sentencing: Protecting Worker Safety in Alberta by Enhancing Field Level Hazard Assessments and Training for Ground Hazards Associated with Tailings Facilities, Dams, and Systems*. March 23, 2018 for Investigations, Alberta Labour. 78 pp.
- RR12. Baker, K.E.*, Giang, V.* & **Lefsrud, L.M.** 2018. *Risk Communication Teaching Module*. Minerva Canada: Mississauga, ON.
- RR13. **Lefsrud, L.M.**, Balaberda, A-L.*, Cossey, H. *, Chakraberty, R. *, Davis, J. *, Ghaneei, M. *, Mercier, R. *, Moghaddam, R. *, Palat, A. *, Sharma, M. *, Valupadas, M. * & Vestrum, S. * 2018. Canadian Centre for Women in Science, Engineering, Trades and Technology (CCWESTT) 2018 Policy Forum Report.

- RR14. Baker, K.E.*, Zettl, J.D.*, **Lefsrud, L.M.**, Hendry, M.T., Macciotta Pulisci, R. 2018. *Interim Report for Creative Sentencing: Protecting Worker Safety in Alberta by Enhancing Field Level Hazard Assessments and Training for Ground Hazards Associated with Tailings Facilities, Dams, and Systems*. March 23, 2018 for Investigations, Alberta Labour. 78 pp.
- RR15. **Lefsrud, L.M.**, Macciotta Pulisci, R., and Nkoro, A.* 2017. Railway Association of Canada, *Role of Safety Management Systems (SMS) in the railway industry and potential for enhancement of the Railway Safety Act (RSA)*, August 2017.
- RR16. **Lefsrud, L.M.**, Farjoo, A*., Pennetta de Oliveira, L.*., Caldera, A.,* and Esmaeeli, N.* 2017. *Creating a Positive Safety Culture and Continuous Improvement in Alberta's Construction Industry*. Reports to the Construction Owners Association Board of Directors and Participating Companies. May, 2017.
- RR17. **Lefsrud, L.M.**, Westbury, C., Keith, J.* & Hollis, G. 2015. A Basis for Genuine Dialogue: Developing a Science-Based Understanding of Public/Industry Communication. Phase I Report Prepared for the Alberta Chamber of Resources. October 2015. 81 pp.
- RR18. **Lefsrud, L.M.**,* Luchkow, R. & Wilson, M. 2014. *Enhancing the Common Language for Risk Management and Performance Measures*. Report for the Alberta Department of Energy, Policy and Regulatory Alignment Branch and Policy Management Office. Government of Alberta, May 2014.
- RR19. *Alberta Environment and Sustainable Resource Development (AESRD) Joint Task Force on Engagements to Provide Reasonable Assurance on Greenhouse Gas (GHG) Emissions: Accreditation Related to the Verification of GHG Emissions Information*. Government of Alberta, August 2014.
- RR20. Barteau, M., Hoffman, A., Maynard, A., Miller, S., Scavia, D., Crane, G., Edwards, P., Glotzer, S., **Lefsrud, L.M.***, Rohde, J. and Uhlmann, D., 2014. *Academic Engagement in Public and Political Discourse*. Ross School of Business, University of Michigan, January 2014.
- RR21. *Technical Guidance for Greenhouse Gas Verification at a Reasonable Level of Assurance*. Government of Alberta, January 2013.
- RR22. *Member Consultation on Climate Change - Report to Council*. A Survey by APEGA's Environment Committee, Feb. 2008. Completed research and wrote report on behalf of the Environment Committee.
- RR23. *Outsourced Engineering in Alberta's Major Projects*. 2006. An Inquiry by APEGA's Practice Review Board, May 2006. Completed research and wrote report on behalf of the Practice Review Board.
- RR24. Zeiss, C. & **Lefsrud, L.M.*** 1995. *Property Value Effects and Property Value Protection Programs for Waste Facilities in Host Communities*, prepared for the Siting Task Force on Low-Level Radioactive Waste Management.
- RR25. Zeiss, C. & **Lefsrud, L.M.*** 1995. *Waste Facility Siting Framework: Development and Validation*, prepared for Office of the U.S. Nuclear Waste Negotiator.
- RR26. Zeiss, C. & **Lefsrud, L.M.*** 1994. *Review Report of Host Community Incentives Packages for the Siting Task Force on Low-Level Radioactive Waste Management*, prepared for Health and Welfare Canada.
- RR27. Zeiss, C. & **Lefsrud, L.M.*** 1994. *Class Assessment Method and Framework for Nursing Stations in Northern Communities*, prepared for Health and Welfare Canada.
- RR28. Hicks, F., Gerard, R., Chen, X.* & **Lefsrud, L.M.*** 1992. *A Preliminary Investigation of Break Up Processes on the Mackenzie River at the Ft. Providence Ferry Crossing*, Water Resources Engineering Report No. 92-2, Department of Civil Engineering, University of Alberta, Edmonton, Alberta.

Regulations - Policy Statements, Practice Standards and Guidelines

Developed and revised – under the auspices of APEGA's Practice Standards Committee and Environment Committee – policy statements, practice standards, and guidelines to establish the standard of care

expected of professional engineers and geoscientists. My role varied from being the sole author of original documents and incorporating reviewers' comments to the technical editor of a subcommittee revising existing documents. Most of these remain in force, unchanged since my departure from APEGA. Of these, several have become adopted (in whole or part) as national engineering guidelines by Engineers Canada, the national organization of the 12 engineering regulators that license the country's 280,000 members of the profession.

- R1. *Practice Standard for Professional Members Environmental Responsibilities*. APEGA. Revising.
- R2. *Guideline for Management of Risk in Professional Practice*. APEGA, Sep. 2006. 43 pages.
- R3. *Determining the Need for Professional Involvement in Outsourced Engineering*. APEGA, v. 1.0, May 2009, 9 pages.
- R4. *Professional Members as Contract Employees and Independent Contractors*. APEGA, Sep. 2007. 20 pages.
- R5. *Development of Consulting Rate Structures and Contracts V1.0*. APEGA, Feb. 2005. 38 pages. This document is an update and replacement of four APEGA practice standards and guidelines.
- R6. *Guidelines for Considerations for Establishing a Consulting Practice V1.0*. APEGA, Sep. 2005. 14 pages.
- R7. *Concepts of Professionalism V1.0*. APEGA, Sep. 2004. 10 pages. Adapted as national guideline by Engineers Canada.
- R8. *Guideline for Environmental Practice V1.0*. APEGA, Feb. 2004. 15 pages. Adapted as national guideline by Engineers Canada.
- R9. *Determining the Need for Professional Involvement in Outsourced Engineering*. APEGA, v. 1.0, May 2009, 9 pages.
- R10. *Professional Responsibilities in the Completion and Assurance of Reclamation and Remediation Work in Alberta*. Joint Practice Standard by APEGA, Alberta Institute of Agrologists, Alberta Society of Professional Biologists, Alberta Chemical Professionals of Alberta, College of Alberta Professional Foresters, and College of Alberta Professional Foresters Technologists, September 2007. 37 pages. Forms the basis of a national guideline being developed by Engineers Canada.
- R11. *Guideline for Selecting Engineering, Geological and Geophysical Consultants*. APEGA, September 2006. 24 pages.
- R12. *Continuing Professional Development - A Guideline for Professional Members*. APEGA, June 2006. 29 pages.
- R13. *Guideline for Professional Responsibilities in Developing Software V1.0*. APEGA, February 2006. 17 pages.
- R14. *Guideline for Copying and Use of Computer Software V1.1*. APEGA, November 2005. 4 pages.
- R15. *Guideline for Human Rights Issues in Professional Practice V1.1*. APEGA, November 2005. 10 pages.
- R16. *Guideline for Advertising of Professional Services V2.0*. APEGA, April 2005. 14 pages.
- R17. *Guideline for Professional Practice Management Plans V1.2*. APEGA, June 2004. 15 pages.
- R18. *Guideline for Professional Member as a Witness V1.0*. APEGA, October 2003. 16 pages.
- R19. *Guideline for Relying on Work Prepared by Others V1.0*. APEGA, June 2003. 13 pages.

CONFERENCE PRESENTATIONS - Refereed

- C1. Bruni, E.* & Lefsrud, L.M. 2021. Symposium: *Science denial: causes, courses, and remedies*. A route map for organizational scholars, Academy of Management Conference, July 31 – August 3, 2021.

- C2. Etchanchu, H., Cascadden, M.*, & **Lefsrud, L.M.** 2021. Panel Symposium: Addressing Grand Challenges in Organization Theory-System Change through Theory, Engagement & Action, Academy of Management Conference, July 31 – August 3, 2021.
- C3. Jansary, D., Svenjenova, S., Islam, G., Hoellerer, M., Zilber, T., **Lefsrud, L.M.**, Zundel, M., Lehtonen, M., Toraldo, M.L. 2021. *Publishing multimodal research / publishing research multimodally*, Academy of Management Conference, July 31 – August 3, 2021.
- C4. **Lefsrud, L.M.**, Baker, K.E.* & Gehman, J. 2021. Hiding Blind: Organizational ambiguity, fear, and silence. Sub-theme 34 Ignorance at Work: How Organizations Strive Not to Know. 37th Colloquium, European Group of Organizational Studies (EGOS) Sub-theme 17: Enlightening the Future through Riskwork. Amsterdam and online, July 2-9, 2021.
- C5. **Lefsrud, L.M.**, Mullick, A., Pederson, A., Jensen-Fontaine, M., Asiedu, E.*, Miles, S.*, Baker, K.E. 2019. *Spanning Boundaries Through Conferences: Engaging Diverse EDI Stakeholders to Promote Change*. 1st Annual Intersections of Gender Conference (Working the Intersections of Gender), Edmonton, October 2019.
- C6. **Lefsrud, L.M.**, Mullick, A., Vandenberghe, J., & Burgart, D. 2019. *Becoming an EDI Activist in Engineering: Motivations, Inspiration, and Learnings*. 1st Annual Intersections of Gender Conference (Working the Intersections of Gender), Edmonton, October 2019.
- C7. **Lefsrud, L.M.**, Oberg, A. & Meyer, R.E. 2019. *Heated Atmosphere: Organizational Emotions and Field Structuring in Online Climate Change Debates*. Academy of Management, Boston, August 2019.
- C8. Baker, K.E.*, & **Lefsrud, L.M.** 2019. *Organizational myopia: How organizations create complexity, ambiguity, and uncertainty to blind their risk management efforts*. 35th Colloquium, European Group of Organizational Studies (EGOS) Sub-theme 17: Enlightening the Future through Riskwork. University of Edinburgh, July 2019.
- C9. Baker, K.E.*, & **Lefsrud, L.M.** 2019. *Using Process Safety Management tools to identify and assess oil sands tailings hazards*. Society for Risk Analysis, University of Luxembourg, March 2019.
- C10. Baker, K.E.*, & **Lefsrud, L.M.** 2019. *Communicating risks across organizations and to contractors in the oil sands tailings operations*. Society for Risk Analysis, University of Luxembourg, March 2019.
- C11. Baker, K.E.*, & **Lefsrud, L.M.** 2019. *“Deviance? Wrongdoing? Myopia?”* Society for Risk Analysis, University of Luxembourg, March 2019.
- C12. Pope, G., **Lefsrud, L.M.** & Oliver, M. 2018. *Canadian Workplace Culture: Human Rights Issue or Essential Competency?* Canadian Network of Association Regulators (CNAR) Annual Conference, Banff, October 2018.
- C13. Baker, K.E.*, Zettl, J.*, Macciotta, R., Hendry, M., & **Lefsrud, L.M.** 2018. *Protecting workers exposed to ground hazards through enhanced hazard identification and management tools*. GeoEdmonton Conference, September 2018.
- C14. **Lefsrud, L.M.**, Fox, K., Cooper, D., & Taminiau, Y. 2018. *Inter-professional categorization in accounting regulation*. Organizations and Management Theory Division, Academy of Management Annual meeting, Chicago, August, 2018.
- C15. **Lefsrud, L.M.**, Fox, K., Cooper, D., & Taminiau, Y. 2018. *Inter-professional relations and categorization in accounting regulation: The case of Modernizing Oil and Gas Reserve Reporting*. 12th Interdisciplinary Perspectives on Accounting Conference, University of Edinburgh Business School, 11-13 July 2018.
- C16. Davidson, D.J. & **Lefsrud, L.M.** 2018. Can Farmers be Climate Leaders. RC24 Session, “Climate change mitigation and adaptation: Progress and pitfalls in low-carbon transition,” at the World Congress of Sociology, Toronto, July 2018.
- C17. Baker, K.E.*, Zettl, J.*, Macciotta, R., Hendry, M., **Lefsrud, L.M.** 2018. *Using Process Safety Management tools to identify and assess tailings hazards*. Canadian Institute of Mining (CIM), Vancouver, May 2018.

- C18. Baker, K.E.,* Zettl, J.,* Macciotta, R., Hendry, M., & **Lefsrud, L.M.** 2018. *Communicating risks across organizations and to contractor*. Canadian Institute of Mining (CIM), Vancouver, May 2018.
- C19. Baker, K.E.,* Zettl, J.,* Macciotta, R., Hendry, M., & **Lefsrud, L.M.** 2018. *Protecting workers exposed to ground hazards through enhanced Field Level Hazard Assessment tools*, Geohazards 7 Conference – Engineering Resiliency in a Changing Climate, Canmore, June 3-6.
- C20. McRory, S., Walsh, D., Tait, A., & **Lefsrud, L.M.** 2017. Our journey with creative sentencing, Canadian Society of Safety Engineers, Annual Conference, September 17, Halifax.
- C21. Farjoo, A.*, Pennetta de Oliveira, L.*, Caldera, A.*, Esmaeeli, N.*, & **Lefsrud, L.M.** 2017. *Creating a Positive Safety Culture and Continuous Improvement in Alberta’s Construction Industry*. XXI World Congress on Safety and Health at Work 2017. 3-6 September, 2017, Singapore.
- C22. **Lefsrud, L.M.**, Oberg, A. & Meyer, R. 2017. *Organizational emotions in online climate change debate*. 33rd EGOS Colloquium, Copenhagen, July 6-8, 2017.
- C23. **Lefsrud, L.M.** & Gieg, L.M. 2017. ‘Managing Microbial Corrosion in Canadian Offshore & Onshore Oil Production Operations’, CORROSION 2017 (NACE). Project presentation to Technology Exchange Group (TEG) 187X (Microbiologically-Influenced Corrosion technical group), New Orleans, LA, March 28.
- C24. Bak, N.*; **Lefsrud, L.M.**, Wolodko, J. 2017. *Determining the scope of MIC in the research literature and in industry*. Abstract (poster presentation), CORROSION 2017 (NACE), New Orleans, LA, March 26- 30.
- C25. **Lefsrud, L.M.**, Fox, K., Cooper, D., & Taminiou, Y. 2016. *Maintaining Oil and Gas Reserves Accounting: The Limits of Commensuration*. Accounting, Organizations, and Society Conference, London School of Economics, December 14, 2016.
- C26. Umme, M.* & **Lefsrud, L.M.** 2016. *How Can Regulatory Prosecution Improve Workplace Safety?* 66th Canadian Chemical Engineering Conference, Quebec City, October 16-19, 2016.
- C27. **Lefsrud, L.M.**, Gehman, J. & Jamieson, M.J. 2016. *Revisiting How ‘Acceptable Risk’ and ‘Social License to Operate’ Become Defined: An Incorporation of Social-psychological Processes into Technical Risk Management*. 66th Canadian Chemical Engineering Conference, Quebec City, October 16-19, 2016.
- C28. Jamieson, M.J. & **Lefsrud, L.M.** 2016. *Using Hazard Identification, Risk Assessment, and the Sustainable Design Process to Evolve Environmental Regulations*. 66th Canadian Chemical Engineering Conference, Quebec City, October 16-19, 2016.
- C29. **Lefsrud, L.M.** Graves, H. & Phillips, N. “*Giant Toxic Lakes You Can See from Space*”: *A Theory of Multimodal Messages and Emotionality in Legitimacy Work*. Copenhagen Business School conference on visibility, materiality, multimodality on September 22-23, 2016.
- C30. **Lefsrud, L.M.**, Jamieson, M. & Gehman, J. 2016. *Revisiting how Acceptable Risk and Social License to Operate Become Defined*. Congreso Colombiano de Minería. Medellin Colombia, May 24, 2016.
- C31. Baker, K.E.* & **Lefsrud, L.M.** 2016. *Hazard Control Implementation for Contaminated Water Recycling in the Mining & Energy Sectors / Aplicación de control de riesgo para el agua contaminada de reciclaje en los sectores de minería y energía*. Congreso Colombiano de Minería. Medellin Colombia, May 24, 2016.
- C32. Jamieson, M. & **Lefsrud, L.M.** 2016. *Evolving Regulations to Support Sustainable Design / Evolución de las reglamentaciones para apoyar el diseño sostenible*. Congreso Colombiano de Minería. Medellin Colombia, May 23, 2016.
- C33. **Lefsrud, L.M.**, Oberg, A. & Meyer, R. 2016. *Organizational Emotionality in the Discursive Field of Climate Change*. 12th Workshop on New Institutionalism in Organization Theory, Lucerne, March 31-April 01, 2016.

- C34. Hoffman, A.J., & **Lefsrud, L.M.** 2015. *Paradox and Sustainability: Moving Beyond the Business Case. ONE Research and Practice in the Era of the Anthropocene.* Academy of Management Annual meeting, Vancouver, August 10, 2015.
- C35. Hoffman, A.J., Jennings, D.J., & **Lefsrud, L.M.** 2015. *Climate change in the era of the Anthropocene – An institutional analysis.* Subtheme 23: Climate (In)action: Understanding Corporate and Institutional Inertia, 31st EGOS Colloquium, Athens, July 2-4, 2015.
- C36. **Lefsrud, L.M.**, Phillips, N. & Westbury, C. 2015. *Categorization and Framing as Legitimacy Work: The Struggle over the Canadian Oil Sands.* Sub-theme 62: Take a Walk on the Wild Side: Social Ontologies and Post-Legitimacy Theorizing about Social Structure, 31st EGOS Colloquium, Athens, July 2-4, 2015.
- C37. **Lefsrud, L.M.**, Graves, H. & Phillips, N. 2015. Picture the Feeling: Theorizing the Role of Emotion in Legitimacy Work. European Theory Development Workshop, Cardiff UK, June 25-26, 2015.
- C38. **Lefsrud, L.M.** & Vaara, E. 2015. *Framing Fairness: The Case of Alberta Oil Sands.* Alberta Institutions Conference, Banff, June 12-14, 2015.
- C39. **Lefsrud, L.M.** *When Worlds Collide?* 2014. In Showcase Symposium: *Bridging Institutional Analysis with Cultural Dynamics in Explaining Environmental Sustainability.* Academy of Management, ONE, SIM and OMT Divisions, Philadelphia, August 1-5, 2014.
- C40. **Lefsrud, L.M.**, Graves, H. & Phillips, N. 2014. A Theory of Visual Rhetoric in Legitimacy Struggles. Sub-theme 07: (SWG) Visualizing Institutions and Knowledge, 30th EGOS Colloquium, Jul. 3–5, 2014, Rotterdam.
- C41. Gehman, J., **Lefsrud, L.M.**, Lounsbury, M. & Lu, C. 2014. Perspectives on Energy and Environment Risks. Helmholtz-Alberta Initiative Energy and Environment (HAI-E&E) Annual Science Forum. Edmonton, AB, Canada, September 29, 2014, Edmonton.
- C42. **Lefsrud, L.M.** & Vaara, E. 2014. *Relational Legitimacy through Justice: The Case of Alberta Oil Sands.* 3rd European Theory Development Workshop, Jun. 27-28, 2014, Amsterdam.
- C43. **Lefsrud, L.M.**, Graves, H., & Phillips, N. 2014. *Dirty Oil, Ethical Oil, Legitimate or Not? The Struggle to Categorize the Alberta Oil Sands.* Alliance for Research on Corporate Sustainability (ARCS) Conference, Cornell University, May 7-9, 2014, Ithaca.
- C44. **Lefsrud, L.M.**, Graves, H. & Phillips, N. 2013. *Dirty Oil, Ethical Oil: Categorical Illegitimacy and the Struggle over the Alberta Oil Sands.* Emotions and Institutions Workshop, York University, Dec. 11-12, 2013, Toronto.
- C45. **Lefsrud, L.M.**, Graves, H. & Phillips, N. 2013. *Dirty Oil, Ethical Oil: Categorical Illegitimacy and the Struggle over the Alberta Oil Sands.* Sub-theme 48: The Emergence of Categories, Identities, Fields and Organizational Forms, 29th EGOS Colloquium, Jul. 4–6, 2013, Montreal.
- C46. **Lefsrud, L.M.**, Fox, K.A., Cooper, D.J., & Taminiiau, Y. 2013. *Veils of Ambiguity: Professionals' Categorization of Oil and Gas Reserves.* Sub-theme 30: Strategic and Institutional Environments. Sub-theme 48: The Emergence of Categories, Identities, Fields and Organizational Forms, 29th EGOS Colloquium, Jul. 4-6, 2013, Montreal.
- C47. Misutka, P. & **Lefsrud, L.M.** 2013. *At the Gateway of Social Injustice? An International Conference on Inequality, Institutions and Organizations,* June 6-8, 2013, Segal Graduate School of Business, Simon Fraser University, Vancouver.
- C48. **Lefsrud, L.M.** & Suddaby, R. 2013. Golden Goose or Ugly Duckling. *Connecting Rigor and Relevance in Institutional Analysis,* Doctoral Consortium, Harvard University, June 2-4, 2013.
- C49. **Lefsrud, L.M.**, Graves, H., & Phillips, N. 2013. *Dirty Oil, Ethical Oil: Categorical Illegitimacy and the Struggle over the Alberta Oil Sands.* Sustainability, Ethics, and Entrepreneurship (SEE) Conference, Apr. 11-12, 2013, University of Denver, Colorado.
- C50. **Lefsrud, L.M.** & Meyer, R.E. 2012. *Science or Science Fiction? Experts' Discursive Construction of Climate Change.* Academy of Management, OMT Division, Boston, Aug. 3-7, 2012. Finalist for Best International Paper, OMT.

- C51. **Lefsrud, L.M.**, Graves, H. & Phillips, N. 2012. *Dirty Oil, Snake Oil: The Categorical Illegitimacy of Alberta's Oilsands*. Sub-theme 24: Organizations as Phenomena of Language Use: Interconnecting Discourse and Communication, 28th EGOS Colloquium, Jul. 5–7, 2012, Helsinki. Awarded *Best Paper* of the Conference.
- C52. Graves, H., **Lefsrud, L.M.**, & Phillips, N. 2012. *Dirty Oil/Ethical Oil/Snake Oil: Discursive Positioning in Environmental Rhetoric*. Canadian Association for the Study of Discourse & Writing, Wilfred Laurier University, May 26-28, 2012, Kitchener-Waterloo.
- C53. **Lefsrud, L.M.**, Graves, H. & Phillips, N. 2012. *Dirty Oil, Snake Oil: Illegitimacy of Alberta's Oilsands*. 8th New Institutionalism Workshop, 15 – 16 Mar. 2012, ESADE Ramon Llull University, Barcelona.
- C54. **Lefsrud, L.M.** & Suddaby, R. 2011. *Co-Constructing the Meaning of Oil: Stakeholders' Definition and Valuation of Resources in Alberta's Oil Sands*. Energy, Organizations, and Society (EOS) workshop, Oct. 14-15, 2011, University of California, Davis.
- C55. **Lefsrud, L.M.** & Suddaby, R. 2011. *Co-Constructing the Meaning of Oil: Stakeholders' Definition and Valuation of Resources in Alberta's Oil Sands*. Organizing Institutions: Studying the Emergence of New Practices, Sep. 30-Oct. 1, 2011, Harvard Business School, Boston.
- C56. **Lefsrud, L.M.** & Emerson, C.J. 2011. *Putting Fuel in the Tank: Best Practices in Promoting Diversity and Innovation*. Fueling the Future: International Conference for Women in Oil & Gas, Mar. 8-9, 2011, St. John's, Newfoundland and Labrador.
- C57. **Lefsrud, L.M.** & Meyer, R.E. 2011. *Science or Science Fiction? Experts' Discursive Construction of Climate Change*. ETH PhD-Academy on Sustainability and Technology: Climate Change Mitigation and Adaptation: An Organizational Science Perspective, Jan. 16-21, 2011, ETH Zurich Centro Stefano Franscini.
- C58. **Lefsrud, L.M.** & Suddaby, R. 2010. *Oil & Water: Stakeholders' Framing of Resources in Alberta's Oil Sands*, Unwrap the Research Conference, Oct. 22-24, 2010, Ft McMurray.
- C59. **Lefsrud, L.M.** & Suddaby, R. 2010. *Oil & Water: Framing of Resources in Alberta's Oil Sands*. OCIS: PDW on Materiality in Organizational Studies: Mapping the Territory, Aug. 6-10, 2010, Academy of Management, Montreal.
- C60. **Lefsrud, L.M.** & Suddaby, R. 2010. *After the Gold Rush: The Role of Professionals in Emergence/Configuration of Organizational Fields*. Symposium on Entrepreneurship in Professional Services, Aug. 6-10, 2010 Academy of Management, Montreal.
- C61. **Lefsrud, L.M.** & Meyer, R.E. 2010. *Science or Science Fiction? Experts' Discursive Construction of Climate Change*. Sub-theme 46: Global Fears – Local Consequences: Discourses, Disguises and Productive Change, EGOS, Jun. 28-Jul. 3, 2010, Lisbon.
- C62. **Lefsrud, L.M.** & Suddaby, R. 2010. *During the Gold Rush: Field-Level Regulation of Alberta's Oil Sands in Definition and Valuation of Resources*. Organizing Institutions: Agency and Interpretive Approaches, May 21-22, 2010, Copenhagen Business School, Copenhagen.
- C63. **Lefsrud, L.M.** & Suddaby, R. 2010. *Oil & Water: Stakeholders' Framing of Resources in Alberta's Oil Sands*. Annual conference for International Association for Business and Society, Banff, Mar. 25-28, 2010.
- C64. **Lefsrud, L.M.** & Meyer, R.E. 2009. *Considering the Materiality of Climate Change through Professionals' Logics, Framing and Agency*. EGOS, Sub-theme 08: Institutions and knowledge: The role of materiality, Jul. 2-4, 2009, Barcelona.
- C65. Taminiou, Y., **Lefsrud, L.M.**, & Suddaby, R. 2009. *Mind the Gap: Exploring the Regulator-Profession Interface in the Oil and Gas Industry*. EGOS, Sub-theme 09: Energizing energy markets: Institutions, devices and experiments, Jul. 2-4, 2009, Barcelona.
- C66. **Lefsrud, L.M.** 2009. *After the Goldrush: Creating Order from Chaos. Three studies on professionals' expertise claims, definition of resources, and agency*. EGOS, PhD Pre-Colloquium Workshop, Jun. 29 – Jul. 1, 2009, Barcelona.

- C67. **Lefsrud, L.M.** & Hughes, K. 2009. *Maintaining the Iron Cage: Reinforcing Professional Self-Regulation to Enable Innovation*. 5th Workshop on New Institutionalism in Organization Theory, Mar. 26-27, 2009, Naples.
- C68. **Lefsrud, L.M.** 2008. *Convenient Truths? Multiple Logics in the Petroleum Industry*. PhD Sustainability Academy – Building Sustainable Value Cross-Enterprise Leadership Centre, Ivey School of Business, University of Western Ontario, Sept. 26-30, 2008, London.
- C69. **Lefsrud, L.M.** & Suddaby, R. 2008. *Changing Logics of Self-Regulation in Professional Fields*. EGOS, Sub-theme 22 Institutional Work: Understanding How Actors Create, Maintain and Disrupt Institutions, Jul. 10-12, 2008, Amsterdam.
- C70. **Lefsrud, L.M.** & Suddaby, R. 2008. *Who Is Regulating Whom and How? Establishing Sites of Regulation for Outsourced Engineering*. Offshoring & Outsourcing: The Organizational and Geographical Relocation of High-Value Company Functions, SDA Bocconi School of Management, Apr. 23-24, 2008, Milan.
- C71. **Lefsrud, L.M.** 2008. *Convenient Truths? Multiple Logics in the Petroleum Industry*. 5th Annual Sprott Doctoral Symposium, Carleton University, Apr. 10-11, 2008, Ottawa. Runner-up best paper.

KEYNOTES – EXECUTIVE, PRACTITIONER AND PUBLIC PRESENTATIONS

- KN1. **Lefsrud, L.M.** 2022. *Twitter Analytics Tool*. Energy and Climate – West Coast Edition, Canadian Energy and Climate Nexus, 7 April, Vancouver and Online.
- KN2. **Lefsrud, L.M.** 2022. *Dams as a System*. New Zealand Society of Large Dams (NZSOLD) Symposium, 22 March 2022.
- KN3. **Lefsrud, L.M.** 2022. *Promoting Energy Transitions*. Advisory meetings with Deputy, Associate Deputy, and Assistant Deputy Ministers of Energy, Government of Alberta, February 2022.
- KN4. **Lefsrud, L.M.**, Hussain, A.*, Gholizadeh, N.*, Sattari, F.*, Musilek, P., Liang, H. 2021. *Creating System Resilience in Power Generation and Delivery*, Alberta Power Industry Consortium (APIC) workshop, 8 November 2021.
- KN5. Gibson, G., Vandenberghe, J. & **Lefsrud, L.M.** (moderator). 2021. *Engineering Community Benefit Agreements*. Sustainability Council Public Lecture Series, online 13 October 2021.
- KN6. **Lefsrud, L.M.** 2021. *Creative Sentencing: My Experience with Companies*. Occupational Health Psychology Summer Institute, Saint Mary's University, Halifax NS and online, June 23-25, 2021.
- KN7. **Lefsrud L.M.** & Sattari, F. 2021. *Using Artificial Intelligence, Machine Learning, and Data Fusion to Improve the Process Safety and Risk Management in Oil & Gas Industry*. Energy Safety Canada, May 27, 2021.
- KN8. **Lefsrud L.M.** 2021. *Harnessing data to drive safety performance*. Innovation in Construction Forum through the Construction Innovation Centre. Construction Owners Association of Alberta (COAA), Virtual Best Practices Conference on May 18-19, 2021.
- KN9. **Lefsrud L.M.** 2021. *DSIG Failure Modes Webinar: Visualizing Safety Management Systems*. CEATI International, online, 4 May 2021. The Centre for Energy Advancement through Technological Innovation (CEATI) is a user-driven organization committed to providing technology solutions to its electrical utility participants, who are brought together to collaborate and act jointly to advance the industry through the sharing and developing of practical and applicable knowledge. The Dam Safety Interest Group (DSIG) is composed of dam owners who jointly sponsor research & development projects designed to help assess and improve the safety of dams. Today, the DSIG is represented internationally by participants from Canada, the United States, Australia, New Zealand, Sweden, France, the United Kingdom, and Germany.
- KN10. **Lefsrud L.M.** 2021. *Innovation and Sustainability*. Aalto University, Helsinki Finland, PHYS-E0582 Art of Nanotechnology in Energy Conversion & Storage (3 ECTS). 31 March 2021.
- KN11. **Lefsrud, L.M.** 2021 *Hidden Hazards and Blind Spots Workshop*. Canadian Society of Safety Engineers (CSSE), online workshop, 17 March 2021. CSSE is Canada's largest national and most

- established professional organization for health and safety practitioners. It has over 4,000 members across Canada, the United States, and around the world working together to enhance the health, safety, and environmental profession.
- KN12. Eckert, H. & **Lefsrud, L.M.** 2021 *Improving OHS performance with OHS and environmental creative sentencing spillovers*. Alberta Occupational Health and Safety Futures Webinar. 4 March 2021.
- KN13. Belas, G. & **Lefsrud, L.M.** (moderator). *Bridging The Gender Gap with Design: How UN Development Does It*. Sustainability Council Public Lecture Series, online 24 February 2021.
- KN14. **Lefsrud, L.M.** 2020. *Resource and energy conversations*. Keynote speaker for Saskatchewan Women in Mining, Women in Nuclear (WIM-WiN), meeting online September 25, 2020.
- KN15. **Lefsrud, L.M.** 2020. *Power and Influence: Expanding our understanding and use of these*. Keynote speaker for Canadian Engineering Education Association (CEEA) -ACEG Sustainable Engineering Leadership and Management, meeting online September 17, 2020.
- KN16. **Lefsrud L.M.** 2020. *Heated Atmosphere: Organizational Emotions and the Field Structuring in Online Climate Change Debate*. Public Lecture, School of Engineering, University of California, Merced, online September 11, 2020.
- KN17. **Lefsrud, L.M.** 2020 *Mapping energy conversations*. University of Alberta representative to the Ministers' Round Table in Energy for Canada-Alberta Collaboration on Oil and Gas Innovation, with Sonya Savage (Alberta Minister of Energy) and Seamus O'Regan (Minister of Natural Resources Canada), along with 50+ CEOs/VPs in the energy industry, 13 February, Calgary, Alberta.
- KN18. **Lefsrud, L.M.** 2020. *SDG 7: Clean and Renewable Energy – Taking a Systems Approach to Geothermal Energy*. Public Presentation for University of Alberta's International Week, Edmonton, February 3, 2020.
- KN19. **Lefsrud, L.M.** 2019. *Communicating Risks to Support Sustainability Discussions: Challenges in A Post-Truth Era*. Keynote, Canadian Heavy Oil Association, Fall Conference, Calgary, November 7, 2019.
- KN20. **Lefsrud, L.M.** 2019. *Enhancing Regulatory Effectiveness to Improve Corporate Performance*. Keynote to Legal Circle, monthly meeting of Provincial, Court of Queen's Bench, and Appeal Court judges, October 17, 2019.
- KN21. **Lefsrud, L.M.** 2019. *Communicating Risks*. Keynote, National Conference of the Canadian Dam Association, Calgary, October 9, 2019.
- KN22. **Lefsrud, L.M.** 2019. *Advanced technologies to depolarize energy dialogues*. Keynote, Energy Futures Lab: Energy.AI3, Calgary, October 1, 2019.
- KN23. **Lefsrud, L.M.** 2019. *Cutting-Edge Linguistic Methods*. Academy of Management, invited panelist Paper Development Workshop, Boston, August 12, 2019.
- KN24. **Lefsrud, L.M.** 2019. *Creative Sentencing: My Experience with Companies*. Alberta Justice Senior Leadership Retreat with prosecutors and investigators for OHS and Environmental Offenses, Edmonton, June 25, 2019.
- KN25. **Lefsrud, L.M.** 2019. *Safety Moment*. Suncor Senior Management Contractor Safety Roundtable (40 CEOs and VPs for Suncor and their contractors/suppliers), Ft. McMurray, May 27, 2019.
- KN26. **Lefsrud, L.M.** 2019. *Hidden Hazards and Blind Spots*. Workshop, Construction Owners' Association of Alberta (COAA) Best Practices Conference, Edmonton, May 9-10, 2019.
- KN27. **Lefsrud, L.M.** 2019. *Role of AI in Humanities and Ethics*, Invited Panelist, Canadian Conference in Electrical and Computer Engineering, Edmonton, May 6, 2019.
- KN28. **Lefsrud, L.M.** 2019. *Sustainable Development and Risks Management for Geothermal Energy Development*. Alexis Nakota Sioux Band Council, Alexis Nakota Sioux Nation, May 1, 2019.
- KN29. **Lefsrud, L.M.** 2019. *Sustainable Development and Risks Management for Geothermal Energy Development*. Ross River Dene Council, Ross River Yukon, April 2, 2019.

- KN30. Lefsrud, L.M.** 2019. *Communicating Risks to Support Sustainability Discussions: Challenges in a Post-Truth Era*. Dow Elements of Sustainability Series. Available online at: <https://consumer.dow.com/en-us/who-we-are/sustainability/elements-of-sustainability-2019.html>
- KN31. Lefsrud, L.M.** 2019. *Just don't call it climate change*. Keynote, Alberta Institute of Agrologists, Annual Conference, Banff Centre for Leadership, March 29, 2019.
- KN32. Lefsrud, L.M.** 2019. *The Information Environment: Media framing of agriculture and climate change*. A Workshop on Climate Change Mitigation in Canadian Agriculture: Integrating recent farm behaviour research into policy, Canadian Agricultural Economists Society, Ottawa, February 13, 2019.
- KN33. Lefsrud, L.M.** 2019. *Keynote*. Student Sustainability Summit, University of Alberta, Edmonton, February 2, 2019.
- KN34. Lefsrud, L.M.** 2019. *The Diversity Challenge*. Consulting Engineers of Alberta Executive Meeting, Edmonton, January 23, 2019.
- KN35. Lefsrud, L.M.** 2019. *How can we better equip organizations to 'see', prioritize, and proactively manage risks?* University of Alberta Risk Symposium, Lister Hall, University of Alberta, Edmonton, January 15, 2018.
- KN36. Lefsrud, L.M.** 2018. *The Diversity Challenge*. University of Alberta Alumni Association, Lister Hall, University of Alberta, Edmonton, December 12, 2018.
- KN37. Pope, G., Lefsrud, L.M., & Oliver, M.** 2018. *Canadian Workplace Culture: Human Rights Issue or Essential Competency?* APEGA Board of Examiners meeting, Edmonton, December 7, 2018.
- KN38. Lefsrud, L.M.** 2018. Panel speaker, *NextGen Speaker Series – Women at Work: How to Get In and Stay Ahead*. Edmonton City Hall, November 3, 2018.
- KN39. Lefsrud, L.M., Baker, K., Zettl, J., Macciotta, R., & Hendry, R.** 2018 *Communicating risks across organizations and to contractors*. Environment, Health & Safety, Risk Management Services, University of Alberta. 26 September 2018.
- KN40. Lefsrud, L.M., Baker, K.E.,* & Zettl, J.,*** 2018. *Protecting workers From Ground Hazards by Enhancing Hazard Identification and Management tools*. Enform Petroleum Safety Conference, Banff, May 1-3, 2018.
- KN41. Lefsrud, L.M.,** 2017. *Re-focusing on risk. How can we better equip companies to 'see', prioritize, and proactively manage risks?* Confederation of Alberta Faculty Associations (CAFA) Distinguished Academic Early Career Award, Gala Presentation, September 14, Edmonton.
- KN42. Meyer, R.M., Oberg, A., & Lefsrud, L.M.** 2017. *Heated Atmosphere: Organizational Emotions and Field Structuring in Online Climate Change Debates*. Scandinavian Consortium for Organizational Research (SCANCOR) / Stanford University Symposium on Institutional Analysis 2017, Public Morning Lectures, September 11, Vienna.
- KN43. Lefsrud, L.M., Farjoo, A*, Pennetta de Oliveira, L.*, Caldera, A.,* & Esmaeeli, N.*** 2017. *Safety Maturity Curve: Findings from Industry Perception Survey*. Construction Owners Association of Alberta, Best Practices Conference, Edmonton Alberta, May 9-10, 2017.
- KN44. Lefsrud, L.M.** 2017. *Re-imagining Energy: How emotion has shifted energy conversations*. Keynote speaker, Fuse Collective Gala student fundraiser, Calgary Alberta, January 26, 2017.
- KN45. Lefsrud, L.M. & Winkel, G.** 2016. *Risk Management in a large industrial work place: Occupational health and safety in the oil sands*. National Research Council and Transport Canada Risk Engineering Workshop, Application of Risk Engineering for Transportation and Industries Managing Linear Infrastructure. National Research Council Canada, November 8, 2016.
- KN46. Lefsrud, L.M., Gehman, J., & Umme, M.*** 2016. *Analyzing WCB data to assess the effectiveness of education initiatives and financial incentives in reducing future claims rates*. Safety Committee Meeting, Construction Owners Association of Alberta. Edmonton, October 5, 2016.
- KN47. Lefsrud, L.M., Gehman, J., & Umme, M.*** 2016. *The value of shame: Research that supports the concept of shaming and the need to include a rehabilitation story*. Creative Sentencing Workshop, Alberta Justice. Edmonton, September 29, 2016.

- KN48. **Lefsrud, L.M.** & Gehman, J. 2016. *Risk Worth Taking? Revisiting how 'Acceptable Risk' Becomes Defined*. Oil Sands & Heavy-Oil Workshop: Furthering the Collaborations & Sharing the Learnings. CSPG/AAPG, Calgary, June 19, 2016.
- KN49. **Lefsrud, L.M.**, Westbury, C. & Hollis, G. 2016. *Acceptable risks? The role of traditional and social media in resource conversations*. Consulting Engineers of Alberta AGM, Calgary, May 18, 2016.
- KN50. **Lefsrud, L.M.**, Westbury, C. & Hollis, G. 2016. *Acceptable risks? The role of traditional and social media in resource conversations*. Association of Alberta Forest Management Professionals, Rocky Mountain House and Edmonton, April 11 & 13, 2016.
- KN51. **Lefsrud, L.M.**, Westbury, C. & Hollis, G. 2016. *Acceptable risks? The role of traditional and social media in resource conversations*. Strategy and Market Access, Alberta Energy, February 25, 2016.
- KN52. **Lefsrud, L.M.**, Westbury, C. & Hollis, G. 2016. *Acceptable risks? The role of traditional and social media in resource conversations*. Enbridge Research in Action Seminar, Calgary, April 7, 2016.
- KN53. **Lefsrud, L.M.**, Westbury, C. & Hollis, G. 2016. *Creating a Basis for Genuine Dialogue: Phase I Report*. Guest Speaker, Alberta Chamber of Resources, Board of Directors meeting, Calgary, October 15, 2015.
- KN54. **Lefsrud, L.M.**, Westbury, C. & Hollis, G. 2015. *A basis for genuine dialogue: Developing a Science-Based Understanding of Public/Industry Communication*. Alberta Chamber of Resources, Semi-Annual General Meeting, Calgary, June 18, 2015.
- KN55. **Lefsrud, L.M.**, Westbury, C. Hollis, G., Keith, J.* 2015. *Creating a Basis for Genuine Dialogue*. Guest Speaker, Alberta Chamber of Resources, Board of Directors meeting, Edmonton, April. 14, 2015.
- KN56. **Lefsrud, L.M.** 2013. *Ugly Duckling or Golden Goose? Knowledge to Succeed in a Changing Dialog*. Guest Speaker, Alberta Innovates and Climate Change Emissions Management Corporation, Board of Directors meeting, Edmonton, Feb. 19, 2013.
- KN57. **Lefsrud, L.M.** 2012. *Ugly Duckling or Golden Goose? Knowledge to Succeed in a Changing Dialog*. Keynote Speaker, Syncrude Research Conference, Edmonton and Ft. McMurray, Nov. 7 & 14, 2012.
- KN58. **Lefsrud, L.M.** 2012. *Graduate Student Panel Discussion*, Student Sustainability Summit, Sustain SU and the Office of Sustainability, University of Alberta, Jan. 28, 2012.
- KN59. **Lefsrud, L.M.** 2011. *Redefining the Bottom Line: Corporate Social Responsibility*. Invited panel member with Tyler Wry, Assistant Professor, Wharton School of Business, and Gord Winkel, Professor Industrial Safety and Loss Management and previous VP Syncrude. Engineers Without Borders, University of Alberta Chapter, Edmonton, Mar. 3, 2011.

TEACHING

- ENGG 200 Special Topics, winter term 2022 (36 students). (Overall the instructor was excellent 4.9/5.0, Faculty median = 4.34).
- CME 694/494 Advanced Topics in Quantitative Risk Assessment. Graduate Course, fall term 2021 (42 students). Chemical and Materials Engineering. (Overall the instructor was excellent 4.9/5.0).
- ENGG 200 Special Topics, winter term 2021 (36 students). (Overall the instructor was excellent 4.8/5.0).
- CME 483 Colloquium – Technical presentations. Fourth year course, winter term 2019 (29 students). Chemical and Materials Engineering. (Overall the instructor was excellent 5.0/5.0).
- CME 694/494 Advanced Topics in Quantitative Risk Assessment. Graduate Course, fall term 2020 (81 students). Chemical and Materials Engineering. (Overall the instructor was excellent 4.9/5.0).
- ENGG 200 Special Topics, winter term 2021 (63 students). (Overall the instructor was excellent 4.8/5.0).
- ENGG 490 Engineering Leadership Lab, fourth year undergraduate course for those with Business minor, winter term 2020 (7 students). Faculty of Engineering.

CME 694/494 Advanced Topics in Quantitative Risk Assessment. Graduate Course, fall term 2019 (31 students). Chemical and Materials Engineering. (Overall the instructor was excellent 4.3/5.0).

CME 481 Colloquium – Fourth year course, winter term 2019 (24 students). Chemical and Materials Engineering.

CME 483 Colloquium – Technical presentations. Fourth year course, winter term 2019 (21 students). Chemical and Materials Engineering.

CHE 312 Fluid Mechanics, third year undergraduate course, fall term 2018 (24 students). Chemical and Materials Engineering. (Overall the instructor was excellent 4.0/5.0).

CME 694 Advanced Topics in Engineering Safety and Risk Management. Graduate Course, winter term 2018 (32 students). Chemical and Materials Engineering. (Overall the instructor was excellent 4.8/5.0).

CME 481 Colloquium – Fourth year course, fall term 2017 (24 students). Chemical and Materials Engineering. (Overall the instructor was excellent 4.8/5.0).

ENGG 404 Engineering Safety and Risk Management. Fourth year course. Co-instructor, fall term 2017 (220 students in three sections), Chemical and Materials Engineering.

CME 694 Advanced Topics in Engineering Safety and Risk Management. Graduate Course, fall term 2016 (25 students). Chemical and Materials Engineering. (Overall the instructor was excellent 4.8/5.0).

Sustainable Mining Workshop, Congreso Colombiano de Minería. Medellin, Colombia, 23-24 May 2016.

CME 483 Colloquium – Technical presentations. Fourth year course, winter term 2016 (25 students). Chemical and Materials Engineering. (Overall the instructor was excellent 4.8/5.0).

ENGG 404 Engineering Safety and Risk Management. Fourth year course. Co-instructor, fall term 2015 (186 students in two sections), Chemical and Materials Engineering.

SMO 441 Strategy: Cooperation and Competition, fourth year strategy capstone course. Lecturer, fall term 2011 (16 students), Alberta School of Business. (Overall the instructor was excellent 4.6/5.0).

SMO 301 Introduction to Strategic Management and Organization Design, third year undergraduate course. Lecturer, winter term 2010 (36 students), Alberta School of Business. (Overall the instructor was excellent 4.5/5.0).

STUDENT SUPERVISION

Name, Thesis Title	Year Admitted	Year Graduated	Degree	% Supervision / Joint with	Present Position
Fereshteh Sattari, <i>Process Safety Management Systems, Bayesian Network Analysis, Safety Culture</i>	Sep-19	Sep-21	PDF	100%	Research Associate in my group
Afroz Farjoo, <i>COAA Safety Culture Survey</i>	Jan-17	Apr-17	PDF	100%	Clean Technologies Industry Development Officer - Alberta Jobs, Economy and Innovation, Govt of AB
Post Doctoral Fellows = 2					
Hamidreza Mohammadhossseinzadeh Golabchi	Sep-2022		PhD	20% with Yasser Mohamed, CivE	Enrolled full-time.
Mona Ahmadira Rad, <i>Examining Human Factors in Rail Research: Implications for rail regulation in Canada</i> . Mona won the Art Worth Memorial Scholarship in Engineering	Jan-20		PhD	50% / with Michael Hendry, CivE	Enrolled full-time.

Jian Tang, <i>WCB claims data analysis</i>	Sep-19	Apr-20	PhD	80% / with Joel Gehman, Business	She withdrew from the PhD program
Michelle Naef, <i>Taming the entropy of organizations: Designing process hazard information systems for sustainable process facilities</i> . Michelle won a national award from Engineers Canada	Jan-19		PhD	80% / with Dave Shook, ShookIOT	Enrolled full-time
Hadiseh Ebrahimi, <i>Human Factors associated with railroad incidents</i> . Hadis won the Art Worth Memorial Scholarship in Engineering	Jan-19		PhD	50% / with Renato Macciotta, CivE	Enrolled full-time
Lei Emma Jing, <i>Using Competency Management to Enhance Safety Culture in Industrial Construction</i>	Sept-18		PhD	20% / with Ian Gellatly, Business	Enrolled full-time.
Vivian Giang, <i>New Approaches to communities, communication, and consultation: Building future energy systems in Canada in the age of reconciliation</i> . Vivian has won 20+ scholarships, including a Bombardier scholarship and a Fulbright Fellowship.	Sep-18		PhD	50% / with Andie Palmer, Anthropology	Enrolled full-time
Cindy Dong, <i>Using BP Neural Networks to Prioritize Risk Management Approaches for China's Unconventional Shale Gas Industry</i>	May-17	Jun-17	PhD	80% for research project / with Joel Gehman, Business	Arizona State University
Yuanyuan Ning, <i>Examining the effectiveness of creative sentences on reducing WCB claims rates</i>	Apr-16	Aug-16	PhD / GRA	50% with Heather Eckert, Econ	Withdrew from the PhD program
Nicholas Bak, <i>Industry-University collaboration networks for Microbially Influenced Corrosion</i>	Sep-16	Jan-20	PhD	50% / with John Wolodko, ALES	Withdrew from the PhD, now at OEM Remanufacturing
PhD students = 10					
Joshua Atsegbua	Jan-22		MSc	100%	Enrolled full-time.
Abbey Abella Nosa	Jan-22		MSc	20% with Yasser Mohamed, CivE	Enrolled full-time.
Candelario Gutierrez Gutierrez	May-20	Dec-21	MSc/GRA	100% for research project	CECN/Mitacs
Andrea Whittaker	May-20	Dec-21	MSc/GRA	100% for research project	CECN/Mitacs
Anuar Caldera, <i>COAA Safety Culture Survey</i>	Jan-17	May-17	MSc/ GRA	100% for research project	Inter Pipeline
Leonardo Pennetta de Oliviera, <i>COAA Safety Culture Survey</i>	Jan-17	May-17	MSc/ GRA	100% for research project	Kerry Brazil
Neil Anderson, <i>Blended Learning for Engg 404</i>	May-16	Aug-18	MSc/ GRA	100% for this project	EVRAZ North America
Jeff Keith, <i>Mapping Energy Conversations</i>	May-15	Sep-15	MSc/ GRA	50% / with Chris Westbury Psych	Consulting Psychologist
Parth Rana, <i>Evaluating Automated Machine Vision Inspection Systems (AMVIS) in Railways</i>	Jan-2022		MSc	50% / with Michael Hendry	Masters student

Amanda Sistilli, <i>Integrating Management Systems: Process Safety with Enterprise Risk Management</i>	Jan-19		MSc	100%	Enrolled part-time, working for Enbridge pipelines
Nafiseh Esmaeeli, <i>Modelling release scenarios of special dangerous goods from railway operations</i>	Jan-19		MSc	50% / with Renato Macciotta	Maternity leave Oct-20 to Sept-21
Daniel Schiffner, <i>Re-purposing Old Oil and Gas Wells for Geothermal: Turning a Liability into an Asset</i>	Sep-18	October 2020	MSc	50% / with Vic Adamowicz ALES	Nichols Applied Management
Daniel Kurian, <i>Using Machine Learning and Keyword Analysis to Analyze Incident Reports and Reduce Risk in Oil Sands Operations</i>	May-18	Mar-20	MSc	95% / with Yongsheng Ma MecE	Alberta Securities Commission
Kathleen Baker, <i>Protecting Worker Safety in Alberta by Enhancing Field Level Hazard Assessments and Training for Ground Hazards Associated with Tailings Facilities, Dams, and Systems</i>	Sep-16	Mar-19	MSc	100%	Suncor
Munira Umme, <i>Effect of Regulatory Prosecution to Improve Workplace Safety in Alberta</i>	Jan-16	Oct-18	MSc	100%	Suncor
MSc / RA and MSc students = 14					
Eliza Dhukal,	Apr-22		MEng	100%	
Ibrahim Moraich, <i>Occupational health and safety hazards in wastewater treatment plants</i>	Dec-21		MEng, Chemical Engineering	100%	FourQuest Energy
Naomi Grammatico, <i>Comparative analysis of Process Safety Management (PSM) in North America and Europe</i>	Dec-21		MEng, Chemical Engineering	100%	
Humna Irshad, <i>Automated Machine Vision Inspection Systems (AMVIS) in Railways – Reliability Assessment Study</i>	Dec-21		MEng, Chemical Engineering	100%	Technical writer, MecE
Dennis Li, <i>Mandates for Machines: The Demand for Regulation of Artificial Intelligence</i>	May-21	Dec-21	MEng, Chemical Engineering	100%	Enrolled full-time
Joseph Chuwa, <i>Management Commitment to Safety Culture</i>	May-21	Dec-21	MEng, Chemical Engineering	100%	Bechtel Construction
Rami Ghazali, <i>Process Hazard Analysis (PHA) method selection for different levels and phases of pipeline projects: Proactive measures for safer designs</i>	May-21	Dec-21	MEng Engineering Management	100%	TC Energy
Rami Alameddine, <i>Conducting Feature Importance and Investigating the Correlation between Weather Features and Power Outages</i>	Feb-21	Jul-21	MEng Engineering Management	100%	Kleinfelder
Brian (Bochao) Zeng, <i>Application of Inherent Safe Design principles for Brownfield Projects within Refining and Petrochemical Industry</i>	Feb-21	Jul-21	MEng Chemical Engineering	100%	Suncor
Matthew Schriber, <i>How can the latent causes and controls of low probability, high consequence events be best identified to characterize the associated risks?</i>	Sep-20		MEng, Chemical Engineering	100%	Enrolled full-time
Elizabeth Rose Marie Charuvil, <i>How can Predictive Index be used as a reinforcement to enhance team performance?</i>	Sep-20		MEng, Chemical Engineering	100%	Enrolled full-time
Loyal Alabour, <i>topic being finalized</i>	Sep-20		MEng	100%	Enrolled full-time

Ariel Krista Couture, <i>Effectiveness of Controls in Limiting Occupational Exposure to Crystalline Silica as Quartz Within the Road Construction Industry</i>	Sep-20	Jul-21	MEng Engineering Management	100%	Standard General
Alice Gu, <i>Impacts of project size, use of contractor vs. employee, and work location on safety, communication, and alcohol & drug abuse in industrial construction</i>	Feb-21	Jul-21	MEng Engineering Management	100%	AECOM
Chunchi (Justin) Guo, <i>Improvement of Construction Safety from Aspects of Communication, Risk Management, and Work Planning: A Literature Review</i>	Sep-20	Jul-21	MEng Engineering Management	100%	Interviewing for various jobs.
Harshali Parab, <i>Enhancing Oil and Gas Industry Safety Through Asset Integrity Management.</i>	Sep-20	Jul-21	MEng Chemical Engineering	100%	TCMPL – Tecnimont Private Ltd for Piping Layout
Nyssa Moore, <i>The gaps in the current Canadian SMS regulations and operating rules</i>	Sep-20	Jul-21	MEng Chemical Engineering	100%	Summit Inspection Services
Joby Chacko, <i>Enhanced Process Safety in Hydrocracker Units In Oil Refineries</i>	Sep-20	Apr-21	MEng Chemical Engineering	100%	Bahrain Petroleum Company
Ryan Cusveller, <i>Increasing Industrial Construction Safety Performance Using Leading Indicators</i>	Sep-20	Jul-21	MEng Engineering Management	100%	SMA Consulting
Tahami Hasan, <i>Oil and Gas Clean Technology Program Performance Study Framework Evaluations</i>	Sep-20	Jul-21	MEng	100%	Interviewing for various jobs.
Shruti Singh, <i>Enhancing Safety Culture of an Organization Through Focus on Communication and Psychological Safety</i>	Jan-20	Apr-20	MEng	100%	Interviewing for various jobs.
Yewei (Janet) Ni, <i>Conducting a Comparative Study to Improve Process Safety Management Performance in Strathcona County</i>	Jan-20	Apr-20	MEng	100%	Janet got a consulting engineering job in Hong Kong.
Aadil Khan, <i>Examining the evaluation of cumulative effects in land use planning and emergency response in Strathcona County</i>	Jan-20	Dec-20	MEng	100%	Interviewing for various jobs.
Sanah Dar, <i>Process Hazard Assessment of Urea Storage Tank</i>	May-19	Oct-19	MEng	100%	Emissions Reduction Alberta
Honey Bhatia, <i>Quantitative risk analysis for road driving using fuzzy logic and the implementation of a layer of protection analysis (LOPA) integrated with “vision- zero” quality management strategy</i>	Jan-18	Aug-18	MEng	90% / with Stanislav Karapetrovic, MecE	Honda of America Mfg., Inc
Abhishek Karole, <i>Flare Dispersion Analysis of Flare Gas during Flame Out Situation and Flue Gas after Combustion</i>	Jan-18	Aug-18	MEng	100%	Process Ecology
Ifema Odeluga, <i>Process Safety Management: Creating Quantitative Risk Assessment Scenarios</i>	Jan-17	Dec-17	MEng	100%	City of Edmonton
Anne Nkoro, <i>Implementing Enhanced Performance Based Safety Management System: A Canadian Railway Industry Perspective</i>	Jan-18	Apr-19	MEng	90% / with Stanislav Karapetrovic, MecE	CP Distributors
Dhaval Shah, <i>Safety Aspects of Floating LNG: Preliminary Inherent Safer Design of Critical Processes of Floating LNG</i>	Jan-17	May-17	MEng	100%	Saudi Aramco

Varun Sharma, <i>Quantitative risk assessment guidelines for gasoline & ammonia</i>	May-17	Aug-17	MEng	90% / with John Doucette	Canadian National Railway
Aysha Hannan, <i>Impact of organizational safety culture and individual safety behavior on safety management for the railway industry in Canada</i>	Jan-17	Dec-17	MEng	100%	KuwaitJobs
Amélie Shawcross, <i>Improving Workplace Safety in the Alberta Healthcare Industry through High Reliability Organization and Safety Culture Principles</i>	Jan-16	Aug-16	MEng	100%	PhD in Environmental Engineering, University of Ottawa
MEng students = 31					
Katherine Mae Patenio, <i>Mapping Energy Conversations</i>	May-21	Aug-21	BSc	100%	Mozilla
Sua Lee, <i>Equipping organizations to see unforeseen hazards by enhancing safety culture</i> , Dean's Research Award	Jan-20	Apr-20	BSc	100%	Nutrien
Kabir Nadkarni, <i>Energy Transitions for Oil to Geothermal</i> . Kabir won 20+ scholarships, including the APEGA medal for citizenship and an Aga Khan International Fellowship.	May-19	Apr-20	BSc	80% / with Jonathan Banks in EAS	Accepted to Columbia University Fall 2020, deferred to Fall 2021
Yu Zhu, <i>Mapping Conversations about Alberta's Resource Industries</i>	May-17	Aug-17	BSc	100%	Microsoft
Andrea Miller, <i>Farmers' Climate Change Practices</i>	May-18	Sep-18	BSc	100%	Doing her MSc in ALES
Daanish Hamid, <i>Field Level Hazard Assessments and Training for Ground Hazards Associated with Tailings</i>	May-17	May-18	BSc	100%	Candu Energy, Division of SNC Lavalin
Megha Sharma, <i>URI Diversity in Engineering</i>	Sep-17	Dec-17	BSc	50% / with Ania Ulrich	Suncor
Juliana Dobbie, <i>Dean's Research Award Diversity in Engineering</i>	Jan-17	Apr-17	BSc	50% / with Ania Ulrich	Enbridge
Natasha Pye, <i>Dean's Research Award Diversity in Engineering</i>	Jan-17	Apr-17	BSc	50% / with Ania Ulrich	Monitor Deloitte
Kostyantyn Guzha, <i>Mapping Energy Conversations</i>	Jan-16	Aug-16	BSc	50% / with Chris Westbury	MSc in Comp Science, U. of Alberta
Udey Rishi, <i>Mapping Energy Conversations</i>	Nov-15	Apr-16	BSc	50% / with Chris Westbury	Shopify
Allison Moore, <i>Mapping Online Climate Change Debate</i>	Nov-15	Sep-16	BSc	100%	MSc in Occupational Therapy
Ana Kovic, <i>Mapping Online Climate Change Debate</i>	Nov-15	Sep-16	BSc	100%	Medical Student, University of Pavia
Janel Comeau, <i>Mapping Energy Conversations</i>	May-15	Aug-15	BSc	50% / with Chris Westbury	Veterinary Nurse
BSc students = 14					

EXAMINING COMMITTEES

1. Candelario Gutierrez Gutierrez, SoDa-TAP: A Data Platform for Social Media Analysis, MSc in Computer Science, 9 May 2022
2. Angeline Letourneau, *Social Media, Identity, and Environmentalism*, Specialization Exam, PhD Environmental Sociology, University of Alberta, 8 October 2021.

3. Andrea Miller, *Building Futures: Indigenous-led Energy Transitions in Alberta*, MSc in Rural and Environmental Sociology, University of Alberta, 29 September 2021.
4. Rodrigo Valadeo, *Data Science, Artificial Intelligence, and Other Tales: How Novel Organizations Promote Their Innovations Through Categories as Dynamic Accomplishments*, Candidacy Exam, PhD in Strategy, Entrepreneurship & Management, University of Alberta, 19 July 2021.
5. Haley Schaffer, *Risk Management for Tailings Dam Safety: Considerations for Long-term and Post-Closure Timelines*, Candidacy Exam, PhD in Geotechnical Engineering, University of Alberta, 3 March 2021.
6. Jordan Phillips, *Public Perception of Hydraulic Fracturing and the Oil and Gas Industry in Western Canada: What the Frack is Going On?* MSc in Physics, University of Alberta, 13 January 2021.
7. Anagha Kiran, *Investigation of the hydrocarbons in the naphthenic and paraffinic froth treatment tailings*, MSc Chemical Engineering, University of Alberta, 29 June 2020.
8. Jonathan Backs, *Improving train detectability to reduce collisions with wildlife*, Interdisciplinary PhD in Materials Engineering and Ecology, University of Alberta, External Reviewer for Final Defense Committee, 24 January 2020.
9. Laura Lucier, *A Human Reliability Assessment Approach to Software Feature Elicitation and Valuation: Automation of NASA's Robotics Mission Design Process*, PhD Mechanical Engineering, University of Calgary, External Reviewer Final Defense Committee, 26 November 2019.
10. Huanan Li, *Incorporating climate change uncertainty into transportation infrastructure investment decisions*, MSc Civil Engineering, University of Alberta, Final Defense Committee, 13 September 2019.
11. Eder Villa Coronel, *Performance evaluation of siding materials subjected to radiant heat loads: Structural protection in the Wildland Urban Interface*, MSc Mechanical Engineering, University of Alberta, Final Defense Committee, 27 August 2019
12. Fereshteh Sattari, *Understanding the Chemistry of Conversion of Model Compounds and Biomass by Hydrous Pyrolysis Based on Spectroscopic Data Using Data Fusion, Data Mining, and Chemometrics*, PhD Chemical Engineering, University of Alberta, Final Defense Committee, 4 June 2018.
13. Fereshteh Sattari, PhD Chemical Engineering, University of Alberta, Candidacy Committee, 22 January 2018.
14. Mohammad Raoufi, *Fuzzy Agent-Based Modeling of Construction Crew Motivation and Performance*, PhD Construction Management, University of Alberta, Final Defense Committee, 16 January 2018.
15. Sally Mattar, *Real Options Decision Framework for Research and Development: A Case Study on a Small Canadian High-Technology Start-Up*, MSc Engineering Management, University of Alberta, Final Defense Committee, 28 August 2017.
16. Lina Yanez Jaramillo, PhD Chemical and Materials Engineering, University of Alberta, Candidacy Exam, 9 May 2017.
17. Ozgur Bozan, *Framing Climate Change Discourse in Turkish Media*, MSc Rural Sociology, University of Alberta, Final Defense Committee. 16 January 2017.
18. Rosalynn Loerke, *Pressure Filtration of Oil Sands Mature Fine Tailings*, MSc Chemical and Materials Engineering, Final Defense Committee. 29 November 2016.
19. Lawrence Ejike, *Role of Fine Solids in Solvent Recovery from Reconstituted Alberta Oil Sands Gangue*, MSc Chemical and Materials Engineering, University of Alberta, Final Defense Committee, 31 August 2016.
20. Christina Seidel, *The Application of Life-Cycle Assessment within a Public Policy Framework - Theory and Reality*, PhD Engineering Management, University of Alberta, Final Defense Committee, 14 December 2015.

21. Andrew Herbst, *A New Work Package Based Project Engineering Management Method and its Integration with AWP, PMBOK, and ISO 9001*, PhD Engineering Management, University of Alberta, Candidacy Committee, 5 November 2015.

ACADEMIC ASSOCIATIONS AND ACTIVITIES

Editor, *Industry and Innovation* (impact factor = 3.424), special issue on “Leveraging Culture to Cultivate Green Innovation Across and Within Organisations”.

Advisor to the Peter Lougheed Leadership College, August 2021 - August 2024.

Editorial Board: *Journal of Loss Prevention in the Process Industries*, June 2021 - .

Department Representative: Faculty of Engineering Executive Coordinating Committee (ECC) and Academic Appeals Committee, July 1, 2019 - June 30, 2022.

Member: University of Alberta Sustainability Council’s Research Steering Committee, June 30 2019 -

Reviewer: United States National Science Foundation, 2019 - .

Co-Chair: International Sociology Association, XIX World Congress of Sociology, RC24 Environment and Society Session, July 15 - 25, 2018, Toronto.

Chair: Canadian Society of Chemical Engineers (CSChE) and Canadian Institute of Chemistry (CIC) Annual Conference, Process Safety and Risk Management Division, Edmonton, October 22 - 25, 2017.

Member: Canadian Society of Chemical Engineers (CSChE) and American Society of Engineering Educators (ASEE), 2016 -, Canadian Institute of Mining.

Member: Association of Academic Staff University of Alberta, Equity Committee, August 2016 - .

Organizer: Academy of Management Annual Meeting 2014, “Visuality: Beyond the Power of Words” Paper Development Workshop, OMT and CMS Divisions; and “Researching the Organization of Energy: Dirty, Clean and In-Between” Paper Development Workshop, ONE, OMT and BPS Divisions, Philadelphia, Aug. 1 - 5, 2014.

Member: Academy of Management (AOM) since 2007. Organization and Management Theory (OMT) Division, Business Policy and Strategy (BPS), and Organizations and Natural Environment (ONE) Division. European Group of Organizational Studies (EGOS), since 2007. Administrative Sciences Association of Canada (ASAC), since 2007. Network for Business Sustainability (NBS), Society of Business Ethics (SBE), and Academy of International Business (AIB).

Reviewer: Administrative Science Quarterly, Academy of Management Journal, Academy of Management Review, Organization Studies, Organization, Journal of Management Studies, since 2010.

Reviewer: Academy of Management conference for Organization and Management Theory (OMT) Division, Organizations and Natural Environment (ONE) Division, and Social Issues in Management (SIM) Division since 2007. Awarded ‘Best Reviewer’ in SIM Division for 2011.

Reviewer: ASAC Organizational Theory (OT) Division.

Advisor: Recognized opportunity and assisted the Alberta School of Business’ executive education team with the development of *Business Leadership for Technical Professionals* programme in 2010.

School of Business Nominee: Organizational Management Theory and Management and Organizational Cognition Doctoral Consortium, San Antonio, Aug. 11 - 12, 2011; Social Issues in Management Doctoral Consortium, Academy of Management Conference, Montreal, Aug. 5 - 6, 2010; Organizations and Natural Environment Doctoral Consortium, Academy of Management Conference, Aug. 8 - 9, 2008, Anaheim.

Selected Participant: ETH PhD-Academy on *Sustainability and Technology, Climate Change Mitigation and Adaptation: An Organizational Science Perspective*, Zurich, Jan. 16 - 21, 2011 (only 16 doctoral students chosen internationally).

Selected Participant: PhD Sustainability Academy - Building Sustainable Value Cross-Enterprise Leadership Centre, Ivey School of Business, University of Western Ontario, Sept. 26 - 30, 2008.

PROFESSIONAL ACTIVITIES AND GOVERNANCE

Regulation of the Professions

Public Member: Registration Committee for the Institute of Chartered Accountants of Alberta (ICAA), two terms, 2005 - 2009.

Professional Engineer with the Association of Professional Engineers and Geoscientists of Alberta (APEGA) since 1997. Co-chairing task force to rewrite *Environmental Practice Guideline*.

Sustainability and Diversity

Coach: Avatar Innovations, Nature-based solutions stream, January-March 2022. My team won their stream. Accelerator to support energy transitions, patterned after Richard Branson's X-Prize.

<https://www.avatarinnovations.energy/>

Scientific Committee Member: GRONEN Research Group, an international network of scholars researching various dimensions of management and the natural environment, who aim at contributing to societal progress in a world of rapid, complex, and non-linear environmental change, May 2020 - .

Hosted NSERC Discovery EDI workshops: 1) for Engineering on 26 October 2020, 2) for the Faculties of Science & Engineering on 19 February 2021, and 3) Faculties of Science, Engineering & ALES on 13 September 2021.

Advisor to the Board: Ontario Power Generation (OPG) to enhance their dam safety program and enterprise risk management more broadly since January 2021. OPG operates 241 hydroelectric dams and 2 nuclear power stations.

Advisor to Government of Alberta's *Bill 36: Geothermal Resource Development Act (GRDA)* (promulgated December 2020) and the associated *Geothermal Resource Development Regulations and Directives*

Coach: Avatar Innovations, Geothermal stream, January-March 2021. Accelerator to support energy transitions, patterned after Richard Branson's X-Prize. <https://www.avatarinnovations.energy/>

Internal Reviewer: CFRF Grant Applications, University of Alberta.

Advisor: Giant Mine Oversight Board. Advisor: Alberta Chamber of Resources, Dam Integrity Advisory Committee.

Member: Construction Owners Association of Alberta, Safety Committee, 2015-2020.

Co-chair: Canadian Coalition of Women in Engineering Science, Trades and Technology (CCWESTT) 2018, Biennial Conference, Edmonton, May 31-June 2, 2018. The conference brought together national and international experts, employers, CEOs/presidents, government representatives, and women in STEM at all phases of their career lifecycle to share knowledge and experience around diversity and inclusion. We had a total of 579 conference attendees. For this we won an APEGA Summit Award.

Task Force Member: Alberta Environment, Institute of Chartered Accountants of Alberta, and APEGA – to review the Specified Gas Emitter Regulations (that regulate greenhouse gas emissions in Alberta) to improve rigour of emission verification and auditing, report recommendations in December 2011, revise guidance document in 2012, and consider specialist certification in 2013.

Advisor: Diversity in Engineering – student led task force 2016 -

Invited Participant: Trottier Energy Transformation Project, July 2016, Calgary. Defining Regulatory Excellence, Alberta Energy Regulator, May-November 2015. Oilsands Metrics Thought Leader Forum on Oilsands Performance Metrics: Audiences and Design Principles, May 2-3, 2011, Calgary, Alberta.

Advisor: Engineers Canada (national accreditor of engineering) to develop a national senior undergraduate/ graduate level course in climate change adaptation and mitigation. By changing the emphasis, this course can be adapted for undergraduate/graduate students in other technical professions and in business. Advisor: APEGA to manage the Environment Committee and the Climate Change Adaptation Subcommittee, 2010-2011.

Member: Women's Executive Network (WXN) and Alberta Women Entrepreneurs (AWE), 2007-2015.

Executive Member: Association of Women in Engineering and Science (AWES) Edmonton Chapter, 1993-2002. Alberta Women's Science Network (AWSN) 1997-2002.

Invited Participant: Pembina Institute's Thought Leader Forum on Environmental NGO-Industry Collaboration, Nov. 14, 2006, Kananaskis, Alberta.

Vice-President: Canadian Coalition of Women in Engineering Science, Trades, and Technology (CCWESTT) 2008-2012, representing 20,000 individuals and 27 member organizations, regular board member since 2012. Vice President Canadian Centre for Women in Science Engineering Trades and Technology (WinSETT) 2010-2013. Received \$100,000 in federal and provincial funding in 2008, \$30,000 industry funding in 2009, \$180,000 in federal funding in 2010, \$60,000 industry funding and \$42,000 Killam Cornerstone Research Grant in 2012, and \$194,000 SSHRC partnership development grant in 2013. The WinSETT Centre is working in partnership with industry, government, academe, and community organizations to attract, retain, and promote women in SETT.

Chair: Public and Professional Affairs Committee, Women in Scholarship Engineering, Science and Technology (WISEST) and Advisory Board Member, 2007-2009. Led science experiments and activities at WISEST conferences for school girls 1991-2008.

Organizing Committee Member: 11th National Conference for the Advancement of Women in Engineering, Science, Trades and Technology, June 2006, Calgary.

Representative: APEGA at national meetings of Engineers Canada's Women in Engineering Advisory Group (WIEAG) and CCWESTT, 2002-2007.