

David Cole Mosher

Curriculum Vitae

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University of New Hampshire
Center for Coastal and Ocean Mapping &
Dept. Earth Sciences
Chase Ocean Engineering Lab
24 Colovos Rd.,
Durham, NH
03824

Ph. (603)-862-5493
e-mail: dmosher@ccom.unh.edu

Citizenship: Canada

Language: English (maternal), French (moderate)

Employment History:

2015-Present Full Professor, University of New Hampshire, Dept. Earth Sciences and Center for Coastal and Ocean Mapping, Jere Chase Ocean Engineering Lab, 24 Colovos Rd., Durham, NH, USA 03824.

2012-2015 Program Manager (REM-2), UN Convention on the Law of the Sea Geological Survey of Canada – Atlantic Division, Natural Resources Canada, Bedford Institute of Oceanography, 1 Challenger Dr., Box 1006, Dartmouth, NS, Canada, B2Y 4A2

2000-2012 Senior Research Scientist (RS-4) Geological Survey of Canada – Atlantic Division, Natural Resources Canada, Bedford Institute of Oceanography, 1 Challenger Dr., Box 1006, Dartmouth, NS, Canada, B2Y 4A2

2000-present Adjunct Professor Dalhousie University, Halifax, NS (Ocean. and Earth Sci.)

1993-2000 Research Scientist (RS-2) Geological Survey of Canada - Pacific Division, Dept. of Natural Resources Canada, Box 6000, 9860 West Saanich Rd., Sidney, B.C., Canada, V8L 4B2
Adjunct Professor School of Earth and Ocean Sciences, Univ of Victoria

Education:

1988-1993 PhD., Oceanography Dept., Dalhousie Univ., Halifax, N.S., B3H 4J1.
Thesis: Seismic Stratigraphy of the Ontong Java Plateau: Its Paleooceanographic Significance.

1984-1987 MSc., Dept. of Earth Sciences, Memorial University of Newfoundland, St. John's, Newfoundland, A1B 3X5.

1978-1983

B.Sc.(H), Geology, Acadia Univ., Wolfville, Nova Scotia, B0P 1X0.

Executive Positions:

- 2015-2018, Chair, VIIIth International Conference on Submarine Mass Movements and Their Consequences, Victoria, British Columbia. Organizing Committee
- 2017, Convener, Special Session, Extended Continental Shelf Mapping: a wealth of new continental margin understanding. European Geosciences Union Annual Assembly 2017, Vienna Austria
- 2010-2015 Co-Chair, UNESCO/IGCP Project 585 (E-MARSHALL)
Earth's continental margins: assessing the geohazard from submarine landslides
- 2007-2011 Vice-President, President, and Past President, Atlantic Geoscience Society
- 2003-Present Canadian Consortium for Ocean Drilling committee member (founding)
- 2001-2012 Canadian Merit Scholarship Foundation (LORAN), Nova Scotia Selection Committee Chair, 2004 to 2012). National Selection Committee, 2008 & 2010
- 2006 Alexander Graham Bell Foundation Environmental Centre inaugural Board of Directors
- 2002-2006 Petroleum Research- Atlantic Canada, Research Selection Committee
- 2002-2012 Bedford Institute of Oceanography Seminar Committee co-chair
- 2004-2006 Atlantic Energy Roundtable, Seismic subcommittee
- 2003-present Canadian Consortium for Ocean Drilling, GSC representative
- 2002-2005 MJ Keen Medal (contributions to Canadian marine geoscience) selection committee
- 1998-2002 President, Marine Geosciences Division (GAC)
- 1997-2002 Associate Editor, Journal for Environmental and Engineering Geophysics

External Grants and Funding (Principal Investigator only) :

- 2010-2014 NSERC Discovery Grant: Continental margin sedimentation: evolution of the seismic sequence stratigraphic model, Mosher, \$21,000 per annum
- 2011-2013 Panel on Energy Research and Development, Frontier Oil and Gas Portfolio (Gas Hydrates). Gas hydrate as an unconventional source of gas on Canada's East Coast \$160,000.
- 2008-2011 Panel on Energy Research and Development, Pipelines POL. Engineering Evaluation of Shallow Marine Sediment Foundation Conditions through Analysis of Acoustic Scattering and In Situ Measurement, Courtney and Mosher, \$70,000/year
- 2007-2011 Panel on Energy Research and Development, Offshore Environmental Factors POL. Constraints to offshore hydrocarbon development in deep water off eastern Canada. \$107K per annum
- 2007-2010 Offshore Energy Technical Research Association – Reservoir distribution and characterization: Shelf to slope linked depositional systems. Wach and Mosher, \$293,250.
- 2006-2007 ConocoPhillips-GSC Collaborative Agreement: Seafloor geology and regional geohazard assessment, Scotian Slope and Laurentian Subbasin, \$100,000.
- 2004-2007 NSERC Discovery Grant: Geophysical characterization and quantification of gas hydrates, Canadian East Coast margin, Mosher, \$20,000 per annum
- 2007-present Panel on Energy Research and Development, Offshore Environmental Factors POL. Offshore slope stability and Offshore Geotechnique, Mosher, \$197,000
- 2005-2007 Climate Change Technology Innovation Initiative: Development of the Harpoon Free Fall Cone Penetrometer Geotechnical Tool, Mosher, \$100,000
- 2005-2007 Climate Change Technology Innovation Initiative CCTII – Ocean Bottom Seismometer adaptation for marine gas hydrate research, Mosher, \$90,000.

- 2003-2005 Petroleum Research-Atlantic Canada: Harpoon Free Fall Cone Penetrometer Development and Field Verification, Christian, Furlong and Mosher, \$60K
- 2003-2005 Petroleum Research-Atlantic Canada: Deep-water seafloor rendering and data extraction for environmental and geohazard assessment: A comparison study of 3D seismic reflection and multibeam sonar surface renders and amplitude backscatter, Mosher and LaPierre, \$75,000.
- 2002 ChevronTexaco-GSC Collaborative Agreement: Seafloor geology and geohazard assessment, Scotian Slope, Mosher, \$30,000.
- 1999-2001 USGS-National Earthquake Hazard Reduction Plan - Seismic Hazards Investigation in Puget Sound (SHIPS): Analysis of Seismic Structure, Hyndman and Mosher, \$110,000.
- 1996-1998 USGS-National Earthquake Hazard Reduction Plan – Neotectonics of the Eastern Juan de Fuca Strait, Mosher, \$100,000.

Additional Training:

- 2015 DOALAS, UNCLOS Extended Continental Shelf Training Course
- 2009 5 weeks French Immersion; Université Sainte Anne
- 2005-2007 French Language Training (International Language Institute)
- 2003 Leading Scientific Teams (Canadian Centre for Management Development)
- 1997 Coastal Multibeam Hydrography (Ocean Mapping Group, UNB)
- 1996 Environmental Assessment (Geological Society of America)
- 1992 Downhole geophysical logging (Ocean Drilling Program)

Awards

- 2015 NRCan Sector Merit Award (for planning and execution of the 2015 Mission to the North Pole)
- 2014 Departmental Achievement Award (for preparation of the Atlantic submission to the Commission on the Limits of the Continental Shelf)
- 1989-1992 NSERC post-graduate scholarship
- 1983 Texaco Research Scholarship

Invited Presentations/Keynote Lectures

- 2016:** Continental Margins of the Arctic Ocean: Implications for Law of the Sea. European Geosciences Union General Assembly 2016, Vienna, Austria, April 17-22.
- 2015:** The role of submarine landslides in the Law of the Sea. International Symposium on Submarine Mass-movements and Their Consequences VII, November 2, Wellington, New Zealand
- 2014:** A New Wave of Exploration of the Arctic Ocean. Nova Scotia Institute of Science, Halifax, Nova Scotia, December 5.
- 2012:** A Tale of Two Icebreakers: geophysical surveying in the high Arctic. Arctic Technology Conference, Houston, TX. December 3rd.
- A margin-wide gas hydrate assessment along Canada's Atlantic Coast: Fuel for the Future? Bedford Institute of Oceanography Seminar Series, January, 2012, Dartmouth, Nova Scotia.
- 2011:** Gas hydrate resources on Canada's East Coast: fact or fiction. The Society of Organic Petrology, Annual Meeting, July 31st -August 2nd, 2011, Halifax, Nova Scotia.
- Geologic Mapping of the Arctic Ocean. The Canadian Programme for an Extended Continental Shelf Submission. Nova Scotia Natural History Museum, Beyond the Last Billion Years Lecture Series, February 8th.
 - Sedimentation in the western Arctic Ocean, Research Frontiers Special Session, Geological Association of Canada annual meeting, May 24-27, 2011, Ottawa, Ont.
 - Earthquakes, Submarine Landslides and Tsunamis. International Oceans Institute, June, 2011, Halifax, Nova Scotia.

- 2010:** Gas Hydrate: Fuel for the Future. Canadian Offshore Resources Exhibit (CORE) and Conference, October 25-27, 2010, Halifax, Nova Scotia.
- Gas Hydrate along Canada's East Coast Margin. C-CORE workshop on Gas Hydrate, March 23-24, 2010, St. John's, Newfoundland.
 - Reservoir distribution and characterization: continental slope depositional systems along the Scotian margin. Nova Scotia Research and Development Forum, Halifax, May 26-28, 2010.
- 2009:** The Canadian Programme for an Extended Continental Shelf Submission; Canada Basin, Western Arctic. ArcticNet annual Scientific Meeting, Dec, 8-11, Victoria, BC.
- It's a 2-way Street: bathymetric charting for geoscience and geoscience for bathymetric charting. World Hydrography Day, Canadian Hydrographic Association, June 21, Halifax, Sept, 18, Victoria.
- 2008:** Submarine mass-movements in Canada: geohazards with far reaching implications. Comptes rendus de la 4e Conférence canadienne sur les géorisques: des causes à la gestion. 4th Canadian Conference on Geohazards: From Causes to Management. Presse de l'Université Laval, Québec, p 55-62.
<http://cgrg.geog.ubc.ca/abstracts/MosherSubmarineOn.html>

Publications (refereed): (underlined = student)

Mosher D.C., Campbell D.C., Chaytor, J.D. Piper D.J.W., Gardner, J.V., Rebesco, M. in press
 Geomorphology of the Northwest Atlantic continental margin: the role of deep-water
 sedimentary processes. *Marine Geology*

Evangelatos, J.E., Funck, T. and **Mosher, D.C.** 2017. The sedimentary and crustal velocity
 structure of Makarov Basin and adjacent Alpha Ridge *Tectonophysics* 696–697:
 99–114.

Piper, D. J. W., Campbell, D. C. and Mosher, D. C. 2016. Mid-latitude complex trough mouth
 fans, Laurentian and Northeast fans, eastern Canada. In: Dowdeswell, J. A.,
 Canals, M., Jakobsson, M., Todd, B. J., Dowdeswell, E. K. & Hogan, K. A. (eds)
 2016. *Atlas of Submarine Glacial Landforms: Modern, Quaternary and Ancient.*
 Geological Society, London, *Memoirs*, 46

Coakley, B., Brumley, K., Lebedeva-Ivanova, N. and **Mosher, D.C.** (2016). Exploring the
 Geology of the Central Arctic Ocean – Understanding the basin features in place
 and time. *Journal of the Geological Society*, V. 173, p. 967-987.

Evangelatos, J. and **Mosher, D.C.** (2016). Seismic stratigraphy, structure and morphology of
 Makarov Basin and surrounding regions: tectonic implications. *Marine Geology*
 374, 13 pp.

Chian, D. Jackson, H.R., Hutchinson, D.R., Shimeld, J.W., Oakey, G.N., Lebedeva-Ivanova, N.,
 Li, Q., Saltus, R.W. and **Mosher, D.C.** (2016) Distribution of crustal types in the
 Canada Basin, Arctic Ocean. *Tectonophysics* 691, 8-30.

Campbell, D.C. and **Mosher, D.C.**, 2016. Geophysical evidence for widespread Cenozoic
 bottom current activity from the continental margin off Nova Scotia, Canada.
Marine Geology 378, p. 237-260.

Mosher, D.C., Laberg, J-S, Murphy, A. 2016. The role of submarine landslides in the Law of the
 Sea. In: Lamarche, G., Mountjoy, J. et al (eds). *Submarine Mass Movements and
 Their Consequences VII, Advances in Natural and Technological Hazards
 Research*, Springer, Vol. 32, p. 147-158.

Shimeld, J., Li, Q., Chian, D., Lebedeva-Ivanova, N., Jackson, R., **Mosher, D.C.** and
 Hutchinson, D. 2016. Seismic velocities within the sedimentary succession of the

Canada Basin and southern Alpha-Mendeleev Ridge, Arctic Ocean: evidence for accelerated porosity reduction? *Geophysical Journal International* 204: 1-20.

O'Regan, M., Forwick, M., Jakobsson, M., Moran, K. and **Mosher, D.C.**, 2015. Seafloor cratering and sediment remolding at sites of fluid escape. *Geology*, doi: 10.1130/G36945/1 (pre-Issue online at <http://geology.gsapubs.org/content/early/recent>)

Campbell, D.C., Shimeld, J., Deptuck, M.E., **Mosher, D.C.**, 2015. Seismic stratigraphic framework and deposition history of a large Upper Cretaceous and Cenozoic depocenter off southwest Nova Scotia, Canada. *Marine and Petroleum Geology*, 65, p. 22-42.

McKeown, D.L., P. Simpkin, G.B.J. Fader, R. Parrott, and **D.C. Mosher**. 2014. The Huntec deep tow seismic system: a revolution in high resolution profiling. In *Voyage of Discovery: Fifty years of marine research at Canada's Bedford Institute of Oceanography* (D.N. Nettleship, D.C. Gordon, C.F.M. Lewis, and M.P. Latremouille, Eds.). Bedford Institute of Oceanography – Oceans Association, Dartmouth, N S., p. 337-341.

Verhoef, J., **Mosher, D.C.**, and Forbes, S., 2014. United Nations Convention on the Law of the Sea and BIO: defining Canada's extended continental shelves. In *Voyage of Discovery: Fifty years of marine research at Canada's Bedford Institute of Oceanography* (D.N. Nettleship, D.C. Gordon, C.F.M. Lewis, and M.P. Latremouille, Eds.). Bedford Institute of Oceanography – Oceans Association, Dartmouth, N S., p. 407-414.

(2012-2013 fully occupied authoring the Canadian Submission for an Extended Continental Shelf under the UN Convention on the Law of the Sea - a confidential document. The Executive Summary is online www.un.org/Depts/los/clcs_new/submissions_files/can70_13/es_can_en.pdf)

Piper, D.J.W., **Mosher, D.C.** and Campbell, D.C. 2012. Chapter 9: Controls on the distribution of major types of submarine landslides. In: J.J. Clague and S. Stead (eds.), *Landslides: Types, Mechanisms and Modeling*. Cambridge University Press.

Piper, D.J.W., Deptuck, M.E., **Mosher, D.C.**, Hughes Clarke, J.E. and Migeon, S., 2012. Erosional and depositional features of glacial meltwater discharges on the eastern Canadian Continental margin. In: Prather, B., Deptuck, M., Mohrig, D., van Hoorn, B. and Wynn, R. (eds.). *Application of Seismic Geomorphology Principles to Continental Slope and Base-of-Slope Systems*, SEPM Special Publication 99, 61-80.

Schlesinger, A., Cullen, J., Spence, G., Hyndman, R., Loudon, K. and **Mosher, D.**, 2012. Seismic velocities on the Nova Scotian margin to estimate gas hydrate and free gas concentrations. *Marine and Petroleum Geology* 35, p.105-115 doi:10.1016/j.marpetgeo.2012.03.008

Mosher, D.C., Shimeld, J.W., Hutchinson, D., Lebedeva-Ivanova, N, and Chapman, C.B., 2012. Submarine Landslides in Arctic Sedimentation: Canada Basin. In: Yamada, Y., Kawamura, K., Ikehara, K., Ogawa, Y., Urgeles, R., Mosher, D., Chaytor, J. and Strasser, M. (eds). *Submarine Mass Movements and Their Consequences V*,

Advances in Natural and Technological Hazards Research, Vol. 31, p. 147-158.

- Li, G., Campbell, D.C., **Mosher, D.C.** and Piper, D.J.W., 2012. Comparison of Quaternary glaciogenic debris flows with blocky mass-transport deposits in Orphan Basin, offshore eastern Canada. In: Yamada, Y., Kawamura, K., Ikehara, K., Ogawa, Y., Urgeles, R., Mosher, D., Chaytor, J. and Strasser, M. (eds). Submarine Mass Movements and Their Consequences V, Advances in Natural and Technological Hazards Research, Vol. 31, p. 723-734.
- Yamada, Y., Kawamura, K., Ikehara, K., Ogawa, Y., Urgeles, R., **Mosher, D.**, Chaytor, J. and Strasser, M. (eds.), 2012. Submarine Mass Movements and Their Consequences, Advances in Natural and Technological Hazards Research, V. 31, Springer, Dordrecht, 769 pp.
- Yamada, Y., Kawamura, K., Ikehara, K., Ogawa, Y., Urgeles, R., **Mosher, D.**, Chaytor, J. and Strasser, M., 2012. Submarine Mass Movements and Their Consequences, in: Yamada, Y., Kawamura, K., Ikehara, K., Ogawa, Y., Urgeles, R., **Mosher, D.**, Chaytor, J. and Strasser, M. (eds.), Submarine Mass Movements and Their Consequences, Advances in Natural and Technological Hazards Research, V. 31, Springer, Dordrecht, 769 pp.
- Jakobsson, M., Mayer, L., Coakley, B., Dowdeswell, J.A., Forbes, S., et al. 2012. The International Bathymetric Chart of the Arctic Ocean (IBCAO) Version 3.0. Geophysical Research Letters 39, L12609. doi:10.1029/2012GL052219.
- Mosher, D.C.**, 2011. A margin-wide BSR gas hydrate assessment: Canada's Atlantic margin. Journal of Marine and Petroleum Geology 28, p. 1540-1553, doi:10.1016/j.marpetgeo.2011.06.007.
- Verhoef, J., **Mosher, D.C.**, Forbes, S. 2011. Defining Canada's extended continental shelves. Geoscience Canada. Vol. 38, p. 85-96.
- Mosher, D.C.** and Campbell, D.C., 2011. The Barrington submarine landslide, western Scotian Slope. In: Shipp, C., Weimer, P, and Posamentier, H. (eds.), Mass-transport Deposits in Deepwater Settings. SEPM Special Publication 96, p. 151-160.
- Ingram, W.C., **Mosher, D.C.**, and Wise Jr, S.W., 2011. Biostratigraphy of an upper Miocene mass-transport deposit on Demerara Rise, northern South American margin. In: Shipp, C., Weimer, P, and Posamentier, H. (eds.), Mass-transport Deposits in Deepwater Settings. SEPM Special Publication 96, p 475-498.
- Mosher, D.C.**, 2011. Cautionary considerations for geohazard mapping with multibeam sonar: resolution and the need for the third and fourth dimensions. Marine Geophysical Researches, Vol. 32, p. 25-35. DOI 10.1007/s1 1001-010-9104-y.
- Mosher, D.C.**, Shipp, C., Moscardelli, L., Chaytor, J., Baxter, C., Lee, H. and Urgeles, R. (eds), 2010. Submarine Mass Movements and Their Consequences IV; Advances in Natural and Technological Hazards Research, vol. 28, DOI 10.1007/978-90-481-3071-9, Springer, The Netherlands, 792 pp.
- Mosher, D.C.**, Moscardelli, L., Shipp, C., Chaytor, J., Baxter, C., Lee, H., and Urgeles, R., 2010. Submarine Mass Movements and Their Consequences. In: Mosher, D.C., Shipp, C., Moscardelli, L., Chaytor, J., Baxter, C., Lee, H. and Urgeles, R. (eds). Submarine Mass Movements and Their Consequences IV; Advances in Natural and Technological Hazards Research, Vol 28, DOI 10.1007/978-90-481-3071-9, Springer, The Netherlands, p. 1-10.

- Mosher, D.C.**, Xu, Z. And Shimeld, J., 2010. The Pliocene Shelburne mass-movement and consequent tsunami, western Scotian Slope. In: Mosher, D.C., Shipp, C., Moscardelli, L., Chaytor, J., Baxter, C., Lee, H. and Urgeles, R. (eds). Submarine Mass Movements and Their Consequences IV; Advances in Natural and Technological Hazards Research, Vol 28, DOI 10.1007/978-90-481-3071-9, Springer, The Netherlands, p. 765-776.
- Campbell, D.C., and **Mosher D.C.**, 2010. Middle to late Miocene slope failure and the generation of a regional unconformity beneath the western Scotian Slope, eastern Canada. In: Mosher, D.C., Shipp, C., Moscardelli, L., Chaytor, J., Baxter, C., Lee, H. and Urgeles, R. (eds). Submarine Mass Movements and Their Consequences IV; Advances in Natural and Technological Hazards Research, Vol 28, DOI 10.1007/978-90-481-3071-9, Springer, The Netherlands, p. 645-656.
- Giles, M.K., **Mosher, D.C.**, Piper, D.J.W., and Wach, G.D., 2010. Mass transport deposits on the southwestern Newfoundland Slope. In: Mosher, D.C., Shipp, C., Moscardelli, L., Chaytor, J., Baxter, C., Lee, H. and Urgeles, R. (eds). Submarine Mass Movements and Their Consequences IV; Advances in Natural and Technological Hazards Research, Vol 28, DOI 10.1007/978-90-481-3071-9, Springer, The Netherlands, p. 657-666.
- Huppertz, T.J., Piper, D.J.W., **Mosher, D.C.** and Jenner, K. 2010. The Significance of mass-transport deposits for the evolution of a proglacial continental slope. In: Mosher, D.C., Shipp, C., Moscardelli, L., Chaytor, J., Baxter, C., Lee, H. and Urgeles, R. (eds). Submarine Mass Movements and Their Consequences IV; Advances in Natural and Technological Hazards Research, Vol 28, DOI 10.1007/978-90-481-3071-9, Springer, The Netherlands, p. 631-641.
- Poncet, R., Campbell, D.C., Dias, F., Locat, J., and **Mosher, D.C.**, 2010. A study of the tsunami effects of two landslides in the St. Lawrence estuary, In: Mosher, D.C., Shipp, C., Moscardelli, L., Chaytor, J., Baxter, C., Lee, H. and Urgeles, R. (eds). Submarine Mass Movements and Their Consequences IV; Advances in Natural and Technological Hazards Research, Vol 28, DOI 10.1007/978-90-481-3071-9, Springer, The Netherlands, p. 755-764.
- Mosher, D.C.**, 2009. Submarine landslides and consequent tsunamis in Canada. Geoscience Canada. V. 26, p. 179-190.
- Mosher, D.C.**, Austin, J.A., Jr., Fisher, D., and Gulick, S.P.S., 2008. Deformation of the northern Sumatra accretionary prism from high-resolution seismic reflection profiles and ROV observations. Marine Geology 252, p. 89-99, Doi: 10.1016/j.margeo.2008.03.01
- Mosher, D.C.**, and Piper, D.J.W., 2007. Analysis of multibeam seafloor imagery of the Laurentian Fan and the 1929 Grand Banks landslide area. In: Lykousis, V., Dimitris, S., and Locat, J. (eds), Submarine Mass Movements and Their Consequences, III. Springer, The Netherlands, p. 77-88.
- Deptuck, M.E., **Mosher, D.C.**, Campbell, D.C., Hughes-Clarke, J.E., and Noseworthy, D. 2007. Along slope variations in mass failures and relationships to major Plio-Pleistocene morphological elements, SW Labrador Sea. In: Lykousis, V., Dimitris, S., and Locat, J. (eds), Submarine Mass Movements and Their Consequences, III. Springer, The Netherlands, p. 37-46.

- Tappin, D.R., McNeil, L.C., Henstock, T. and **Mosher, D.C.**, 2007. Mass wasting processes – offshore Sumatra. In: Lykousis, V., Dimitris, S., and Locat, J. (eds), *Submarine Mass Movements and Their Consequences, III*. Springer, The Netherlands, p. 327-336.
- LeBlanc, C., Loudon, K., and **Mosher, D.C.**, 2007. Gas hydrates on the Nova Scotia Slope: velocity models from wide-angle seismic profiles. *Marine and Petroleum Geology*, v. 24, 321-334.
- Fisher, D.C., **Mosher, D.C.**, Austin, J.A., Jr., Gulick, S., Masterlark, T., and Moran, K. 2007. Active deformation across the Sumatran forearc over the December, 2004 M_w 9.2 rupture. *Geology*, v. 35; no. 2; p. 99–102.
- Mosher, D.C.**, Erbacher, J. and Malone, M.J. (Eds.), 2007. *Proc. ODP, Sci. Results, 207*: College Station, TX (Ocean Drilling Program). DOI: 10.2973/odp.proc.sr.207.2007.
- Mosher, D.C.**, Erbacher, J. and Malone, M.J., 2007. Synthesis: Extreme warmth, organic-rich sediments and an active deep biosphere: Cretaceous to Paleogene paleoceanographic depth transect at Demerara Rise, western tropical Atlantic. In: *Mosher, D.C., Erbacher, J. and Malone, M. (Eds.). Proc. ODP, Sci. Results, 207*: College Station, TX (Ocean Drilling Program), 1-15. DOI:10.2973/odp.proc.sr.207.101.2007.
- Mosher, D.C.**, Bigg, S. and LaPierre, A. 2006. 3D seismic versus multibeam sonar seafloor surface renderings for geohazard assessment: Case examples from the central Scotian Slope. *The Leading Edge*, V. 25, p. 1484-1494.
- Jenner, K.A., Piper, D.J.W.P., Campbell, D.C. and **Mosher, D.C.**, 2006. Lithofacies and origin of late Quaternary mass transport deposits in submarine canyons, central Scotian Slope, Canada. *Sedimentology*, v. 53., 20 pp.
- Mosher, D.C.**, Piper, D.J.W.P., Campbell, D.C., and Jenner, K.A., 2004. Near surface geology and sediment failure geohazards of the central Scotian Slope. *American Association of Petroleum Geologists Bulletin*, 88, p. 703-723.
- Mosher, D.C.** and Hewitt, A.T., 2004. Late Quaternary deglaciation and sea-level history of eastern Juan de Fuca Strait, Cascadia. *Quaternary International.*, v. 121 p. 23-39.
- Mosher, D.C.**, Erbacher, J., Malone, M., and shipboard scientific party. 2004. ODP Leg 207: causes and consequences of carbon cycle perturbations during the Cretaceous to Paleogene greenhouse; Demerara Rise, Western Equatorial Atlantic. *JOIDES Journal*, v. 30, p. 3-7.
- Erbacher, J., **Mosher, D.C.**, Malone, M. and shipboard scientific party. 2004. Initial Results, ODP Leg 207, Demerara Rise. Initial Results V. 207, Ocean Drilling Program, Texas A&M University, 89 pp. + CDROM.
- Erbacher, J., **Mosher, D.C.**, Malone, M. and shipboard scientific party. 2004. Drilling probes past carbon cycle perturbations on the Demerara Rise. *EOS*, v. 85, p. 57.
- Groulx, B.J., **Mosher, D.C.**, Luternauer, J.L. and Bilderback, D. (eds). 2004. *Fraser River Delta: Issues of an Urban Estuary*. Geological Survey of Canada Bulletin 567. 331 pp.
- Newton, C.S., Shipp, R.C., and **Mosher, D.C.**, 2004. Importance of Mass Transport Complexes

in the Quaternary Development of the Nile Fan, Egypt. Offshore Technology Conference, Paper 16742, May, 2004 Houston, TX.

- Mosher, D.C.**, 2004. Summary. *in: Fraser River Delta: Issues of an Urban Estuary*, (eds.) B.J. Groulx, D.C. Mosher, J.L. Luternauer, and D.B. Bilderback Geological Survey of Canada Bulletin 567, p. vii-xiv.
- Mosher, D.C.**, Christian, D.C., Hunter, J.A., and Luternauer, J.L., 2004. Onshore and Offshore Geohazards of the Fraser River Delta. *in: Fraser River Delta: Issues of an Urban Estuary*, (eds.) B.J. Groulx, D.C. Mosher, J.L. Luternauer, and D.B. Bilderback Geological Survey of Canada Bulletin 567, p. 67-81.
- Mosher, D.C.**, Monahan, P.A., Barrie, J.V., and Courtney, R.C., 2004. Coastal Submarine Failures in the Strait of Georgia, British Columbia: Landslides of the 1946 Vancouver Island Earthquake. *Journal of Coastal Research*, 20, 277-291.
- Piper, D.J.W., **Mosher, D.C.**, Gauley, B.-J., Jenner K. and Campbell, D.C., 2003. The chronology and recurrence of submarine mass movements on the continental slope off southeastern Canada. In: Locat, J., Mienert, J. and Boisvert, L. (eds.) *Submarine Mass Movements and Their Consequences*, 1st International Symposium, *Advances in Natural and Technological Hazards Research*, v. 19., Kluwer Academic Publishers, Dordrecht, The Netherlands, p. 299-306.
- Mosher, D.C.**, and Thomson, R.E., 2002. The Foreslope Hills: large-scale, fine-grained sediment waves in the Strait of Georgia, British Columbia. *Marine Geology*, v. 192, p. 275-295.
- Piper, D.J.W., **Mosher, D.C.**, and Newton, S., 2002. Ice-margin seismic stratigraphy of the central Scotian Slope eastern Canada, Geological Survey of Canada Current Research, 2002-E16, 10 pp.
- Mosher, D.C.** and Moran, K. 2001. Post-glacial evolution of Saanich Inlet, British Columbia; results of physical property and seismic reflection stratigraphic analysis. *Marine Geology*, 174, p. 59-77.
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- Mosher, D.C.**, Walia, R., and Moran, K., 1998. Seismic stratigraphy of Saanich Inlet. Geological Association of Canada (GAC/MAC) Annual Meeting Program with Abstracts, Quebec, May, 1998.
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- Walia, R., **Mosher, D.C.**, and Simpkin, P. 1998. High resolution marine seismic reflection profiling: processing (special session on status and trends in the marine geosciences). Geological Association of Canada Annual Meeting Program with Abstracts, Quebec, May, 1998.
- Mosher, D.C.**, Simpkin, P., and Walia, R., 1998. High resolution marine seismic reflection profiling: Interpretation (special session on status and trends in the marine geosciences). Geological Association of Canada Annual Meeting Program with Abstracts, Quebec, May, 1998.
- Mosher, D.C.**, Currie, R.G., and Sullivan, D., 1998 Two years of Repetitive Sidescan Sonar

- Mosaics of The Point Grey Ocean Disposal Site, Vancouver, Canada. Puget Sound Research Conference, March, 1998, Seattle, WA.
- Mosher, D.C.**, Kung, R., Hewitt, A.T., and Hamilton, T.S. 1998. Geologic Mapping in the Eastern Juan de Fuca Strait. Puget Sound Research Conference, March, 1998, Seattle, WA.
- Mosher, D.C.**, Hewitt, A.T., and Hamilton, T.S., 1997c. Neotectonic Activity in the Eastern Juan de Fuca Strait: Quantitative Seismic Reflection Mapping. American Geophysical Union annual Meeting, December, 1997, San Francisco, program with abstracts.
- Mosher, D.C.**, and Currie, R.G., 1997 Ocean Disposal at the Point Grey Disposal Site: a test monitoring study using repetitive sidescan mosaicing. American Geophysical Union annual Meeting, December, 1997, San Francisco, program with abstracts.
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- Mosher, D.C.** 1995. Environmental geological constraints in the offshore of the Fraser River Delta. Proceedings of the Pacific Division of the American Association for the Advancement of Science **14**, part 1, Vancouver, British Columbia, June 18, 1995, p. 52
- Mosher, D.C.**, and Barrie, J.V., 1995. Constraints to development in the Offshore of the Fraser River Delta. Geological Association of Canada Annual Meeting, Victoria, May, 1995. p. A-73.
- Mosher, D.C.**, Law, L.K., and Quinn, R., 1995. Marine Electromagnetic and seismic high resolution profiling: results from coastal British Columbia. Proceedings, Canadian Coastal Conference Proceedings, Halifax, October, 1995, p. 621-635.
- Moran, K.M., Gray, W.G.D., **Mosher, D.C.**, Backman, J., and King, J., 1995. Physical properties and sedimentology of cores from the eastern and central Arctic Ocean. ICP V Program and Abstracts, 5th International conference on Paleoceanography, Oct. 10-14, 1995, Halifax, N.S., p. 166.
- Mosher, D.C.**, 1994. Imaging sediment failures on the Fraser River Delta. EOS Transactions, American Geophysical Union 1994 fall meeting, **75**, No. 44, November, 1994/supplement, p. 319.
- Mosher, D.C.**, Christian, H.A., and Barrie, J.V., 1994. Hazards to development in the offshore of the Fraser River Delta. Geological Society of America, 1994 Annual Meeting, Seattle, Washington, program with abstracts. p. A469.
- Gross, P., **Mosher, D.C.**, and Parrott, D.R., 1994. MUSE Data Logger: a Macintosh-based sidescan and seismic high resolution digital acquisition system. EOS Transactions, American Geophysical Union 1994 fall meeting, **75**, No. 44, November, 1994/supplement, p. 319.
- Mosher, D.C.** and Mayer, L.A., 1992. Seismic stratigraphy of the Ontong Java Plateau: paleoceanographic significance. Fourth International Conference on Paleoceanography (ICP IV), Kiel, Germany, Sept. 21-25, 1992. Program with abstracts, p.206-207.
- Mosher, D.C.**, 1992. Digital Colour Reflectance of late Quaternary central Arctic deep-sea sediments. Fourth International Conference on Paleoceanography (ICP IV), Kiel, Germany, Sept. 21-25, 1992. Program with abstracts, p.161.
- Kassens, H., **Mosher, D.C.**, and Moran, K. 1992. Physical properties of late Quaternary central Arctic deep-sea sediments: paleoceanographic significance. Fourth International Conference on Paleoceanography (ICP IV), Kiel, Germany, Sept. 21-25, 1992. Program with abstracts, p.161.
- Mosher, D.C.**, Mayer, L.A., Shipley, T., and scientific party of Ocean Drilling Program Leg 130, 1990. ODP Leg 130: The Ontong Java Plateau. Geological Association of Canada annual

- meeting, Vancouver, 1990, program with abstracts **15**, p. A92.
- Mosher, D.C., Lewis, C.F.M., Moran, K., Sonnichsen, G.V., and Parrott, D.R., 1990.** Borehole investigation of near-surface sediments on the northeastern Grand Banks of Newfoundland. Geological Association of Canada annual meeting, Vancouver, 1990, program with abstracts **15**, p. A91.
- Mosher, D.C., Lewis, C.F.M., Lewis, J.F., Parrott, D.R., Fader, G.B.J., and Durling, P.W., 1988.** Geology of near-surface Tertiary sediments on the northeastern Grand Banks of Newfoundland. Geological Association of Canada annual meeting, St. John's, 1988, program with abstracts **13**, p. A88.
- Mosher, D.C., 1986.** Late Quaternary sedimentation of the Verrill Canyon area of the Scotian Slope. Society of Economic Paleontologists and Mineralogists Annual Midyear Meeting contributed Abstracts, V.III, 26-28 September, Raleigh, North Carolina, p.81.

Invited Talks

- Mosher, D.C. 2016.** Continental Margins of the Arctic Ocean: Implications for Law of the Sea. European Geosciences Union General Assembly 2016, Vienna, Austria, April 17-22, 2016.
- Mosher, D.C., 2015.** The role of submarine landslides in the Law of the Sea. International Symposium on Submarine Mass Movements and Their Consequences VII, Wellington, NZ, Nov. 2, 2015.
- Mosher, D.C., 2014.** A New Wave of Exploration of the Arctic Ocean. Nova Scotia Institute of Science, December 2014.
- Mosher, D.C., 2012.** A Tale of Two Icebreakers: geophysical surveying in the high Arctic. Arctic Technology Conference, December 2012, Houston, TX.
- Mosher, D.C., 2012.** A margin-wide gas hydrate assessment along Canada's Atlantic Coast: Fuel for the Future? Bedford Institute of Oceanography Seminar Series, January, 2012, Dartmouth, Nova Scotia.
- Mosher, D.C., 2011.** Gas hydrate resources on Canada's East Coast: fact or fiction. The Society of Organic Petrology, Annual Meeting, July 31st -August 2nd, 2011, Halifax, Nova Scotia.
- Mosher, D.C., 2011.** Geologic Mapping of the Arctic Ocean The Canadian Programme for an Extended Continental Shelf Submission. Nova Scotia Natural History Museum, Beyond the Last Billion Years Lecture Series, February 8th, 2011.
- Mosher, D.C., 2011.** Sedimentation in the western Arctic Ocean, Research Frontiers Special Session, Geological Association of Canada annual meeting, May 24-27, 2011, Ottawa, Ont.
- Mosher, D.C., 2011.** Earthquakes, Submarine Landslides and Tsunamis. International Oceans Institute, June, 2011, Halifax, Nova Scotia.
- Mosher, D.C., 2010.** Gas Hydrate: Fuel for the Future. Canadian Offshore Resources Exhibit (CORE) and Conference, October 25-27, 2010, Halifax, Nova Scotia.

Mosher, D.C., 2010. Gas Hydrate along Canada's East Coast Margin. C-CORE workshop on Gas Hydrate, March 23-24, 2010, St. John's, Newfoundland.

Mosher, D.C. and Wach, G. 2010. Reservoir distribution and characterization: continental slope depositional systems along the Scotian margin. Nova Scotia Research and Development Forum, Halifax, May 26-28, 2010.

Mosher, D.C., 2010. Submarine Landslides and Tsunamis. International Oceans Institute, May, 2010, Halifax, Nova Scotia.

Mosher, D.C., 2009. The Canadian Programme for an Extended Continental Shelf Submission; Canada Basin, Western Arctic. ArcticNet annual Scientific Meeting, Dec, 8-11, Victoria, BC.

Mosher, D.C., 2008. Submarine mass-movements in Canada: geohazards with far reaching implications. Comptes rendus de la 4e Conférence canadienne sur les géorisques: des causes à la gestion. 4th Canadian Conference on Geohazards: From Causes to Management.

Post-Doctoral Fellows Supervised or co-Supervised

Dr. Franky Saint-Ange, Labrador Paleooceanography
Dr. Ethymios Tripsanas, Orphan Basin Sedimentology
Dr. Michael Riedel, Canadian Gas Hydrates

Student Theses Supervised/Co-Supervised

PhD

Irena Schulten, PhD, (2nd year), Dalhousie University. Quantitative evaluation of the 1929 Grand Banks Landslide

John Evangelatos, PhD, (4th year) Dalhousie University. Stratigraphy and Structure of Makarov Basin, tectonic implications to Canada Basin of the high Arctic Ocean.

Angela Schlesinger, PhD (incomplete), University of Victoria, Variable Fluid Flow Along The Nova Scotian Slope - A Study Of Gas Hydrates With Ocean-Bottom Seismic Data

Calvin Campbell, PhD (2011), Dalhousie University, The Late Cretaceous and Cenozoic Geological History of the Outer Continental Margin off Nova Scotia, Canada: Insights Into Margin Evolution from a Mature Passive Margin, 286 pp.

Anthony Hewitt, PhD (2002), University New Hampshire, Seafloor geology, deglacial history and early post-glacial evolution of the eastern Juan de Fuca Strait.

MSc

Cassandra Bongiovanni, (1st year). University of New Hampshire. The Bering Strait Land Bridge imaged on seismic reflection profiles.

Jane Hawken, MSc. (3rd year), Dalhousie University. The Flemish Pass gas hydrate BSR: characterization and evaluation.

Janette Cullen, (2014), Dalhousie University, Geophysical Character of the Mohican Channel Gas Hydrate Zone, Scotian Slope, Eastern Canada

Shawn Goss MSc (2010), Dalhousie University, Cenozoic seismic stratigraphic analysis of the Surname margin, South America (An Equatorial analog)

Michael Giles MSc (2010), Dalhousie University, Mass Transport Processes on the Southwestern Newfoundland Margin, Eastern Canada Mechanisms for Deep Water Sediment Transport

Virginia Brake, MSc (2009), Dalhousie University, Evolution of an Oligocene Canyon System on the Eastern Scotian Margin

Simon Newton, MSc (2006), Dalhousie University, Importance of mass transport complexes in the development of the central and western Quaternary Nile fan

Adam MacDonald, MSc (2006), Saint Mary's University, Cenozoic seismic stratigraphy of the central Nova Scotian continental margin: the interplay of erosion, deposition and salt tectonics

Mehdi Loloi, MEng (2004), Dalhousie University, Slope instability analysis of a part of Orphan Basin off Newfoundland.

Kent Simpson (incomplete), Dalhousie University, 3D Cenozoic architecture of the central Scotian Slope.

BSc

Kai Boggild, BSc. (2016). Dalhousie University, Submarine Channels in the high Arctic Ocean.

Matt Abram, BSc. (2010), Dalhousie University, Gas hydrate distribution and volume at Sackville Spur

Michael Giles, BSc. (2007), Dalhousie University, Cenozoic stratigraphy and slope processes, southwestern Scotian Slope.

Shawn Goss, BSc. (2006), Dalhousie University, Quaternary stratigraphy of the Hamilton Spur: a sediment drift on the Labrador continental slope.

Maureen White, BSc. (2005), Dalhousie University, Late Cenozoic seismic stratigraphy of the Mohican Channel area, Scotian Slope.

Simon Newton, BSc. (2003), Dalhousie University, Quaternary and late Pliocene seismic stratigraphy of the central Scotian Slope.

Christopher LeBlanc, BSc. (2002), Dalhousie University, Central Scotian Slope stability: the possible role of gas hydrates.

Reviews

Journal

Marine Geology 19
Geology 4
Marine and Petroleum Geology 4
Earth and Planetary Science Letters 4
Marine Geophysical Research 3
GSA Bull. 2
Sedimentology 2
Journal of Geophysical Research 1
Nature 1
Other 12

funding proposals

NSERC 4
NERC 1
NSF 1
URI Sea Grant 2

Thesis (external examiner)

PhD 3
MSc 7

Research Expeditions

Year	Cruise designation	Ship	Geographic Area	Duty
1982	82004	Dawson	Scotian Slope	Student/Watchkeep
1983	83012	Dawson	Scotian Slope	Student/Watchkeep
1984	84030	Hudson	Labrador Sea	Student/Watchkeep
1985	85001	Hudson	Laurentian Fan	Student/Watchkeep
1985	Ice Island	Ice Island	Arctic Ocean	Research Assist.
1986	86018	Hudson	Grand Banks of Newfoundland	Research Assist.
1987	Ice Island	Ice Island	Arctic Ocean	Research Assist.
1987	87027	Hudson	Labrador Sea	Research Assist.
1988	88400	Balder Challenger	Grand Banks	Research Assist.
1988	88401	M/V Pholas	Grand Banks	Research Assist.
1988	Roundabout 11	Thomas Washington	East. Eq. Pacific	Student/Watchkeep
1988	Ice Island	Ice Island	Arctic Ocean	Research Assist.
1989	Venture I	Thomas Washington	West. Eq. Pacific	Student/Watchkeep
1989	Ice Island	Ice Island	Arctic Ocean	Research Assist.
1990	ODP Leg 130	Joides Resolution	Ontong Java Plateau	Sedimentologist
1991	ARKTIS VIII	F/S Polarstern	Arctic/North Pole	Physical Properties
1993	93002	R.B. Young	St. Juan de Fuca	Marine EM
1993	93010	John P. Tully	Strait of Georgia	Chief Scientist
1994	94003	R.B. Young	St. of Georgia	Chief Scientist
1995	95001	John P. Tully	Strait of Georgia	Chief Scientist
1995	95003	M/V Revisor	Juan de Fuca	Chief Scientist
1995	95004	John P. Tully	Saanich Inlet	Chief Scientist
1996	96001	John P. Tully	Saanich Inlet	Chief Scientist
1996	96006	John P. Tully	Juan de Fuca	Chief Scientist
1997	97005	John P. Tully	Equipment Trials	Chief Scientist
1997	97007	John P. Tully	Juan de Fuca/St. Georgia	Chief Scientist
1997	97009	John P. Tully	St. Georgia	Chief Scientist
1998	SHIPS / 98002	John P. Tully / Thomas Thompson	Juan de Fuca / Puget Sound / St. Georgia	Chief Scientist (Tully)
1998	98004	M/V Revisor	Victoria	Chief Scientist
1998	ODP Leg 169S	Joides Resolution	Saanich Inlet	Physical Properties Specialist

1999	99004	M/V Revisor	Gulf Islands`	Chief Scientist
2000	2000-040	Hudson	Scotian Slope	Chief Scientist
2001	2001-048A	Hudson	Scotian Slope	Chief Scientist
2002	2002-046	Hudson	Scotian Slope	Chief Scientist
2003	2003-033	Hudson	Scotian Slope	Co-Chief Scientist
2003	ODP Leg 207	Joides Resolution	Demerara Rise	Co-Chief Scientist
2004	2004-030	Hudson	S. Grand Banks Slope	Chief Scientist
2005	SEATOSS	The Performer	Sumatra	Geophysicist
2005	2005-033B	Hudson	Labrador Slope	Chief Scientist
2006	2006-046	Hudson	Scotian Slope	Chief Scientist
2007	2007-020	Hudson	Laurentian Fan	Chief Scientist
2008	2008-027	Hudson	Labrador Slope	Chief Scientist
2009	LSSL2009	Louis S. St-Laurent	Arctic Ocean	Chief Scientist
2010	LSSL2010	Louis S. St-Laurent	Arctic Ocean	Chief Scientist
2011	LSSL2011	Louis S. St-Laurent	Arctic Ocean	Chief Scientist
2014	LSSL2014	Louis S. St-Laurent & Terry Fox	Arctic Ocean/ North Pole	Chief Scientist
2016	NOAA	Ron Brown	Hawaii/Palmyra	2 nd Scientist
2016	AR01-07	Neil Armstrong	Norfolk/WHOI	scientist
2016	HLY16-03	USCGC Healy	Arctic Ocean/Beringian margin	scientist