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[journal article] Phillips CL, Bond-Lamberty B, Desai AR, Lavoie M, Risk D, Tang J, Todd-Brown K & Vargas R. (2016). The value of soil respiration measurements for interpreting and modeling terrestrial carbon cycling. *Plant Soil* 413: 1. April 2017.
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[journal article] Sizmur T, McArthur G, Risk D, Tordon R & O'Driscoll NJ. (2016). Gaseous mercury flux from salt marshes is mediated by solar radiation and temperature. *Atmospheric Environment* 153: 117-125.
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[conference paper] Risk D. (2017, June). *Fugitive and vented emissions from energy developments in Alberta, Canada: Lessons from extensive measurement campaigns*. Paper presented at the Transatlantic Knowledge Sharing Conference on Unconventional Hydrocarbons: Resources, Risks, Impact, and Research Needs, Amsterdam, Netherlands.

[conference paper] Risk D & O'Connell E. (2016, September). *Mobile Emissions Study Preliminary Results*. Paper presented to the Saskatchewan Ministry of Economy; SK energy regulators; Saskatchewan Research Council, Regina, SK.

[license issued] Emissions Attribution via Computational Techniques ("ExACT"). (8 February 2017). StFX signed a technology collaboration agreement with Altus Group for the exclusive worldwide commercialization usage rights of StFX's vehicle-based Emissions Attribution via Computational Techniques ("ExACT") truck-based gas leak detection technology that involves background compensation algorithms and geochemical markers. Altus Group's Geomatics division offers StFX's ExACT technology as a service for energy providers and regulators.

[industry report] Risk D. (2017). *Tundra Sinclair CO₂ Injection Pilot Project: MMV Soil Gas Sampling Report*, prepared for Tundra Oil and Gas. (42 pages).

[industry report] Risk D. (2017). *Tundra Sinclair CO₂ Injection Pilot Project: Formation Water Analysis*, prepared for Tundra Oil and Gas. (30 pages).

[industry report] Risk D. (2017). *Aquistore Project Summary Report 4*. Prepared for Petroleum Technology Research Center. (25 pages).

[industry report] Risk D. (2017). *Vehicle-Based Fugitive Emission Detection and Attribution Within Alberta Energy Developments, Final Report*. Prepared for the Petroleum Technology Alliance of Canada. (47 pages).

[industry report] Risk D. (2016). *Mobile Emission Surveys within the Glen Ewen/Oxbow Region of Saskatchewan, Final Report*. Prepared for the Saskatchewan Research Council. (30 pages).

[industry report] Risk D. (2016). *Fugitive and Vented Emission Surveying at Apache's Midale EOR Field, 2016 Mobile Survey Final Report*. Prepared for Apache Inc. (23 pages).

[industry report] Risk D. (2016). *Survey of Vermont Gas Natural Gas Systems*. Prepared for Vermont Gas. (37 pages).

[invited presentation] Risk D. (2017, August). *Research Mentoring and Lab Management*. StFX Teaching Retreat, Antigonish, NS.

[invited presentation] Risk D. (2017, June). *Fugitive and vented emissions from energy developments in Alberta, Canada: Lessons from extensive measurement campaigns*. Transatlantic Knowledge Sharing Conference on Unconventional Hydrocarbons: Resources, Risks, Impact, and Research Needs. Amsterdam, Netherlands.

[invited presentation] Risk D et al. (2017, May). *Emissions Detection and Attribution in the Upstream Energy Sector*. Carbon Assimilation Workshop, University of Toronto.

[invited presentation] Risk D. (2017, April). *Advances in Vehicle-Based Leak Detection Technologies*. Canadian Gas Association Operations, Engineering and Integrity Conference.

[invited presentation] Risk D. (2017, April). *Mapping Gas Variability for Energy Development Monitoring*. Canadian Gas Association Annual Meeting. Halifax, NS.

[invited lecture] Risk D. (2017, March). *Bench to Market: My Experience*. Saint Mary's University.

[invited presentation] Risk D. (2017, March). *In Pursuit of 'the other' Greenhouse Gas: Mapping Methane Emissions Across the Canadian Energy Sector*. Nova Scotia Institute of Science. Halifax, NS.

[invited presentation] O'Connell L & Risk D. (2017, March). *Emissions Detection and Attribution in the Upstream Energy Sector*. Meeting of the Alberta Energy Regulator Methane Technical Committee. Calgary, AB.

[invited presentation] O'Connell L. & Risk D. (2017, February). *Emissions Detection and Attribution: Bakken Applications*. Bilateral Can-AM Bakken Partnership Meeting. Calgary, AB.

[invited presentation] Risk D. (2016, December). *An Introduction to Vehicle-Based Fugitive Emissions Mapping*. Altus Geomatics Division. Skype.

[invited presentation] Risk D. & Nickerson N. (2016, December). *Spinoff Companies and Practical Applications of University-Company Collaborations*. Eastern Strait Regional Enterprise Network, Antigonish, NS.

[invited presentation] Risk D. (2016, November). *New technologies and methods for measurement and assessment of air impacts*. University of Calgary Tight Rock Roundtable, Calgary, AB.

[invited presentation] Risk D. (2016, October). *Upstream Fugitive Emissions Detection and Attribution*. Petroleum Technology Alliance of Canada. Calgary, AB.

[invited presentation] Risk D. (2016, September). *Fugitive and vented emissions inventory mapping projects, Environment and Climate Change Canada*. Skype.

[invited presentation] Risk D. (2016, September). *Mobile Emissions Study Preliminary Results*. Saskatchewan Ministry of Economy; SK energy regulators; Saskatchewan Research Council, Regina, SK.

[chair] Appointed Altus Group Chair in Emissions Research, St. Francis Xavier University, Antigonish, NS. 2017.

[supervisor] Atherton E. (2017). *Measurement of Methane Emissions from Natural Gas Infrastructure*. (Unpublished MSc thesis). St. Francis Xavier University.

[supervisor] MacKay K. (2017). *Fugitive and vented emissions surveying at the Weyburn CO₂-EOR oilfield, Saskatchewan, Canada*. [Unpublished MSc thesis] StFX University.

[supervisor] Klapstein S. (2017). *Rate determination of methyl mercury photodemethylation in Kejimikujik Lakes*. [Unpublished PhD thesis] Memorial University.

[supervisor] Spafford L. (2016). Department of Earth Sciences, St. Francis Xavier University, Antigonish, NS. [Outstanding Student Presentation Award recipient, American Geophysical Union.]

[supervisor] Taylor K. (2017). Department of Earth Sciences, St. Francis Xavier University, Antigonish, NS. [Science Atlantic Environment Conference, Undergrad Research Poster, Silver.]

[supervisor] Taylor K. (2017). Department of Earth Sciences, St. Francis Xavier University, Antigonish, NS. [St.FX Student Research Day, Undergrad Research Poster, Silver.]

[supervisor] Atherton E. (2016-17). Department of Earth Sciences, St. Francis Xavier University, Antigonish, NS. [Alexander Graham Bell Canada Graduate Scholarship-Masters, NSERC.]

[research contract] Risk D. (supervisor) & Tarakki N. (intern). *Soil Gas Field and Analytical Research at the Aquistore Projec*. Accelerate, MITACS & Research Contract, Petroleum Technology Research Centre, 2017-2018 (\$30,000).

[research contract] Risk D. (supervisor) & Williams J. (intern). *Soil Gas Field and Analytical Research at the Tundra Sinclair CO₂*. Accelerate, MITACS & Research Contract, Tundra Oil and Gas, 2017-2018 (\$15,000).

[research contract] **Risk D. Satellite Detection of Change Algorithm.** Petroleum Technology Alliance Canada, 2017-2018 (\$120,000).

[research grant] **Risk D. Enhancement of Mobile Emissions Monitoring Technology for Commercialization: Idea to Innovation Phase IIB, with Altus Geomatics Limited Partnership.** Idea to Innovation, Natural Sciences and Engineering Research Council, 2017-2020 (\$159,050).

[research grant] **Risk D. Assessing Methane Emissions from Legacy Fossil Resources Development and Methane Mitigation Potential in Atlantic Canada.** Natural Resources Canada, 2017-2018 (\$53,992).

[media article] StFX student Lysay Spafford wins outstanding student paper award at major international conference. *StFX Alumni News*. Summer 2017. <https://issuu.com/stfx/docs/alumni-news-summer2017>

[media article] Heat Mapping Old Coal Mines to Test for Methane Emissions. *Global News*. 11 August 2017. <https://globalnews.ca/video/3664860/heat-mapping-old-coal-mines-to-test-for-methane-emissions>

[media article] Research sheds light on dark corner of B.C.'s oil and gas industry. *The Coast*. 3 May 2017. <https://www.thecoast.ca/halifax/science-matters-research-sheds-light-on-dark-corner-of-bcs-oil-and-gas-industry/Content?old=7169206>

[media article] New report challenges use of fracked gas as 'clean' transition fuel. *Conservation Council of New Brunswick*. 1 May 2017. <http://www.conservationcouncil.ca/en/new-report-challenges-use-of-fracked-gas-as-clean-transition-fuel/>

[media article] Methane emissions in Canada's oil and gas sector. *AM770 Radio*. 28 April 2017. https://omny.fm/shows/danielle-smith/methane-emissions?sc_ref=twitter

[media article] Reports Say Oil and Gas Methane Emissions Higher than Previously Thought. *City News*. 27 April 2017. <http://toronto.citynews.ca/2017/04/27/reports-say-oil-and-gas-methane-emissions-higher-than-previously-thought/>

[media article] New Study Finds Much Higher Methane Release from Oil and Gas Fracking. *Radio Canada International*. 27 April 2017. <http://www.rcinet.ca/en/2017/04/27/new-study-finds-much-higher-methane-release-from-oil-and-gas-fracking/>

[media article] New studies: Methane emissions from Canadian oil & gas industry are worse than reported. *Environmental Defence Fund Energy Exchange Blog*. 27 April 2017. <http://blogs.edf.org/energyexchange/2017/04/27/new-studies-methane-emissions-from-canadian-oil-gas-industry-are-worse-than-reported/>

[media article] Oil and gas methane emissions higher than thought: report. *PLANT*. 27 April 2017. <https://www.plant.ca/general/reports-say-oil-and-gas-methane-emissions-higher-than-previously-thought-167427/>

[media article] Canada's Methane Leakage Massively Under-reported, Studies Find. *TheTyee.ca*. 27 April 2017. <https://thetyee.ca/News/2017/04/27/Canada-Methane-Leakage-Under-Reported/>

[media article] Reports say oil and gas methane emissions higher than previously thought. *Yahoo Finance*. 27 April 2017. Currently unavailable.

[media article] Reports say oil and gas methane emissions higher than previously thought. *TBNewsWatch*. 27 April 2017. Currently unavailable.

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[media article] Study shows methane released by oil and gas operations in BC higher than reported. *Energeticcity.ca*. 26 April

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[media article] Scientists Find Methane Pollution from B.C.'s Oil and Gas Sector 2.5 Times What B.C. Government Reports. *Desmog Canada*. 26 April 2017.

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