

CURRICULUM VITAE

Mladen R. Nedimović

Department of Earth Sciences
Dalhousie University
Room 3006, Life Sciences Centre
Halifax, Nova Scotia
B3H 4J1, Canada
e-mail: *mladen@dal.ca*

Lamont-Doherty Earth Observatory
Columbia University
61 Route 9W, P. O. Box 1000
Palisades, New York
10964-8000, USA
e-mail: *mladen@ldeo.columbia.edu*

Educational background

- 2000 • Ph.D. degree, October 6th, 2000, *University of Toronto*, Department of Physics, Geophysics Division, Toronto, Ontario, Canada. Thesis title: “Seismic Reflection Imaging in Crystalline Terrains”.
- 1994 • M.Sc. degree, September 30th, 1994, *University of Toronto*, Department of Physics, Geophysics Division, Toronto, Ontario, Canada. Title of the report: “Reprocessing of Crustal Seismic Reflection Data from the Abitibi Greenstone Belt”.
- 1991 • B.Sc. degree, May 16th, 1991, *University of Belgrade*, Faculty of Mining and Geology, Department of Geology, Geophysics Division, Belgrade, Yugoslavia. Thesis title: “Analysis of the Effect of a Seismic Model on Earthquake Hypocenter Parameters in the Region of Serbia”.

Awards and distinctions

- 2019 • Texas A&M University, College Station, USA - Halbouty Visiting Chair.
- 2016 • Institute for Geophysics and Planetary Physics, La Jolla, USA - Green Scholar.
- 2014 • Centre National de la Recherche Scientifique, Nice, France - Invited Researcher.
- 2013 • Ecole Normale Supérieure, Paris, France - Invited Professor.
- 2012 & 2018 • Observatoire de la Cote d’Azur, Nice, France - Invited Professor.
- 2006-2016 • Canada Research Chair in Geophysics and Petroleum Exploration.
- 2000-2002 • Canadian Government Laboratory Visiting Fellow.
- 1997 • Hart House Film Board Production and Post Production Grants.
- 1995 & 1997 • Canadian Society of Exploration Geophysicists Scholarship.
- 1995-1998 • University of Toronto Open Doctoral Fellowship.
- 1994-1995 • Ontario Graduate Scholarship.
- 1992-1993 • State Oil & Gas Company of Yugoslavia Graduate Scholarship.

Work experience

- Date • From Jan. 12th, 2018 to present.
Employer • University of New Mexico, Albuquerque, New Mexico, USA.
Position • Visiting Research Professor.
- Date • From July 1st, 2015 to present.
Employer • Dept. of Earth Sciences at Dalhousie University, Halifax, Nova Scotia, Canada.
Position • Full Professor.
- Date • From Aug. 1st, 2008 to Aug. 1st, 2010, and from Aug. 15th, 2014 to present.
Employer • Dept. of Earth Sciences at Dalhousie University, Halifax, Nova Scotia, Canada.
Position • Associate Chair.
- Date • From Jan. 1st, 2014 to present.
Employer • University of Texas Institute for Geophysics, Austin, USA.
Position • Senior Research Fellow.
- Date • From Aug. 1st, 2006 to present.
Employer • Lamont-Doherty Earth Observatory of Columbia University, New York, USA.
Position • Adjunct Senior Research Scientist at the Lamont-Doherty Earth Observatory of Columbia University.
- Date • From Aug. 1st, 2006 to July 31st, 2016.
Employer • Dept. of Earth Sciences at Dalhousie University, Halifax, Nova Scotia, Canada.
Position • Canada Research Chair in Geophysics.
- Date • From Jul. 1st, 2015 to Dec. 31st, 2015.
Employer • Dept. of Earth Sciences at Dalhousie University, Halifax, Nova Scotia, Canada.
Position • Acting Chair.
- Date • From Aug. 1st, 2006 to July 1st, 2015.
Employer • Dept. of Earth Sciences at Dalhousie University, Halifax, Nova Scotia, Canada.
Position • Associate Professor.
- Interests • Rifting and drifting; oceanic crustal accretion, structure and evolution; subduction zone processes, megathrust earthquakes, and aseismic slip events; hydration/dehydration of oceanic plates and intraslab earthquakes; seismic imaging methodology; petroleum exploration at rifted margins; seismic oceanography; coastal effects of climate change, etc.
- Date • From August 1st, 2004 to July 31st, 2006.
Employer • Lamont-Doherty Earth Observatory of Columbia University, New York, USA.
Position • Doherty Associate Research Scientist.
Interests • Oceanic crustal structure and evolution; past climate record based on passive margin sedimentary record; subduction zone processes, megathrust earthquakes, and aseismic slip events; hydration/dehydration of oceanic plates and intraslab earthquakes, seismic imaging methodology, etc.
- Date • From July 28th, 2002, to July 31st, 2004.

Employer • Lamont-Doherty Earth Observatory of Columbia University, New York, USA.
Position • Post Doctoral Research Scientist.
Duties • Structural studies of the Southeast Indian and Juan de Fuca mid-ocean ridges from seismic reflection and other data.

Date • From October 7th, 2000, to July 27th, 2002.
Employer • Geological Survey of Canada - Pacific, Natural Resources Canada.
Position • Visiting Fellow.
Duties • Structural studies of the northern Cascadia and eastern Nankai subduction zones from seismic reflection, seismic tomography and seismicity data.

Date • From October 10th, 1991, to January 15th, 1993.
Employer • NIS-NAFTAGAS, Geophysical Institute, Belgrade, Yugoslavia.
Position • Geophysicist.
Duties • Acquired and processed 2D & 3D seismic reflection data for oil and gas exploration. Acquired, processed and interpreted shallow refraction data.

Date • Summers of 1986-1990.
Employer • D.Sc. Obrad Milošević, University of Belgrade, Belgrade, Yugoslavia.
Position • Research assistant at the Geophysics Laboratory.
Duties • Prepared labs for experimental training of students.

Fieldwork

Date • May - July, 2014 and 2015.
Employer • University of Texas at Austin.
Position • Co-chief scientist. Project NJ3D. 3D multichannel seismic imaging of the clinoform geometry offshore New Jersey. Cruises MGL1405 and MGL1510 on *R/V Marcus G. Langseth*.
Duties • In charge of the survey together with other co-PIs.

Date • June - July, 2012.
Employer • Columbia University.
Position • Co-chief scientist. Project Ridge2trench. 2D multichannel seismic and ocean bottom seismometer survey of the Juan de Fuca plate from ridge to trench. Cruises MGL1210 on *R/V Marcus G. Langseth* & OC1206A on *R/V Oceanus*.
Duties • In charge of the survey together with other co-PIs.

Date • June - August, 2011.
Employer • Columbia University.
Position • Co-chief scientist. Project ALEUT. 2D multichannel seismic and ocean bottom seismometer survey of the Alaska subduction zone from the SW end of Kodiak Island to Shumagin Islands. Cruise MGL1110 on *R/V Marcus G. Langseth*.
Duties • In charge of the survey together with other co-PIs.

Date • November, 2010.
Employer • Dalhousie University.

- Position • Chief scientist. Project OCTOPUS. 2D ocean bottom seismic survey of the the north-central Scotian margin. On *R/V Strait Explorer*.
- Duties • In charge of the survey.
- Date • September-October, 2010.
- Employer • Dalhousie University.
- Position • Co-chief scientist. Project OBWAVE. 2D ocean bottom seismometer survey of the Orphan Basin. On *R/V Strait Explorer*.
- Duties • In charge of the survey together with other co-PIs.
- Date • June-August, 2008.
- Employer • Columbia University.
- Position • Co-chief scientist. Project EPR 3D. 3D multichannel seismic survey of the East Pacific Rise at 9°50'N. First academic 3D MCS cruise with multiple source & receiver arrays. Cruise MGL0812 on *R/V Marcus G. Langseth*.
- Duties • In charge of the survey together with other co-PIs.
- Date • July, 2007.
- Employer • Dalhousie University.
- Position • Co-chief scientist. Project ROSE - Reflection Ocean Seismic Experiment. Hydrographic survey of the Gulf Stream offshore Nova Scotia, Canada, coincident with parts of the UNCLOS MCS survey. Cruise EN438 on *R/V Endeavour*. Groundtruthing seismic oceanography.
- Duties • Designed and carried out XBT and CTD surveys.
- Date • November, 2006.
- Employer • Columbia University.
- Position • Lead geophysicist. GPS study of current deformation across Calabria, S. Italy.
- Duties • Installation of a GPS profile of nine permanent stations.
- Date • July and August, 2002.
- Employer • Columbia University.
- Position • Acquisition geophysicist. Multichannel seismic survey EW0207 on *R/V Maurice Ewing*. Juan de Fuca ridge and its flanks. Structure and evolution of intermediate-spreading Juan de Fuca ridge and its flanks.
- Duties • Controlled data quality and produced initial seismic sections.
- Date • August, 2001.
- Employer • Geological Survey of Canada.
- Position • Acquisition geophysicist. High-resolution seismic reflection survey. Accretionary prism offshore Vancouver Island. Exploration for gas hydrates.
- Duties • Controlled data quality and produced initial seismic sections.
- Date • November, 1997.
- Employer • Geological Survey of Canada.
- Position • Acquisition geophysicist. Crustal scale seismic reflection survey. NW Ontario, Canada. Western Superior transect, Lithoprobe Project.

- Duties
- Controlled quality of data acquired by the contracted company.
- Date
- July, 1997.
- Employer
- University of Toronto.
- Position
- Acquisition geophysicist. Marine transient EM and compliance surveys. Continental shelf by the Vancouver Island. Exploration for methane hydrates.
- Duties
- Controlled data quality during the acquisition.
- Date
- December, 1996.
- Employer
- University of Toronto.
- Position
- Acquisition geophysicist. Small scale 3D resistivity and IP survey. Fort York, Toronto, Canada. Geophysical applications in archeology.
- Duties
- Laid-out, checked and picked-up instrumentation.
- Date
- July, 1996.
- Employer
- Geological Survey of Canada.
- Position
- Acquisition geophysicist. Crustal scale seismic refraction experiment. Western Superior transect. Lithoprobe Project.
- Duties
- Laid-out, checked and picked-up instrumentation by land and air.
- Date
- December, 1994.
- Employer
- University of Toronto.
- Position
- Acquisition geophysicist. Engineering scale 3D seismic reflection survey. East of Toronto in Durham Region.
- Duties
- Laid-out, checked and picked-up instrumentation.
- Date
- October, 1991 - January, 1993.
- Employer
- Geophysical Institute, NIS-NAFTAGAS.
- Position
- Acquisition geophysicist. Numerous 2D and 3D seismic reflection surveys in the southeastern Panonian Basin.
- Duties
- Designed surveys and supervised data collection.

Teaching experience

- Date
- Fall session 2014.
- Employer
- Department of Earth Sciences, Dalhousie University.
- Position
- Lecturer for graduate course Special Research Topics: Late Quaternary Geology of the Southern Beaufort Sea. (*Co-developed course.*)
- Duties
- Assignment and evaluation of bi-monthly student presentations based on sections of textbooks and journal publications.
- Date
- Winter sessions 2009-2012.
- Employer
- Department of Earth Sciences, Dalhousie University.
- Position
- Lecturer for undergraduate/graduate course “Advanced Seismic Imaging”. (*Co-developed course.*)
- Duties
- One 1 hour lecture and 3 hour lab every week. Evaluated lab assignments.
- Date
- Fall session 2010; Winter sessions 2014-2018.

- Employer • Department of Earth Sciences, Dalhousie University.
- Position • Lecturer for undergraduate/graduate course “Introduction to Seismic Imaging”. (*Co-developed course.*)
- Duties • One 1 hour lecture and 3 hour lab every week. Evaluated lab assignments.
- Date • Fall and Winter sessions 2007-2012, 2016-2018.
- Employer • Department of Earth Sciences, Dalhousie University.
- Position • Lecturer for graduate course “Research Design and Scientific Presentation”.
- Duties • One 4 hour lecture every other week. Guided graduate students to develop thesis proposals and presentations.
- Date • Winter sessions 2007-2012; 2014, 2017-2018.
- Employer • Department of Earth Sciences, Dalhousie University.
- Position • Lecturer for course “Introduction to Applied Geophysics”. (*Developed course.*)
- Duties • Three lectures & one tutorial/lab per week. Three/Four day field camp at the end of semester. Evaluated lab and field work, and mid-term and final exams.
- Date • Winter sessions 1998-1999 and 1999-2000.
- Employer • Department of Physics, University of Toronto.
- Position • Lab demonstrator and teaching assistant for the engineering and physics courses “Shallow Crust Geophysics”, “Experimental Applied Geophysics”, “Introduction to Archaeometry”, and “Physics and Archeology”.
- Duties • Two lab periods per week. Evaluated lab work, lab write-ups, and oral exams.
- Date • Winter sessions from 1993 to 2000, and summer sessions 1995-97 and 1999.
- Employer • Department of Physics, University of Toronto.
- Position • Lab demonstrator for first year physics courses.
- Duties • Two lab periods per week. Evaluated lab work, lab write-ups, formal reports and written exams.

Refereed publications

Summary: 10 in *Nature* journals, 4 in *Geology*, 9 in *J. Geophys. Res.*, 6 in *G-cubed*, 4 in *Earth Planet. Sci. Lett.*, 4 in *Geophysics*, 2 in *Geophys. J. Int.*, 2 in *Geophys. Res. Lett.*, etc.

In late stages of preparation

- 2018* [61] Kuehn, H., Nedimović, M. R., Shillington, D. J., Bécel, A., Delescluse, Loudon, K. E., Webb, S. C., Downtip limit of megathrust coupling and rupture at the Alaska subduction zone, to be submitted to *Science/Nature* in December 2018.
- 2018* [60] Kuehn, H., Nedimović, M. R., Shillington, D. J., Bécel, A., Delescluse, M. and Li, J., Megathrust segmentation caused by plate interface geometry at the Alaska subduction zone, to be submitted to *Science/Nature* in December 2018.
- 2018* [59] Lau, K. W. H., Nedimović, M. R. and Loudon, K. E., Characterizing the along-strike variations of the Tantallon subbasin continent-ocean transition at the northeastern Nova Scotia margin using wide-angle seismic observations, to be submitted to *J. Geophys. Res. Solid Earth* in October 2018.

- 2018 [58] Nedimović, M. R., Aghaei, O., Carbotte, S. M. and Canales, J. P., Moho formation at zero-age oceanic crust, to be submitted to *Science/Nature* in October 2018.
- 2018* [57] Boulahanis, B., Carbotte, S. M., Aghaei, O., Nedimović, M. R. and Canales, J. P., Testing the glacial cycle hypothesis for mid-ocean ridge melt supply using high resolution crustal thickness and bathymetry data from the East Pacific Rise, to be submitted to *Earth Planet. Sci. Lett.* in September 2018.

Submitted or in revision

- 2018* [56] Marjanović, M., Carbotte, S. M., Nedimović, M. R., Carton, H. and Canales, J. P., Segmentation of the crustal magmatic system beneath the East Pacific Rise 8⁰20' to 10⁰10'N, revision submitted to *J. Geophys. Res. Solid Earth*.

Published or in press

- 2018* [55] Lau, K. W. H., Nedimović, M. R. and Louden, K. E., Continent-ocean transition across the northeastern Nova Scotian margin from a dense wide-angle seismic profile, *J. Geophys. Res. Solid Earth* Vol. 123, No. 5, <https://doi.org/10.1029/2017JB015282>, 4331-4359.
- 2018* [54] Han, S., Carbotte, S. M., Canales, J. P., Nedimović, M. R. and Carton, H. M., Along-trench structural variations of the subducting Juan de Fuca plate from multichannel seismic reflection imaging, *J. Geophys. Res. Solid Earth*, Vol. 123, No. 4, <https://doi.org/10.1002/2017JB015059>, 3122-3146.
- 2018* [53] Li, J., Shillington, D. J., Saffer, D. M., Bécel, A., Nedimović, M. R., Kuehn, H., Webb, S. C., Abers, G. A. and Keranen, K. M., Connections between subducted sediment, pore-fluid pressure, and earthquake behavior along the Alaska megathrust, *Geology*, Vol. 46, No. 4, <https://doi.org/10.1130/G39557.1>, 299-302.
- 2017 [52] Canales, J. P., Carbotte, S. M., Nedimović, M. R. and Carton, H., Dry Juan de Fuca slab revealed by quantification of water entering Cascadia subduction zone, *Nat. Geosci.*, Vol 10, doi:10.1038/ngeo3050, 864-870.
- 2017* [51] *Bécel, A., Shillington, D. J., Delescluse, M., Nedimović, M. R., Abers, G. A., Saffer, D. M., Webb, S. C., Keranen, K. M., Roche, P.-H., Li, J. and Kuehn, H., Imaging of tsunamigenic structures in a creeping section of the Alaska subduction zone, *Nat. Geosci.*, Vol. 10, doi:10.1038/ngeo2990, 609-613.
- 2017* Editor's Highlight [50] Aghaei, O., Nedimović, M. R., Marjanović, M., Carbotte, S. M., Canales, J. P., Carton, H. and Nikić, N. (2017), Constraints on melt content of off-axis magma lenses at the East Pacific Rise from analysis of 3-D seismic amplitude variation with angle of incidence, *J. Geophys. Res. Solid Earth*, Vol. 122, No. 6, doi:10.1002/2016JB013785, 41234142.
- 2016 [49] Horning, G., Canales, J. P., Carbotte, S. M., Han, S., Carton, H. and Nedimović, M. R., A 2-D tomographic model of the Juan de Fuca plate from accretion at Axial Seamount to Subduction at the Cascadia margin from an active source OBS survey, *J. Geophys. Res. Solid Earth*, Vol. 121, No. 8, DOI: 10.1002/2016JB013228, 5859-5879.

- 2016 [48] Nedimović, M. R., Plate tectonics: Delayed response to mantle pull, *Nat. Geosci.*, Vol. 9, No. 8, doi:10.1038/ngeo2746, 571-572.
- 2016* [47] Han, S., Carbotte, S. M., Canales, J. P., Nedimović, M. R., Carton, H., Gibson, J. C. and Horning, G., Seismic reflection imaging of the Juan de Fuca plate from ridge to trench: New constraints on the distribution of faulting and evolution of the crust prior to subduction, *J. Geophys. Res. Solid Earth*, Vol. 121, No. 3, DOI: 10.1002/2015JB012416, 1849-1872.
- 2016* [46] Forde, T. C., Nedimović, M. R., Gibling, M. R. and Forbes, D. L., Coastal evolution over the past 3000 years at Conrads Beach, Nova Scotia: the influence of local sediment supply on a transgressive system, *Estuaries and Coasts*, Vol. 39, No. 2, DOI 10.1007/s12237-015-0016-6, 363-384.
- 2016* [45] Biescas, B., Ruddick, B., Kormann, J., Sallares, V., Nedimović, M. R. and Carniel, S., Synthetic modeling for an acoustic exploration system for physical oceanography, *Journal of Marine Systems*, Vol. 33, DOI: 10.1175/JTECH-D-15-0137.1, 191-200.
- 2015* [44] Li, J., Shillington, D. J., Bécel, A., Nedimović, M. R., Webb, S. C., Abers, G. A., Keranen, K. M. and Kuehn, H., Downtip variations in seismic reflection character: Implications for fault structure and seismogenic behavior in the Alaska subduction zone, *J. Geophys. Res. Solid Earth*, Vol. 120, 10.1002/2015JB012338, 7883-7904.
- 2015 [43] Shillington, J., Bécel, A., Nedimović, M. R., Kuehn, H., Webb, S. C., Abers, G. A., Keranen, K. M., Li, J., Delescluse, M. and Mattei-Salicrup, G. A., Controls on abrupt changes in faulting, hydration and seismicity in the Alaska subduction zone, *Nat. Geosci.*, Vol. 8, DOI: 10.1038/NGEO2586, 961-965.
- 2015* [42] Marjanović, M., Carton, H., Carbotte, S. M., Nedimović, M. R., Mutter, J. C. and Canales, J. P., Distribution of melt along the East Pacific Rise from 9⁰30' to 10⁰N from an amplitude variation with angle of incidence (AVA) technique, *Geophys. J. Int.* Vol. 203, doi: 10.1093/gji/ggv251, 1-21.
- 2015* [41] Lau, H., Watremez, L., Loudon, K. E. and Nedimović, M. R., Structure of thinned continental crust across the Orphan Basin from a dense wide-angle seismic profile, *Geophys. J. Int.*, Vol. 202, doi: 10.1093/gji/ggv261, 1969-1992.
- 2015* [40] Bécel, A., Shillington, D. J., Nedimović, M. R., Webb, S. C. and Kuehn, H., Origin of dipping reflections in the lower crust formed at fast-to-intermediate spreading rates, *Earth Planet. Sci. Lett.*, Vol. 424, <http://dx.doi.org/10.1016/j.epsl.2015.05.016>, 2637.
- 2015* [39] Watremez, L., Lau, H., Nedimović, M. R. and Loudon, K. E., Traveltime tomography of a dense wide-angle profile across Orphan Basin, *Geophysics*, Vol. 80, No. 3, doi:10.1190/GEO2014-0377.1, B69-B82.
- 2014* [38] Marjanović, M., Carbotte, S. M., Carton, H., Nedimović, M. R., Mutter, J. C. and Canales, J. P., A multi-sill magma plumbing system beneath the axis of the East Pacific Rise, *Nat. Geosci.*, Vol. 7, doi:10.1038/NGEO2272, 825-829.

- 2014 [37] Arnulf, A., Harding, A., Kent, G., Carbotte, S. M., Canales, J. P., Nedimović, M. R., Anatomy of an active submarine volcano, *Geology*, Vol. 48, No. 8, doi:10.1130/G35629.1, 655-658.
- 2014* [36] Biescas, B., Ruddick, B., Nedimović, M. R., Sallarès, V., Bornstein, G. and Mojica, J., Recovery of temperature, salinity and potential density from ocean reflectivity, *J. Geophys. Res. Oceans*, Vol. 119, doi:10.1002/2013JC009662, 3171-3184.
- 2014 [35] Xu, M., Canales, J. P., Carbotte, S. M., Carton, H., Nedimović, M. R. and Mutter, J. C., Variations in axial magma lens properties along the East Pacific Rise (9°30'-10°00') from swath 3D seismic imaging and 1D waveform inversion, *J. Geophys. Res. Solid Earth*, Vol. 119, doi:10.1002/2013JB010730, 2721-2744.
- 2014* [34] Aghaei, O., Nedimović, M. R., Carton, H., Canales, J. P., Carbotte, S. M. and Mutter, J. C., Crustal thickness and Moho character of the fast-spreading East Pacific Rise from 9°42'-57'N from poststack-migrated 3D MCS data, *Geochem. Geophys. Geosyst.*, Vol. 15, doi:10.1002/2013GC005069, 634-657.
- 2014* [33] Han, S., Carbotte, S. M., Carton, M., Mutter, J. C., Aghaei, O., Nedimović, M. R. and Canales, J. P., Architecture of off-axis magma bodies at EPR 9°37'-40'N and implications for oceanic crustal accretion, *Earth Planet. Sci. Lett.*, Vol. 390, <http://dx.doi.org/10.1016/j.epsl.2013.12.040>, 31-44.
- 2013 [32] Carbotte, S. M., Marjanović, M., Carton, H., Mutter, J. C., Canales, J. P., Nedimović, M. R., Han, S. and Perfit, M. R., Fine-scale segmentation of the crustal magma reservoir beneath the East Pacific Rise, *Nat. Geosci.* Vol. 6, doi:10.1038/NGEO1933, 866-870.
- 2012* [31] Gerlings, J., Louden, K. E., Minshull, T. A. and Nedimović, M. R., The Flemish Cap - Goban Spur conjugate margins: New evidence of asymmetry, *Geology*, Vol. 40, doi:10.1130/G33263.1, 1107-1110.
- 2012 [30] Canales, J. P., Carton, H., Mutter, J. C., Harding, A., Carbotte, S. M. and Nedimović, M. R., Recent advances in multichannel seismic imaging for academic research in deep oceanic environments, *Oceanography*, Vol. 25, No. 1, <http://dx.doi.org/10.5670/oceanog.2012.09>, 113-115.
- 2012 [29] Carbotte, S. M., Canales, J. P., Nedimović, M. R., Carton, H. and Mutter, J. C., Recent seismic studies at the East Pacific Rise 8°20'-10°10'N and Endeavour Segment: Insights into mid-ocean ridge hydrothermal and magmatic processes, *Oceanography*, Vol. 25, No. 1, <http://dx.doi.org/10.5670/oceanog.2012.08>, 100-112.
- 2012 [28] Canales, J. P., Carton, H., Carbotte, S. M., Mutter, J. C., Nedimović, M. R., Hu, M., Aghaei, O., Marjanović, M. and Newman, K. R., Network of off-axis melt bodies at the East Pacific Rise, *Nat. Geosci.*, Vol. 5., DOI: 10.1038/NGEO1377, 279-283.
- 2011 [27] D'Agostino, N., D'Anastasio, E., Gervasi, A., Guerra, I., Nedimović, M. R., Seeber, L. and Steckler, M., Forearc extension and slow rollback of the Calabrian Arc from GPS measurements, *Geophys. Res. Lett.*, Vol. 38, L17304, doi:10.1029/2011GL048270, 1-6.

- 2011* [26] Marjanović, M., Carbotte, S. M., Nedimović, M. R. and Canales, J. P., Gravity and seismic study of crustal structure along the Juan de Fuca Ridge axis and across pseudofaults on the ridge flanks, *Geochem. Geophys. Geosyst.*, Vol. 12, No. 5, Q05008, doi:10.1029/2010GC003439, 1-22.
- 2011* [25] Newman, K. R., Nedimović, M. R., Canales, J. P. and Carbotte, S. M., Evolution of seismic layer 2B across the Juan de Fuca Ridge from hydrophone streamer 2D travelttime tomography, *Geochem. Geophys. Geosyst.*, Vol. 12, No. 5, Q05009, doi:10.1029/2010GC003462, 1-24.
- 2011* [24] Delescluse, M., Nedimović, M. R. and Louden, K. E., 2D waveform tomography applied to long-streamer MCS data from the Scotian slope, *Geophysics*, Vol. 76, No. 4, doi:10.1190/1.3587219, B151-B163.
- 2010* [23] Mirshak, R., Nedimović, M. R., Greenan, B. J. W., Ruddick, B. R. and Louden, K. E., Coincident reflection images of the Gulf Stream from seismic and hydrographic data, *Geophys. Res. Lett.*, Vol. 37, L05602, doi:10.1029/2009GL042359, 1-5.
- 2010 [22] Baran, J. M., Carbotte, S. M., Cochran, J. R. and Nedimović, M. R., Upper crustal seismic structure along the South East Indian Ridge: Evolution from 0 to 550 ka and variation with axial morphology, *Geochem. Geophys. Geosyst.*, Vol. 11, No. 3, Q02001, doi:10.1029/2009GC002629, 1-22.
- 2009 [21] Mutter, J. C., Carbotte, S. M., Nedimović, M. R., Canales, J. P. and Carton, H., Seismic imaging in three dimensions on the East Pacific Rise, *Eos Trans. AGU*, 90(42), 374-375.
- 2009 [20] Canales, J. P., Nedimović, M. R., Kent, G. M., Carbotte, S. M. and Detrick, R. S., Seismic reflection images of a near-axis melt sill within the lower crust at the Juan de Fuca Ridge, *Nature*, Vol. 460, doi:10.1038/nature08095, 89-93.
- 2009 [19] Nedimović, M. R., Bohnenstiehl, D. R., Carbotte, S. M., Canales, J. P. and Dziak, R. P., Faulting and hydration of the Juan de Fuca plate system, *Earth Planet. Sci. Lett.*, Vol. 284, No. 1-2, doi:10.1016/j.epsl.2009.04.013, 94-102.
- 2008 [18] Nedimović, M. R., Carbotte, S. M., Diebold, J. B., Harding, A. J., Canales, J. P. and Kent, G. M., Upper crustal evolution across the Juan de Fuca ridge flanks, *Geochem. Geophys. Geosyst.*, Vol. 9, No. 9, Q09006, doi:10.1029/2008GC002085, 1-23.
- 2008 [17] Carbotte, S. M., Nedimović, M. R., Canales, J. P., Kent, G. M., Harding, A. J. and Marjanovic, M., Variable crustal structure along the Juan de Fuca Ridge; influence of on-axis hotspots and absolute plate motions, *Geochem. Geophys. Geosyst.*, Vol. 9, No. 8, Q08001, doi:10.1029/2007GC001922, 1-23.
- 2007 [16] van Ark, E. M., Detrick, R. S., Canales, J. P., Carbotte, S. M., Harding, A. J., Kent, G. M., Nedimović, M. R., Wilcock, W. S. D., Diebold, J. B. and Babcock, J. M., Seismic structure of the Endeavour segment, Juan de Fuca ridge: Correlations with seismicity and hydrothermal activity, *J. Geophys. Res. Solid Earth*, Vol. 112, B02401, doi:10.1029/2005JB004210, 1-22.

- 2006 (Invited) [15] Nedimović, M. R. and Bangs, N. L., Mapping great earthquake rupture areas, *in* *Imaging Earth History Beneath the Ocean Floor; Three Decades of Major Scientific Accomplishments*, Advisory Board: Holbrook, W. S., Menke, W., Solomon, S., Tucholke, B., *NSF Booklet*, 7.
- 2006 (Invited) [14] Nedimović, M. R., Crustal structure and seismicity at subduction zones, *Zapisi Srpskog Geološkog Društva (Records of the Serbian Geological Society)*, 2004-5 Vol., 51-66.
- 2006 [13] Hayward, N., Nedimović, M. R., Calvert, A. J. and Cleary, M., Structural variation along the Devils Mountain fault zone, Northwestern Washington, *Can. J. Earth Sci.*, Vol. 43, No 4, 433-446.
- 2006 [12] Carbotte, S. M., Detrick, R. S., Harding, A. J., Babcock, J. M., Canales, J. P., Diebold, J. B., Kent, G. M., Nedimović, M. R. and Van Ark, E., Rift topography linked to magmatic processes at the intermediate spreading Juan de Fuca ridge, *Geology*, Vol. 34, No. 3, doi: 10.1130/G21969.1, 209-212.
- 2006 [11] Canales, J. P., Satish S. C., Detrick, R. S., Carbotte, S. M., Harding, A. J., Kent, G. M., Diebold, J. B., Babcock, J. M. and Nedimović, M. R., Seismic evidence for variations in axial magma chamber properties along the southern Juan de Fuca ridge, *Earth Planet. Sci. Lett.* Vol. 246, 353-366.
- 2005 [10] Nedimović, M. R., Carbotte, S. M., Harding, A. J., Detrick, R. S., Canales, J. P., Diebold, J. B., Kent, G. M., Tischer, M. and Babcock, J. M., Frozen magma lenses below the oceanic crust, *Nature*, Vol. 436, 1149-1153.
- 2005 [9] Baran, J. M., Cochran, J. R., Carbotte, S. M. and Nedimović, M. R., Variations in upper crustal structure due to variable mantle temperature along the Southeast Indian ridge, *Geochem. Geophys. Geosyst.* Vol. 6, No. 1, Q11002, doi:10.1029/2005GC000943, 1-21.
- 2005 [8] Zühlsdorff, L., Hutnak, M., Fisher, A. T., Spiess, V., Davis, E. E., Nedimović, M. R., Carbotte, S. M., Villinger, H. and Becker, K., Site surveys related to IODP Expedition 301: ImageFlux (SO149) and RetroFlux (TN116) expeditions and earlier studies, in Fisher, A.T., Urabe, T., Klaus, A., and the Expedition 301 Scientists, *Proc. IODP, 301: College Station TX (Integrated Ocean Drilling Program Management International, Inc.)*, doi:10.2204/iodp.proc.301.102.2005, 1-48.
- 2005 [7] Canales, J. P., Detrick, R. S., Carbotte, S. M., Kent, G. M., Diebold, J. B., Harding, A. J., Babcock, J. M., Nedimović, M. R. and van Ark, E., Upper crustal structure and axial topography at intermediate-spreading ridges: Seismic constraints from the southern Juan de Fuca ridge, *J. Geophys. Res. Solid Earth*, Vol. 110, No. B12, B12104, doi:10.1029/2005JB003630, 1-27.
- 2003 [6] Nedimović, M. R., Hyndman, R. D., Ramachandran, K. and Spence G. D., Reflection signature of seismic and aseismic slip on the northern Cascadia subduction thrust, *Nature*, Vol. 424, 416-420.

- 2003 [5] Nedimović, M. R., Mazzotti, S. and Hyndman, R. D., Three-dimensional structure from feathered two-dimensional seismic reflection data; The eastern Nankai trough, *J. Geophys. Res. Solid Earth*, Vol. 108, No. B10, 2456, doi:10.1029/2002JB001959, 1-14.
- 2003 [4] Nedimović, M. R. and West, G. F., Crooked line 2D seismic reflection imaging in crystalline terrains: Part I, data processing, *Geophysics*, Vol. 68, No. 1, 274-285.
- 2003 [3] Nedimović, M. R. and West, G. F., Crooked line 2D seismic reflection imaging in crystalline terrains: Part II, migration, *Geophysics*, Vol. 68, No. 1, 286-296.
- 2002 [2] Nedimović, M. R. and West, G. F., Shallow three-dimensional structure from two-dimensional crooked line seismic reflection data over the Sturgeon Lake volcanic complex, *Economic Geology*, Vol. 97, No. 8, 1779-1794.
- 2000 [1] Nedimović, M. R., Seismic reflection imaging in crystalline terrains, Ph.D. thesis, University of Toronto, Toronto, Canada.
- Note:** • **Electronic versions of all publications are available for download at <http://dig.earthsciences.dal.ca/mladen/>. Star (*) indicates work by a graduate student or a postdoc supervised/co-supervised by Nedimović, or a graduate student where Nedimović is a graduate committee member.**

Abstracts, keynotes, proceedings, newsletters, not refereed publications and reports

- 2018* [191] Aali, M., Nedimović, M. R., Mountain, G., Fulthorpe, G. S., Austin, J., Richards, B. and Watson, N., Testing sequence stratigraphic models through highresolution 3D seismic imaging of Miocene foresets on the New Jersey shallow shelf, 2018 Conjugate Margins Conference, Halifax, N.S., 19-22 Aug.
- 2018* [190] Lau, K. W. H., Nedimović, M. R. and Loudon, K. E., Detailed structure of a magmapoor continentocean transition offshore northeastern Nova Scotia based on an alongstrike wideangle seismic profile (OCTOPUS), 2018 Conjugate Margins Conference, Halifax, N.S., 19-22 Aug.
- 2017 [189] Canales, J. P., Carbotte, S. M., Nedimović, M. R. and Carton, H. D., Dry Juan de Fuca slab revealed by quantification of water entering Cascadia subduction zone, 2017 Fall Meeting, AGU, New Orleans, LA., 11-15 Dec.
- Invited
- 2017 [188] Zhu, J., Canales, J. P., Han, S., Carbotte, S. M., Arnulf, A. F. and Nedimović, M. R., Vp/Vs Ratio of Juan de Fuca Plate Sediments Along the Cascadia Deformation Front From Analysis of Controlled-Source Multi-Component OBS Records, 2017 Fall Meeting, AGU, New Orleans, LA., 11-15 Dec.
- 2017 [187] Boulahanis, B., Aghaei, O., Carbotte, S. M., Huybers, P. J., Langmuir, C. J., Nedimović, M. R., Carton, H. D. and Canales, J. P., Mid-ocean ridge melt supply and glacial cycles: A 3D EPR study of crustal thickness, layer 2A, and bathymetry, 2017 Fall Meeting, AGU, New Orleans, LA., 11-15 Dec.

- 2017* [186] Lau, K. W. H., Nedimović, M. R. and Louden, K. E., A model of the continent-ocean transition across the NE Nova Scotia margin from coincident dense wide-angle refraction and long-streamer reflection profiles, 5th Conjugate Margins Conference, Pernambuco, Brazil, Aug. 22-25.
- 2017* [185] Perosi, F., Nedimović, M. R., Louden, K. E., Lau, K. W. H. and Watremez, L, Smooth velocity model from travelttime tomography of a dense dense wide-angle profile collected offshore Nova Scotia, 5th Conjugate Margins Conference, Pernambuco, Brazil, Aug. 22-25.
- 2017* [184] Perosi, F., Nedimović, M. R., Louden, K. E. and Lau, K. W. H., Smooth velocity model from travelttime tomography of an offshore dense wide-angle profile in Nova Scotia: preliminary results, 15th International Congress of the Brazilian Geophysical Society & EXPOGEF, Rio de Janeiro, Brazil, Jul. 31-Aug. 3.
- 2017* [183] Kuehn, H., Nedimović, M. R. and the ALEUT team, A figure contribution to the Full Wavefield Seismic Imaging section of the The SZ4D Initiative: Understanding the Processes that Underlie Subduction Zone Hazards in 4D, p 27.
Invited
- 2017* [182] Kuehn, H., Nedimović, M. R., Shillington, D. J., Bécel, A., Li, J., Delescluse M., Webb, S. C. and Louden, K. E., 3D model of the subducting plate interface between Kodiak Island and Shumagin Islands offshore the Alaska Peninsula, EARTHSCOPE National Meeting, Anchorage, Alaska, May 16-18.
- 2017 [181] Roche, P.-H., Delescluse, M., Bécel, A., Nedimović, M. R., Shillington, D. J., Webb, S. C. and Kuehn, H., Long streamer waveform tomography imaging of the Sanak Basin, Alaska subduction zone, Geophysical Research Abstracts, Vol. 19, 2017 EGU General Assembly, Vienna.
- 2016 [180] Nedimović, M. R., Hybrid 3D P-cable and MCS survey offshore New Jersey, Marcus Langseth Science Oversight Committee workshop at the 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
Invited
- 2016 [179] Nedimović, M. R., Science targets for offshore geophysical instrumentation in western Canada, A GeoPRISMS Pre-AGU Mini-workshop: Investigating the Western Canada plate boundary with a large-scale Canadian Cordillera Seismic Array and GPS network (CCArray), 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
Invited
- 2016* [178] Kuehn, H., Nedimović, M. R., Shillington, D. J., Bécel, A., Li, J., Webb, S. C. and Louden, K. E., 3D map of subduction zone geometry off the Alaska Peninsula, Abstract T11D-2643 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- 2016* [177] Han, S., Canales, J. P., Carbotte, S. M., Nedimović, M. R., Carton, H. D. and Gibson, J. C., Seismic reflection imaging of the Juan de Fuca plate from ridge to trench: new constraints on the distribution of faulting and evolution of the crust prior to subduction, Abstract T22C-03 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
Invited

- 2016
Invited [176] Shillington, D. J., Li, J., Bécél, A., Nedimović, M. R., Kuehn, H., Abers, G. A., Keranen, K. M., Webb, S. C. and Saffer, D. M., Seismic imaging all along the Alaska subduction megathrust, Abstract S33F-01 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- 2016 [175] Boulahanis, B., Canales, J. P., Carbotte, S. M., Carton, H., Han, S., and Nedimović, M. R., Constraining the velocity structure of the Juan de Fuca plate from ridge to trench with a 2D tomographic study of wide angle OBS data, Abstract T22C-04 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- 2016 [174] Azarm, R., Carton, H., Carbotte, S. M., Han, S., Canales, J. P. and Nedimović, M. R., Travel time tomographic imaging of shallow fore-arc basin structure at the Cascadia subduction zone offshore Washington and Oregon, Abstract T31D-2932 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- 2016* [173] Biescas-Gorriz, B., Ruddick, B., Nedimović, M. R., Sallares V., Bornstein, G. and Mojica, J. F., Thermohaline intrusions observation using acoustic reflectivity, 48th Liège Colloquium, Liège, Belgium.
- 2016* [172] Kuehn, H., Nedimović, M. R., Shillington, D. J., Li, J., Bécél, A. and Delescluse, M., Characterization of geometry, properties and coupling of the Alaska subduction zone by means of reflection images and traveltimes tomography, Geophysical Research Abstracts, Vol. 18, EGU2016-15686, EGU General Assembly, Vienna, Austria.
- 2015 [171] Nedimović, M. R., Mountain, G., Austin, J. A., Fulthorpe, C. S., Aali, M., Baldwin, K., Bhatnagar, T., Johnson, C., Kucuk, H. M., Newton, A. and Stanley, J. N., Sea level history in 3D: Data acquisition and processing for an ultra-high resolution MCS survey across IODP Expedition 313 drillsite, Abstract OS21A-1961 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
- 2015 [170] Mountain, G., Nedimović, M. R., Austin, J. A., Fulthorpe, C. S., Aali, M., Baldwin, K., Bhatnagar, T., Johnson, C., Kucuk, H. M., Newton, A. and Stanley, J. N., Sea level history in 3D: Early results of an ultra-high resolution MCS survey across IODP Expedition 313 drillsites, Abstract OS21A-1962 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
- 2015 [169] Bécél, A., Shillington, D. J., Nedimović, M. R., Webb, S. C. and Kuehn, H., Seismic structure of the 50 Myr fast and intermediate North Pacific oceanic crust off Alaska, Abstract V12A-05 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
- 2015 [168] Han, S., Gibson, J., Carbotte, S. M., Canales, J. P., Nedimović, M. R., and Carton, H., Seismic velocity structure of the sediment seaward of Cascadia Subduction Zone deformation front, Abstract T51D-2900 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.

- 2015 [167] Leroy, S., Cannat, M., Momoh, E., Singh, S., Watremez, L., Sauter, D., Autin, J., Loudon, K., Nedimović, M. R., Daniel, R., Jourdain, A., Huot, G., Sergeant, L. and Wang, S., Seismic structure of an amagmatic section of the ultra-slow spreading South West Indian Ridge: the 2014 Sismosmooth cruise, Abstract V21A-3027 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
- 2015 [166] Boulahanis, B., Carbotte, S. M., Huybers, P., Langmuir, C., Han, S., Aghaei, O., Canales, J. P., Nedimović, M. R. and Menke, W., Mid-ocean ridge magma supply and glacial cycles: long time series studies of crustal thickness and seafloor topography, Abstract V53A-3126 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
- 2015 [165] Marjanović, M., Carbotte, S. M., Carton, H., Nedimović, M. R. Mutter, J. C. and Canales, J. P., Seismic images of multiple magma sills beneath the East Pacific Rise, 77th EAGE Conference and Exhibition 2015, DOI:10.3997/2214-4609.201413286, Madrid, Spain.
- 2015* [164] Biescas-Gorritz, B., Ruddick, B., Nedimović, M. R., Sallares V., Bornstein, G. and Mojica, J. F., Temperature and salinity observations with high lateral resolution using acoustic data in the Gulf of Cadiz, NE Atlantic Ocean, Geophysical Research Abstracts, Vol. 17, EGU2015-12034, EGU General Assembly, Vienna, Austria.
- 2015 [163] Nedimović, M. R., An emerging new view on oceanic crustal formation from poststack and prestack time migrated 3D MCS data: The fast-spreading East Pacific Rise between 9°37.5' and 9°57'N, *Scientific Drilling in the Indian Ocean Crust and Mantle*, US-China IODP Workshop, Woods Hole Oceanographic Institution, Woods Hole, MA, 13-16 May.
- Invited
- 2014 [162] Vadim, L., Nedimović, M. R., Withjack, M., Carbotte, S. M., Loudon, K. E. and Beaumont, C., Why can the breakup of the continental lithosphere take different paths? Understanding the transition from magmatic to amagmatic rifting, Workshop on the Future of the Amphibious Array, Snowbird, UT, October 23-24.
- 2014 [161] Haeussler, P., Abers, G., Bangs, N., Bécel, A., Briggs, R., Engelhart, S., Freymueller, J., Gulick, S., Koehler, R., Nedimović, M. R., Nelson, A., Parsons, T., Roland, E., Shillington, D., Witter, R. and Worthington, L., A proposed “megathrust megaswath” OBS deployment in southern Alaska, Workshop on the Future of the Amphibious Array, Snowbird, UT, October 23-24, 2014.
- 2014 [160] Nedimović, M. R., Marine geophysics at Dalhousie University, Canadian Society for Exploration Geophysics (CSEG) *Recorder*, Vol. 39, No. 07, 40-42.
- Invited
- 2014 [159] Shillington, D. J., Bécel, A., Nedimović, M. R., Li, J., Kuehn, H., Webb, S. C., Abers, G. A., Keranen, K. M. and Saffer D. M., Downdip and along-strike variations in the properties of the Alaska megathrust from active-source seismic imaging, Abstract T11A-4535 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- Invited

- 2014
Invited [158] Nedimović, M. R., Aghaei, O., Carbotte, S. M., Carton, H. and Canales, J. P., Crustal thickness and Moho character of the fast-spreading East Pacific Rise between 9°37.5' and 9°57'N from poststack and prestack time migrated 3D MCS data, Abstract V22A-01 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- 2014* [157] Li, J., Shillington, D. J., Bécel, A., Nedimović, M. R., Kuehn, H., Webb, S. C., Abers, G. A., Keranen, K. M. and Saffer, D. M., Shallow velocity structure of the Alaska Peninsula subduction zone and implications for controls on seismic behavior, Abstract T11A-4537 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- 2014 [156] Horning, G., Canales, J. P., Carbotte, S. M. and Nedimović, M. R. and Carton, H., Crustal structure and evolution of the southern Juan de Fuca plate from wide-angle seismic data: Insights into the hydration state of the incoming plate off Cascadia subduction zone, Abstract T51B-4616 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- 2014 [155] Han, S., Carbotte, S. M., Carton, H., Canales, J. P. and Nedimović, M. R., Seismic reflection imaging of subduction bending-related faults at Cascadia, Abstract T51B-4617 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- 2014 [154] Gibson, J. C., Carbotte, S. M., Shuoshuo, Nedimović, M. R., Canales, J. P. and Carton, H., Analysis of faulting and sediment velocity characteristics outboard of the Cascadia deformation front from multi-channel seismic data, Abstract T51B-4614 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- 2014 [153] Carton, H., Carbotte, S. M., Mutter, J. C., Canales, J. P. and Nedimović, M. R., Axial magma system geometry beneath a fast-spreading mid-ocean ridge: Insight from three-dimensional seismic reflection imaging on the East Pacific Rise 9°42' to 9°57'N, Abstract V22A-02 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- 2014 [152] Canales, J. P., Carbotte, S. M., Carton, H. and Nedimović, M. R., State of hydration of the Juan de Fuca plate along the Cascadia deformation front from controlled-source wide-angle seismic data, Abstract T51B-4615 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- 2014* [151] Whalen, D., Forbes, D. L., Fraser, P., Manson, G. K. and Nedimović, M. R., Nearshore and harbour sedimentation in the southeastern Beaufort Sea, Tuktoyaktuk, Canada, Coastal Zones Canada Meeting abstract, Halifax, Canada, 15-19 Jun.
- 2014* [150] Lau, H., Watremez, L., Loudon, K. E., Nedimović, M. R. and Karner, G., Orphan Basin crustal structure from a dense wide-angle seismic profile - layered modeling, Geophysical Research Abstracts, Vol. 16, EGU2014-14521, EGU General Assembly, Vienna, Austria.

- 2014* [149] Watremez, L., Lau, H., Nedimović, M. R., Louden, K. E. and Karner, G., Orphan Basin crustal structure from a dense wide-angle seismic profile - Tomographic inversion, Geophysical Research Abstracts, Vol. 16, EGU2014-11385, EGU General Assembly, Vienna, Austria.
- 2014 [148] Ruddick, B., Biescas, B., Nedimović, M. R., Sallarès, V. and Bornstein, G., Synthetic trials of a coherent-source multichannel seismic system for oceanography, Ocean Sciences Meeting, Honolulu, Hawaii, 23-28 Feb.
- 2014* [147] Biescas, B., Ruddick, B., Nedimović, M. R., Sallarès, V. and Bornstein, G., Recovery of temperature, salinity and potential density from acoustic reflectivity of the ocean, Ocean Sciences Meeting, Honolulu, Hawaii, 23-28 Feb.
- 2014 [146] Shillington, D. J., Bécel, A., Nedimović, M. R., Kuehn, H., Webb, S. C., Li, J., Keranen, K. and Abers, G., Evidence for local controls on hydration at the outer rise in the Alaska subduction zone, OBSIP Meeting, Redondo Beach, Calif., 21-22 Oct.
- 2014 [145] Canales, J. P., Carton, H., Carbotte, S. M. and Nedimović, M. R., Active source OBS investigation of the seismic structure of the Juan de Fuca plate along the Cascadia deformation front, OBSIP Meeting, Redondo Beach, Calif., 21-22 Oct.
- 2014* [144] Lau, K. W. H., Watremez, L., Nedimović, M. R., Louden, K. E. and Karner, G., Orphan Basin crustal structure from a dense wide-angle seismic profile - Tomographic inversion and layered modeling, OBSIP Meeting, Redondo Beach, Calif., 21-22 Oct.
- 2013* [143] Bécel, A., Shillington, D. J., Michaelson-Rotermund, C., Nedimović, M. R., Keranen K., Li, J., Kuehn, H. and Webb, S. C., Plate boundary and major fault system in the overriding plate within the Shumagin gap at the Alaska-Aleutian subduction zone, Abstract FM13-T43D-2696 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013
Invited [142] Carbotte, S. M., Canales, J. P., Carton, H., Han, S., Gibson, J., Janiszewski, H., Horning, G. and Nedimović, M. R., Juan de Fuca plate Ridge-to-Trench Experiment: initial results from active source seismic imaging of the Juan de Fuca plate and Cascadia fore-arc, Abstract FM13-S12A-04 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013* [141] Michaelson-Rotermund, C., Delescluse, M., Bécel, A., Nedimović, M. R., Shillington, D. J., Louden, K. E. and Webb, S. C., Deciphering the mechanics of an imaged fault system in the over-riding plate at the Shumagin Seismic Gap, Alaska subduction zone using MCS waveform tomography, Abstract FM13-T43D-2695 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013 [140] Shillington, D. J., Bécel, A., Nedimović, M. R., Kuehn, H., Webb, S. C., Li, J., Keranen, K. and Abers, G., Local structural controls on outer-rise faulting, hydration, and seismicity in the Alaska subduction zone, Abstract FM13-T54B-06 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

- 2013 [139] Horning, G., Canales, J. P., Carton, H., Carbotte, S. M. and Nedimović, M. R., A 2-D tomographic model of the Juan de Fuca plate from accretion at Axial Seamount to subduction at the Cascadia margin from an active source OBS survey, Abstract FM13-S21C-2447 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013 [138] Carton, H., Canales, J. P., Janiszewski, S., Carbotte, S. M., Abers, G., Trehu, A. and Nedimović, M. R., Structure of the Juan de Fuca plate and Washington forearc from 2D travel time tomography of OBS and land seismometer data along an east-west transect, Abstract FM13-S21C-2444 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013 [137] Gibson, J. C., Carbotte, S. M., Shuoshuo, H., Carton, H., Canales, J. P. and Nedimović, M. R., Pockmarks, fluid flow, and sediments outboard of the deformation front at the Cascadia Subduction Zone from analysis of multi-channel seismic and multi-beam sonar data, Abstract FM13-S21C-2418 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013* [136] Li, J., Bécel, A., Shillington, D. J., Nedimović, M. R., Kuehn, H. and Webb, S. C., Constraints from seismic reflection signature on the seismogenic region in the Alaska/Aleutian subduction zone from the 1938 Alaska rupture zone to the Shumagin gap, Abstract FM13-T53F-02 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013* [135] Marjanović, M., Carbotte, S. M., Carton, H., Mutter, J. C., Nedimović, M. R. and Canales, J. P., Seismic images of multiple magma sills beneath the East Pacific Rise, Abstract FM13-OS42A-05 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013 [134] Canales, J. P., Carton, H., Carbotte, S. M. and Nedimović, M. R., Variations in seismic structure of the incoming Juan de Fuca plate along the Cascadia deformation front, Abstract FM13-S21C-2443 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013 [133] Han, S., Carbotte, S. M., Carton, H., Canales, J. P. and Nedimović, M. R., Multichannel seismic images of Cascadia forearc structure at the Oregon margin, Abstract FM13-S21C-2440 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013 [132] Han, S., Carbotte, S. M., Carton, H., Mutter, J. C., Nedimović, M. R. and Canales, J. P., Architecture of off-axis magma bodies at EPR 9^o37'-40'N and implication for oceanic crustal accretion, Abstract FM13-OS42A-04 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013 [131] Trehu, A. and CIET, Coast and Ridge2Trench (including Nedimović, M. R.) working groups, Correlations between crustal structure and slip on the Cascadia megathrust, Abstract FM13-S11C-04 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013* [130] Bécel, A., Shillington, D. J., Nedimović, M. R., Kuehn, H. and Webb, S. C., Constraints on the plate interface at the Alaska-Aleutian subduction zone from MCS and OBS data of the ALEUT Project, Geophysical Research Abstracts, Vol. 15, EGU2013-10828, EGU General Assembly, Vienna, Austria.

- 2012* [129] Bécel, A., Shillington, D. J., Nedimović, M. R., Kuehn, H., Webb, S. C. and Holtzman, B. K., Seismic structure of the North Pacific oceanic crust prior plate bending at the Alaska subduction zone, Abstract 1495231 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
- 2012* [128] Biescas-Gorriz, B., Mojica, J. F., Bornstein, G., Bartlett, A., Nedimović, M. R., Sallares, V., Ruddick, B. R., Carbotte, S. M., Canales, J. P. and Carton, H. D., Exploration of the California Current System with seismic oceanography, Abstract 1487621 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
- 2012
Invited [127] Carbotte, S. M., Canales, J. P., Carton, H. D., Nedimović, M. R., Han, S., Marjanović, M., Gibson, J. C., Janiszewski, H. A., Horning, G., Delescluse, M., Watremez, L., Farkas, A., Biescas-Gorriz, B., Bornstein, G., Childress, L. B. and Parker, B., Evolution and hydration of the Juan de Fuca crust and uppermost mantle: a plate-scale seismic investigation from ridge to trench, Abstract 1476634 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
- 2012* [126] Marjanović, M., Carton, H. D., Carbotte, S. M., Mutter, J. C., Canales, J. P. and Nedimović, M. R., Distribution of melt along the East Pacific Rise at 9°50'N from amplitude variation with angle (AVA) of incidence technique, Abstract 1489059 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
- 2012 [125] Shillington, D. J., Bécel, A., Nedimović, M. R., Kuehn, H. and Webb, S. C., Along-strike variations in the structure of the downgoing plate in the subduction zone off the Alaska Peninsula, Abstract 1492543 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
- 2012 [124] Han, S., Carbotte, S. M., Canales, J. P., Carton, H. D. and Nedimović, M. R., Along-trench structural variations of downgoing Juan de Fuca plate in relation to regional scale segmentation of the Cascadia subduction zone: Insights from multichannel seismic imaging, Abstract 1488701 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-8 Dec.
- 2012
Invited [123] Delescluse, M., Nedimović, M. R., Carbotte, S. M., Shillington, D. J., Bécel, A., Canales, J. P., Carton, H. and Webb, S. C., Controlled source seismic imaging of subduction zones; what can we learn from the down-going plate, 16th General Assembly of WEGENER on earth deformation and the study of earthquakes using geodesy and geodynamics, 2012, Strasbourg, France.
- 2012* [122] Watremez, L., Lau, K. W. H., Nedimović, M. R., Loudon, K. E. and Karner, G., Orphan Basin crustal structure from tomographic inversion with dense receivers, III Central and North Atlantic Conjugate Margins Conference, Dublin, Ireland.
- 2012* [121] Lau, K. W. H., Watremez, L., Loudon, K. E., Nedimović, M. R., Karner, G. and Welford, K., New wide-angle seismic constraints across a magma-starved, hyper-extended North Atlantic rift basin, Orphan Basin, III Central and North Atlantic Conjugate Margins Conference, Dublin, Ireland.

- 2011 [120] Nedimović, M. R., Shillington, D. J., Webb, S. C., Bécél, A., Delescluse, M., Li, J., Kuehn, H., Biescas, B., Wessbecher, A., Farkas, A., Eddy, C., Hostetler, K., Perls, H., Zietman, J., Keranen, K. M. and Loudén, K. E., Pacific plate seaward of the western Alaska trench: A view into the structure of a fossil triple junction, Abstract T33A-2388 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 4-9 Dec.
- 2011 [119] Shillington, D. J., Nedimović, M. R., Webb, S. C., Bécél, A., Delescluse, M., Li, J., Kuehn, H., Biescas, B., Wessbecher, A., Farkas, A., Eddy, C., Hostetler, K., Perls, H., Zietman, J., Keranen, K. M. and Loudén, K. E., Constraints on the Aleutian subduction zone from the Shumagin gap to Kodiak asperity from new MCS and OBS data of the ALEUT Project, Abstract T33A-2387 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 4-9 Dec.
- 2011 [118] Carbotte, S. M., Marjanović, M., Carton, H. D., Mutter, J. C., Canales, J. P., Xu, M., Nedimović, M. R. and Aghaei, O., The ups and downs of magma in the crust beneath the East Pacific Rise axis 8^o20'-10^o10'N, Abstract OS22A-01 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 4-9 Dec.
- 2011* [117] Aghaei, O., Nedimović, M. R., Canales, J. P., Carton, H. D., Carbotte, S. M. and Mutter, J. C., Crustal thickness from 3D MCS data collected over the fast-spreading East Pacific Rise at 9^o50'N, Abstract OS11B-1498 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 4-9 Dec.
- 2011 [116] Han, S., Carton, H. D., Carbotte, S. M., Mutter, J. C., Canales, J. P. and Nedimović, M. R., 3D seismic reflection images of an off-axis melt lens and its associated upper crust around 9^o39', East Pacific Rise, Abstract OS22A-02 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 4-9 Dec.
- 2011* [115] Gerlings, J., Loudén, K. E., Minshull, T. A. and Nedimović, M. R., The Flemish Cap - Goban Spur conjugate margins: New evidence of asymmetry, Abstract T21A-2295 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 4-9 Dec.
- 2011* [114] Lau, K. W. H., Loudén, K. E., Nedimović, M. R., Whitehead, M., Farkas, A., Watremez, L. and Dehler, S. A., Transition from magma dominant to magma poor rifting along the Nova Scotia Continental Margin, Abstract T21A-2296 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 4-9 Dec.
- 2011 [113] Nedimović, M. R., Loudén, K. E., Lau, K. W. H., Watremez, L., Shillington, D. S., Gaherty, J. B., Carbotte, S. M., Van Avendonk, H. and Dehler, S. A., Transition from magma dominant to magma poor rifting along the Nova Scotia Continental Margin, ENAM GeoPRISMS, Lehigh University, Bethlehem, Pennsylvania.
- 2011* [112] Lau, K. W. H., Loudén, K. E., Wu, Y. and Nedimović, M. R., Asymmetrical crustal structure across the non-volcanic Nova Scotia-Morocco continental margin conjugates, EGU General Assembly, *Geophysical Research Abstracts*, Vol. 13, EGU2011-3776, Vienna, Austria.

- 2010 [111] Han, S., Carbotte, S. M., Carton, H., Newman, K. R., Canales, J. P. and Nedimović, M. R., Upper crustal structure above off-axis magma lenses at RIDGE-2000 East Pacific Rise Integrated Study Site from 3D multichannel seismic reflection data, Abstract OS21C-1512 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- 2010 [110] Carton, H. D., Carbotte, S. M., Mutter, J. C., Canales, J. P., Nedimović, M. R., Aghaei, O., Marjanović, M. and Newman, K. R., Three-dimensional seismic reflection images of axial melt lens and seismic layer 2A between 9°42' and 9°57'N on the East Pacific Rise, Abstract OS21C-1514 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- 2010 [109] Carbotte, S. M., Marjanović, M., Nedimović, M. R. and Canales, J. P., Melt anomalies and propagating ridge offsets: Insights from the East Pacific Rise and Juan de Fuca Ridge, Abstract OS21C-1515 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- 2010* [108] Aghaei, O., Nedimović, M. R., Canales, J. P., Carton, H. D., Carbotte, S. M. and Mutter, J. C., Relationship between ridge segmentation and Moho transition zone structure from 3D multichannel seismic data collected over the fast-spreading East Pacific Rise at 9°50'N, Abstract S21C-1510 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- 2010 [107] Canales, J. P., Carton, H. D., Hu, M., Nedimović, M. R., Carbotte, S. M. and Mutter, J. C., Evidence from three-dimensional seismic reflection images for crustal magma bodies off the East Pacific Rise, Abstract OS13G-02 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- 2010 [106] Mutter, J. C., Carton, H. D., Marjanović, M., Carbotte, S. M., Canales, J. P. and Nedimović, M. R., Eruption-related changes in magma chamber structure at 9°50'N on the EPR from coincident reflection images, 1985 and 2008, Abstract OS24A-01 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- 2010* [105] Marjanović, M., Carbotte, S. M., Carton, H. D., Mutter, J. C., Nedimović, M. R. and Canales, J. P., Axial magma chamber segmentation along the East Pacific Rise from Clipperton to Siqieros Fracture Zone, Abstract OS21C-1511 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- 2010 [104] Hu, M., Canales, J. P., Carton, H. D., Carbotte, S. M., Nedimović, M. R. and Mutter, J. C., 3D multi-channel seismic imaging of melt-rich lenses beneath and off the East Pacific Rise Integrated Study Site, Abstract OS21C-1513 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- 2010 [103] Steckler, M. S., Baccheschi, P., Cardinali, M., Dewez, T., Faccenna, C., Finkel, R. C., Gervasi, A., Guerra, I., Guzzetti, F., Hout, S., Kim, W., Lamothe, M., Lavier, L. L., Maliverno, A., Margheriti, L., Nedimović, M. R., Agostinetti, N. P., Reitz, M. A., Seeber, L., Stark, C. P., Schaefer, J. M. and Thomson, S. N., Tectonics at the Transition from subduction to collision at the Calabrian Arc, Abstract T13G-07 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.

- 2010 [102] Ildefonse, B., Abe, N., Isozaki, Y., Blackman, D. K., Canales, J. P., Kodaira, S., Myers, G., Nakamura, K., Nedimović, M. R., Seama, N., Teagle, D. A. H., Umino, S., Wilson, D. S. and Yamao, M., The MoHole: A crustal journey and mantle quest, Abstract U43A-0018 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- 2010 [101] Ildefonse, B., Abe, N., Blackman, D. K., Canales, J. P., Isozaki, Y., Kodaira, S., Myers, G., Nakamura, K., Nedimović, M. R., Skinner, A. C., Seama, N., Takazawa, E., Teagle, D. A. H., Tominaga, M., Umino, S., Wilson, D. S. and Yamao, M., The MoHole: A Crustal Journey and Mantle Quest, Workshop in Kanazawa, Japan, 3-5 June 2010, *Scientific Drilling*, No. 10, 56-63.
- 2010* [100] Negulić E., Louden, K. E., Wielens, H., Mukhopadhyay, P. K. and Nedimović, M. R., Thermal modelling of the central Scotian Slope, offshore Eastern Canada: Seafloor heat flow data, hydrocarbon maturation potential and the effects of salt on heat flow, II Central and North Atlantic Conjugate Margins Conference, Lisbon, Portugal.
- 2010* [99] Delescluse, M., Nedimović, M. R. and Louden, K. E., Waveform tomography applied to long streamer MCS data from the Scotian slope, offshore Eastern Canada, II Central and North Atlantic Conjugate Margins Conference, Lisbon, Portugal.
- 2010* [98] Lau, K. W. H., Louden, K. E. and Nedimović, M. R., Variations in crustal structure across the Nova Scotia continental margin and its conjugate, II Central and North Atlantic Conjugate Margins Conference, Lisbon, Portugal.
- 2010 [97] Fulthorpe, C., Austin, J., Mountain, G., Miller, K., Nedimović, M. R. and Monteverde, D., New Jersey shelf-slope 3D survey for sea-level and sedimentary objectives, *R/V Marcus G. Langseth* Workshop, Incline Village, Nevada.
- 2010 [96] Canales, J. P., Nedimović, M. R., Ildefonse, B., Kodaira, S., Abe, N., Larsen, H.-C., Wilson, D., Blackman, D., Isozaki, Y., Myers, G., Teagle, D. and Umino, S., Setting up the stage for project MoHole: seismic studies of fast-spread ocean lithosphere, *R/V Marcus G. Langseth* Workshop, Incline Village, Nevada.
- 2010 [95] Carbotte, S. M., Nedimović, M. R., Canales, J. P., Carton, H., Kelley, D., Gill, J., Wilcock, W., Bohnenstiehl, D., Tivey, M. and Tivey, M., 3D reflection seismic investigation of segmentation of axial melt and hydrothermal venting at the Endeavour segment of the Juan de Fuca Ridge, *R/V Marcus G. Langseth Workshop*, Incline Village, Nevada.
- 2010* [94] Negulić E., Louden, K. E., Wielens, H., Mukhopadhyay, P. K. and Nedimović, M. R., Thermal modelling of the central Scotian slope, offshore Nova Scotia: The effects of salt on heat flow and implications for hydrocarbon maturation, OETR Association Workshop, Halifax. *Awarded Best Student Geophysical Poster.*
- 2010* [93] Delescluse, M., Nedimović, M. R. and Louden, K. E., Waveform tomography applied to long streamer MCS data from the Scotian slope, OETR Association Workshop, Halifax.

- 2010* [92] Negulić E., Louden, K. E., Wielens, H., Mukhopadhyay, P. K. and Nedimović, M. R., Thermal modelling of the central Scotian slope, offshore Nova Scotia: The effects of salt on heat flow and implications for hydrocarbon maturation, GeoCanada Convention, Calgary.
- 2010* [91] Newman, K. R., Nedimović, M. R., Delescluse, M., Menke, W., Canales, J. P., Carbotte, S. M., Carton, H. and Mutter J., East Pacific Rise axial structure from a joint tomographic inversion of traveltimes picked on downward continued and standard shot gathers collected by 3D MCS surveying, *Geophysical Research Abstracts*, Vol. 12, EGU2010-13383, EGU General Assembly.
- 2010* [90] Delescluse, M., Nedimović, M. R. and Louden, K. E., Waveform tomography applied to long streamer MCS data from the Scotian slope, *Geophysical Research Abstracts*, Vol. 12, EGU2010-6100, EGU General Assembly.
- 2010 [89] Adam, J., Cody, M., Campbell, C., Cribb, J., Nedimović, M. R., Kreszek, C. and Grujic, Dj., Basin-scale salt tectonic processes and post-rift basin history of the north-central Scotian slope and deepwater basin, AAPG Annual Meeting.
- 2010* [88] Campbell, C., MacDonald, C., Cribb, J., Juergen, A., Nedimović, M. R., Kressek, S., and Grujic, Dj., The salt tectonic evolution of the North-Central Scotian Margin: Insights from 2D regional seismic data and 4D physical experiments, AAPG Annual Meeting.
- 2010 [87] Adam, J., Cody, M., Campbell, C., Cribb, J., Nedimović, M. R., Kreszek, C. and Grujic, Dj., Basin-scale salt tectonic processes and sediment progradation in the slope and deepwater basin of the north-central Scotian margin, International conference on Salt Tectonics, Sediments and Prospectivity sponsored by the Geological Society, Petroleum Group and SEPM.
- 2009 [86] Louden, K. E., Mukhopadhyay, P. K., Nedimović, M. R. and Negulić E., Heat flow calibration and hydrocarbon prospects as defined by petroleum system modelling within the western Sable Sub-basin, Scotian Basin, Offshore/Onshore Technologies Association of Nova Scotia CORE Conference 2009.
- 2009* [85] Campbell, C., MacDonald, C., Cribb, J., Nedimović, M. R., Juergen, A., Kressek, S., and Grujic, Dj., 4D Modelling the tectono-stratigraphic evolution of the Abenaki and Central Sable Sub-basin, offshore Nova Scotia, Offshore/Onshore Technologies Association of Nova Scotia CORE Conference 2009.
- 2009* [84] Giles, G., Mosher, D., Piper, D. J. W., Nedimović, M. R. and Wach, G. D., Continental slope sedimentation models: Laurentian Channel and Halibut Channel regions, Eastern Canada, Offshore/Onshore Technologies Association of Nova Scotia CORE Conference 2009.
- 2009
Invited [83] Carbotte, S. M., Perfit, M. R., Canales, J. P., Nedimović, M. R., Carton, H., Gill, J. and Kelly, D., Near-axis melt anomalies and segmentation of axial melt: a common framework for the EPR and Endeavour ISS, *EOS Trans. AGU* 90(52), Fall Meet. Suppl., Abstract OS11B-01.

- 2009 [82] Han, S., Carbotte, S. M., Carton, H., Mutter, J. C., Canales, J. P. and Nedimović, M. R., Upper Crustal Structure above the Off-axis Magma Lenses at RIDGE-2000 East Pacific Rise Integrated Study Site from 2008 3D Multi-channel Seismic Reflection Data, *EOS Trans.* AGU 90(52), Fall Meet. Suppl., Abstract OS13A-1163.
- 2009* [81] Carton, H., Carbotte, S. M., Mutter, J. C., Canales, J. P., Nedimović, M. R., Marjanović, M., Aghaei, O., Xu, M., Han, S and Stowe, L., Characteristics of the crustal magma body in the 2005-06 eruption area at 9°50'N on the East Pacific Rise from 3D multi-channel seismic data, *EOS Trans.* AGU 90(52), Fall Meet. Suppl., Abstract OS11B-02.
- 2009 [80] Xu, M., Stephen, R. A., Canales, J. P., Nedimović, M. R., Carbotte, S. M. and Mutter, J. C., Seismic waveform modeling of the reflection response from a mid-ocean ridge axial melt sill: understanding the message behind the polarity of waves reflected off the melt lens, *EOS Trans.* AGU 90(52), Fall Meet. Suppl., Abstract OS13A-1164.
- 2009* [79] Newman, K. R., Nedimović, M. R., Delescluse, M., Canales, J. P., Carbotte, S. M., Carton, H. and Mutter, J. C., Travel time tomography along the EPR axis using arrivals picked from downward continued MCS shot gathers, *EOS Trans.* AGU 90(52), Fall Meet. Suppl., Abstract OS21B-06.
- 2009 [78] Ghosh, S., Canales, J. P., Carbotte, S. M. and Nedimović, M. R., Upper Crustal Structure of the Cleft Segment of the Juan de Fuca Ridge using 2D Streamer Travel time tomography, *EOS Trans.* AGU 90(52), Fall Meet. Suppl., Abstract S52A-06.
- 2009 [77] D'Agostino, N., Gervasi, A., Guerra, I., Nedimović, M. R., Seeber, N. and Steckler, M., Crustal motion of the Calabrian Arc from the CALABARCO GPS deployment, *EOS Trans.* AGU 90(52), Fall Meet. Suppl., Abstract G22A-05.
- 2009* [76] Giles, M. K., Mosher, D., Nedimović, M. R. and Piper, D., Mass transport processes on the SW Newfoundland slope, eastern Canada: Model for deep water sediment transport, AAPG Annual Meeting.
- 2009 [75] Nedimović, M. R. and Loudon, K. E, Changes in the ocean-continent transition along the Nova Scotia margin, RCL 2009 Workshop, Charleston SC, 70.
- 2009* [74] Delescluse, M., Loudon, K. E and Nedimović, M. R., Waveform tomography applied to long-streamer MCS data from the Nova Scotia slope: Challenges and applications, *EOS Trans.* AGU 90(22), Spring Meet. Suppl., Abstract S31A-22.
- 2009* CSPG/CSEG/
CWLS award [73] Negulić E., Loudon, K. E, Nedimović, M. R. and Mukhopadhyay, P. K., Thermal models across the central Nova Scotia slope basin constrained by new marine heat flow measurements, CSPG - CSEG - CWLS Convention, 136-139. *Awarded Best Student Geophysical Poster at the 2009 CSPG CSEG CWLS Annual Convention.*
- 2009 [72] Greenan, B. J. W., Mirshak, R., Nedimović, M. R. and Ruddick, B. R., Results from the ROSE Seismic Oceanography Experiment, 2009 Can. Met. & Ocean. Soc. Congress Abstract 2C-203.1, ID:2795.

- 2008 [71] Nedimović, M. R., Carbotte, S. M., Mutter, J. C., Canales, J. P., Carton, H., Aghaei, O., Newman, K. R., Marjanovic, M., Xu, M. and Stowe, L., Deep reflection structure imaged by the 2008 3D seismic reflection survey at the RIDGE-2000 East Pacific Rise Integrated Studies Site, *EOS Trans.* AGU 89(53), Fall Meet. Suppl., Abstract B21A-0323.
- 2008 Invited [70] Canales, J. P., Perfit, M. R., Stakes, D. S., Carbotte, S. M., and Nedimović, M. R., Near-axis magmatism and hydrothermalism off the southern Juan de Fuca ridge: Constraints from seismic reflection, petrology, and seafloor observations, *EOS Trans.* AGU 89(53), Fall Meet. Suppl., Abstract V54B-01.
- 2008* [69] Marjanović, M., Carbotte, S. M., Nedimović, M. R. and Canales, J. P., Variations of the crustal structure along the Juan de Fuca ridge from analysis of gravity and seismic data, *EOS Trans.* AGU 89(53), Fall Meet. Suppl., Abstract V41B-2087.
- 2008 [68] Purdy, G. M., Mutter, J. C., Carbotte, S. M., Canales, J. P., Nedimović, M. R., Carton, H., Newman, K. R., Marjanovic, M., Xu, M., Aghaei, O. and Stowe, L., 3D seismic reflection imaging of crustal formation processes on the East Pacific Rise, 9°57-42'N, *EOS Trans.* AGU 89(53), Fall Meet. Suppl., Abstract B21A-0322.
- 2008 [67] Mutter, J. C., Carton, H., Carbotte, S. M., Canales, J. P., Nedimović, M. R., Newman, K. R., Marjanovic, M., Xu, M., Aghaei, O. and Stowe, L., Searching for changes in AMC characteristics on the EPR using comparisons of reflection images obtained in 1985 and 2008, *EOS Trans.* AGU 89(53), Fall Meet. Suppl., Abstract B21A-0323.
- 2008* [66] Carton, H., Carbotte, S. M., Mutter, J. C., Canales, J. P., Nedimović, M. R., Newman, K. R., Marjanovic, M., Xu, M., Aghaei, O. and Stowe, L., Characteristics of the crustal magma body in the 2005-06 eruption area at 9°50'N on the East Pacific Rise from a 3D multi-channel seismic investigation, *EOS Trans.* AGU 89(53), Fall Meet. Suppl., Abstract B23F-03.
- 2008 [65] Carbotte, S. M., Mutter, J. C., Canales, J. P., Nedimović, M. R., Carton, H., Xu, M., Newman, K. R., Marjanović, M., Aghaei, O. and Stowe, L., New observations of the magmatic segmentation of the East Pacific Rise from Siquieros to Clipperton from a multi-streamer seismic reflection imaging study, *EOS Trans.* AGU 89(53), Fall Meet. Suppl., Abstract B21A-0320.
- 2008 [64] Canales, J. P., Carbotte, S. M., Mutter, J. C., Nedimović, M. R., Carton, H., Xu, M., Newman, K. R., Aghaei, O., Marjanovic, M. and Stowe, L., Discovery of off-axis melt lenses at the RIDGE-2000 East Pacific Rise Integrated Studies Site, *EOS Trans.* AGU 89(53), Fall Meet. Suppl., Abstract B21A-0319.
- 2008 [63] Nedimović, M. R., Newman, K. R., Carbotte, S. M. and Canales, J. P., Upper crustal evolution across the Juan de Fuca ridge flanks. Endeavour ISS Integration and Synthesis Workshop, Washington University, 28-29.

- 2008 [62] Carbotte, S. M., Nedimović, M. R. and Canales, J. P., The evolution and structure of endeavour segment and influence of the Heckle Seamounts melt anomaly. Endeavour ISS Integration and Synthesis Workshop, Washington University, 8-9.
- 2008* [61] Giles, M. K., Mosher, D. C., Piper, D. J. W., Nedimović, M. R. and Wach, G. D., Continental slope sedimentation models: Laurentian channel and halibut channel regions, eastern Canada, Central Atlantic Conjugate Margin Conference, Halifax, Canada.
- 2008* [60] MacDonald, C., Campbell, C., Cribb, J., Adam, J., Nedimović, M. R., Louden, K. E., and Kreszek, C., 4D physical modelling of salt tectonics in Sable sub-basin, Scotia margin, Central Atlantic Conjugate Margin Conference, Halifax, Canada.
- 2008* [59] Cribb, J., Campbell, C., MacDonald, C., Adam, J., Nedimović, M. R., Louden, K. E., and Kreszek, C., Analogue modelling of salt tectonic processes and depocenter migration on the shelf and deepwater slope, western Laurentian Sub-basin, Central Atlantic Conjugate Margin Conference, Halifax, Canada.
- 2008* [58] Campbell, C., MacDonald, C., Cribb, J., Adam, J., Nedimović, M. R., Louden, K. E., and Kreszek, C., Tectono-stratigraphic evolution of salt structures and depo-center migration in the Abenaki sub-basin and its deepwater extension, offshore Nova Scotia, Central Atlantic Conjugate Margin Conference, Halifax, Canada.
- 2008 [57] Louden, K. E., Mukhopadhyay, P. K, Wu, Y. and Nedimović, M. R., Seismic stratigraphy, salt structures and thermal and petroleum systems models across the central Nova Scotia slope basin, Central Atlantic Conjugate Margin Conference, Halifax, Canada.
- 2008 [56] Adam, J., Kreszek, C., MacDonald, C., Campbell, C., Cribb, J., Nedimović, M. R., Louden, K. E., and Grujic, Dj., Basin-scale salt tectonic processes and sediment progradation in the slope and deepwater basin of the north-central Scotian margin, Central Atlantic Conjugate Margin Conference, Halifax, Canada.
- 2008* [55] MacDonald, C., Campbell, C., Cribb, J., Adam, J., Nedimović, M. R., Louden, K. E., and Kreszek, C., Salt tectonics 4D analogue modelling of the north-central Scotia margin, Nova Scotia Energy Forum.
- 2008* [54] Eric Negulić, Hans Wielens, Nedimović, M. R. and Louden, K. E., Thermal modelling of the central Scotian slope: The effects of salt diapirs on heat-flow, Nova Scotia Energy Forum.
- 2008* [53] Omid Aghaei, Louden, K. E. and Nedimović, M. R., AVO attribute calculation and comparison with real seismic data in the Scotian margin, Nova Scotia Energy Forum.
- 2008 [52] Greenan, B. J. W., Mirshak, R., Nedimović, M. R. and Ruddick, B. R., ROSE - Reflection Ocean Seismic Experiment, 2008 Can. Met. & Ocean. Soc. Congress Abstract.

- 2008*
Invited [51] Mirshak, R., Nedimović, M. R., Greenan, B. J. W., Louden, K. E., Ruddick, B. R. and Shimeld, J. W., ROSE: Coincident seismic and hydrographic survey of the Gulf Stream and slope waters southeast of Nova Scotia, *Geophysical Research Abstracts*, Vol. 10, EGU2008-A-04742, EGU General Assembly.
- 2008* [50] Mirshak, R., Nedimović, M. R., Greenan, B. J. W., Louden, K. E., Ruddick, B. R. and Shimeld, J. W., Comparison of field and synthetic seismic reflection images of Gulf Stream and Slope waters southeast of Nova Scotia, *Geophysical Research Abstracts*, Vol. 10, EGU2008-A-04739, EGU General Assembly.
- 2008
Featured:
Front page [49] Greenan, B. J. W., Nedimović, M. R., Louden, K. E., Mirshak, R., Ruddick, B. R. and Shimeld, J. W., ROSE - Reflection Ocean Seismic Experiment, *CMOS Bulletin*, Vol. 36, No. 2, 43-50.
- 2008 [48] Nedimović, M. R., Greenan, B. J. W., Louden, K. E., Ruddick, B. R., Mirshak, R., Aghaei, O., Enachescu, M. and Shimeld, J. W., ROSE: Coincident seismic and hydrographic survey of the Gulf Stream and slope waters southeast of Nova Scotia, AGU Ocean Sciences Meeting, Abstract 2960.
- 2008 [47] Adam, J., Kreszek, C., MacDonald, C., Campbell, C., Cribb, J., Nedimović, M. R. and Grujic, Dj., Basin-scale salt tectonic processes at the north-central Scotian margin: Insights from integrated regional 2D seismic interpretation and 4D physical experiments, AAPG Annual Meeting.
- 2007* [46] Newman, K. R., Nedimović, M. R., Carbotte, S. M. and Canales, J. P., Upper crustal evolution along the Juan de Fuca ridge flanks from travel time tomography of seismic layer 2, *EOS Trans.* AGU 88(52), Fall Meet. Suppl., Abstract S12A-07.
- 2007 [45] Carbotte, S. M., Nedimović, M. R. and Canales, J. P., Variable crustal structure along the Juan de Fuca Ridge; influence of on-axis hotspots and absolute plate motions, *EOS Trans.* AGU 88(52), Fall Meet. Suppl., Abstract V21B-0601.
- 2007* [44] Negulic, E., Kliffer, M., MacDonald, C., Campbell, C., Adam, J., Louden, K. E. and Nedimović, M. R., Comparative analysis of analogue modelling results and seismic profile data from the Shelburne to Sable Sub-basins on the continental slope of the Scotian margin, Nova Scotia Offshore Basin Forum 2007.
- 2007* [43] MacDonald, C., Campbell, C., Cribb, J., Adam, J. and Nedimović, M. R., Physical modelling of the Jurassic to Cretaceous evolution of the Scotia margin salt tectonics system, Nova Scotia Offshore Basin Forum 2007.
- 2007 [42] Louden, K. E., Nedimović, M. R. and Mukhopadhyay, P., Analysis of petroleum systems on the Scotian slope using thermal and seismic techniques, Nova Scotia Offshore Basin Forum 2007.
- 2006* [41] Newman, K. R., Nedimović, M. R., Carbotte, S. M., Diebold, J. B., Seismic imaging of water column structure across the Juan de Fuca ridge system, *EOS Trans.* AGU 86(52), Fall Meet. Suppl., Abstract OS31D-1667.

- 2006 [40] Carbotte, S. M., Detrick, R. S., Harding, A. J., Canales, J. P., Babcock, J. M., Kent, G. M., van Ark, E., Diebold, J. B., and Nedimović, M. R., Rift topography linked to magmatic processes at the intermediate spreading Juan de Fuca Ridge, *EOS Trans. AGU* 86(52), Fall Meet. Suppl., Abstract B33D-06.
- 2006* [39] Newman, K. R., Nedimović, M. R., Carbotte, S. M., Diebold, J. B., Babcock, J. M., Harding, A. J., Kent, G. M., Canales, J. P. and Detrick, R. S., Layer 2A structure and evolution along the Juan de Fuca ridge flanks, Ridge 2000 Theoretical Institute 2006, Modeling Oceanic Spreading Center Hydrothermal Processes: Magma to Microbe, Abstract Volume.
- 2006 [38] Nedimović, M. R., Bohnenstiehl, D. R. and Carbotte, S. M., Fault-controlled hydration of the oceanic plate: Implications for intraslab seismicity and the origin of double seismic zones, MARGINS Workshop on Interpreting Upper Mantle Images, Abstract volume.
- 2006 [37] Nedimović, M. R., Megathrust seismic hazards by reflection mapping, Chapman Conference on Active Tectonics and Seismic Potential of Alaska, Abstract Volume, 18-19.
- 2005 [36] Nedimović, M. R., Carbotte, S. M., Newman, K., Diebold, J. B., Babcock, J. M., Harding, A. J., Kent, G. M., Canales, J. P. and Detrick, R. S., Upper crustal evolution along the Juan de Fuca ridge flanks and its relation to sedimentation and tectonic history, *EOS Trans. AGU* 86(52), Fall Meet. Suppl., Abstract T33A-0512.
- 2005 [35] Bohnenstiehl, D. R., Waldhauser, F., Nedimović, M. R. and Rietbrock A., Outer-rise faulting, abyssal fabric and the structure of double seismic zones, *EOS Trans. AGU* 86(52), Fall Meet. Suppl., Abstract T13B-0476.
- 2005 [34] Baran, J. M., Carbotte, S. M., Cochran, J. M. and Nedimović, M. R., Variations in shallow off-axis crustal structure and ridge segment morphology along the Southeast Indian ridge, *EOS Trans. AGU* 86(52), Fall Meet. Suppl., Abstract T33A-0514.
- 2004 [33] Nedimović, M. R., Carbotte, S. M., Bohnenstiehl, D. R., Diebold, J. B., Detrick, R. S., Canales, J. P., Van Ark, E., Harding, A. J. and Kent, G. M., Lithospheric accretion and the nature of anomalously thick oceanic Moho transition zone, *EOS Trans. AGU* 85(47), Fall Meet. Suppl., Abstract B13A-0205.
- 2004 [32] Diebold, J. B., Nedimović, M. R., Bohnenstiehl, D. R., Carbotte, S. M., Detrick, R. S., Canales, J. P., Harding, A. J. and Kent, G. M., Limited hydration of the Juan de Fuca, Gorda and Explorer plates and its effect on the intraslab seismicity, *EOS Trans. AGU* 85(47), Fall Meet. Suppl., Abstract T41B-1202.
- 2004 [31] Canales, J. P., Singh, S. C., Detrick, R. S., Carbotte, S. M., Kent, G. M., Diebold, J. B., Harding, A. J. and Nedimović, M. R., Seismic structure of the axial magma chamber along the southern Juan de Fuca ridge from full-waveform inversion and partial S-wave stacking, *EOS Trans. AGU* 85(47), Fall Meet. Suppl., Abstract B13A-0182.

- 2004 [30] Fisher, A. T., Wheat, C. G., Becker, K., Davis, E. E., Jannasch, H., Schroeder, D., Dixon, R., Pettigrew, T. L., Macdonald, R., Nielson, M., Fisk, M., Cowen, J., Bach, W. and the IODP Expedition 301 scientific party, A three-dimensional subseafloor observatory network for cross-hole, hydrogeologic experiments established in the northeast Pacific ocean, *EOS Trans. AGU* 84(46), Fall Meet. Suppl., Abstract OS43B-0547.
- 2004 [29] Hayward, N., Nedimović, M. R., Cleary, M. and Calvert, A. J., Identifying faults and their recent motion in eastern strait of Juan de Fuca, *U. S. Geol. Sur. Report*, Library, Reston, VA, United States, 35 p.
- 2003 [28] Nedimović, M. R., Hyndman, R. D., Ramachandran, K., Spence G. D. and Invited Brocher, T. M., Mapping great earthquake rupture area, *EOS Trans. AGU* 84(46), Fall Meet. Suppl., Abstract S42I-02.
- 2003 [27] Nedimović, M. R., Carbotte, S. M., Diebold, J. B., Detrick, R. S., Canales, J. P., Van Ark, E., Harding, A. J. and Kent, G. M., Crustal structure and evolution along the Juan de Fuca ridge flanks, *EOS Trans. AGU* 84(46), Fall Meet. Suppl., Abstract B12A-0753.
- 2003 [26] Baran, J., Cochran, J. R., Carbotte, S. M. and Nedimović, M. R., Upper crustal variations due to mantle temperature variations along the Southeast Indian ridge, *EOS Trans. AGU* 84(46), Fall Meet. Suppl., Abstract T12D-0502.
- 2003 [25] Canales, J. P., Detrick, R. S., Carbotte, S. M., Diebold, J. B., Nedimović, M. R., Harding, A. J. and Kent, G. M., Crustal structure of the Cleft segment (southern Juan de Fuca ridge) from multichannel seismic profiling, *EOS Trans. AGU* 84(46), Fall Meet. Suppl., Abstract B12A-0754.
- 2003 [24] Van Ark, E., Detrick, R. S., Canales, J. P., Carbotte, S. M., Diebold, J. B., Harding, A. J., Kent, G. M., Nedimović, M. R. and Wilcock, W., Seismic structure of the Endeavour segment, Juan de Fuca ridge: Correlations of crustal magma chamber properties with seismicity, faulting, and hydrothermal activity, *EOS Trans. AGU* 84(46), Fall Meet. Suppl., Abstract B12A-0752.
- 2003 [23] Kent, G. M., Harding, A. J., Babcock, J., Orcutt, J., Detrick, R. S., Canales, J. P., Van Ark, E., Carbotte, S. M., Diebold, J. B. and Nedimović, M. R., A new view of 3-D magma chamber structure beneath Axial seamount and Coaxial segment: Preliminary results from the 2002 multichannel seismic survey of the Juan de Fuca ridge, *EOS Trans. AGU* 84(46), Fall Meet. Suppl., Abstract B12A-0755.
- 2003 [22] Nedimović, M. R., Hyndman, R. D., Ramachandran, K., Spence G. D. and Invited Brocher, T. M., Reflection signature of seismic and aseismic slip, Geological Society of America Annual Meeting, Abstract Volume, 127-6.
- 2003 [21] Hayward, N., Nedimović, M. R., Cleary, M., Mosher, D. C. and Calvert, A., Composite tomographic and reflection images of potentially active faults in the eastern Strait of Juan de Fuca, NW Washington, Geological Society of America Annual Meeting, Abstract Volume, 263-1.

- 2003 [20] Nedimović, M. R., Hyndman, R. D., Ramachandran, K., Spence G. D. and Brocher, T. M., Mapping great earthquake rupture area, *Plates & Plumes: A Celebration of the Contributions of W. Jason Morgan to the Ongoing Revolution in Earth Dynamics*, Princeton University.
- 2003 [19] Baran, J., Cochran, J. R., Carbotte, S. M. and Nedimović, M. R., Upper crustal variations due to mantle temperature variations along the Southeast Indian ridge, *Plates & Plumes: A Celebration of the Contributions of W. Jason Morgan to the Ongoing Revolution in Earth Dynamics*, Princeton University.
- 2003 [18] Baran, J., Cochran, J. R., Carbotte, S. M. and Nedimović, M. R., Relationship between axial morphology and axial magma chamber distribution along the Southeast Indian ridge, Summer school on Tectonic-Magmatic Interaction, Nordic Volcanological Institute report 0303, 5-6.
- 2003 [17] Nedimović, M. R., Bohnenstiehl, D. R., and Carbotte, S. M., Monitoring microseismicity, Workshop on Linkages Between the Ocean Observatories Initiative and Integrated Ocean Drilling Program report, 41-43, Washington University.
- 2003 [16] Mosher, D. C., Johnson, S. Y. and Nedimović, M. R. and Hayward, N., Fault recognition and active tectonics in the eastern Juan de Fuca Strait, Cascadia forearc region, Geological Association of Canada Annual Meeting, Abstract Volume, SS3-2.
- 2003 [15] Hayward, N., Nedimović, M. R., Cleary, M., Mosher, D. C. and Calvert, A. J., Composite tomographic and reflection images of potentially active faults in the eastern Strait of Juan de Fuca, western Canada, Geological Association of Canada Annual Meeting, Abstract Volume, SS3-13.
- 2003 [14] Nedimović, M. R., Hyndman, R. D. and Ramachandran, K., The reflection character of the Cascadia subduction thrust: The seismogenic zone and the downdip zone of slow slip events, 10th International Symposium on Deep Seismic Profiling of Continents and their Margins, Abstract Volume, 44.
- 2002 [13] Nedimović, M. R., Ramachandran, K., Hyndman, R. D., Deep structure of the northern Cascadia subduction zone from reflection, tomography and seismicity studies, *EOS Trans. AGU* 83(47), Fall Meet. Suppl., 1252.
- 2002 [12] Carbotte, S. M., Detrick, R. S., Kent, G. M., Canales, J. P., Diebold, J. B., Harding, A. J., Nedimović, M. R., Epstein, D., Cochran, I., Van Arken, E., Dinger, J. and Jacobs, A., A multi-channel seismic investigation of ridge crest and ridge flank structure along the Juan de Fuca ridge, *EOS Trans. AGU* 83(47), Fall Meet. Suppl., 1327.
- 2002 [11] Detrick, R. S., Carbotte, S. M., Van Ark, E., Canales, J. P., Kent, G. M., Harding, A. J., Diebold, J. B. and Nedimović, M. R., New multichannel seismic constraints on the crustal structure of the Endeavour segment, Juan de Fuca ridge: Evidence for a crustal magma chamber, *EOS Trans. AGU* 83(47), Fall Meet. Suppl., 1353.

- 2002 [10] Canales, J. P., Detrick, R. S., Carbotte, S. M., Kent, G. M., Harding, A. J., Diebold, J. B. and Nedimović, M. R., Multichannel seismic imaging along the Vance and Cleft segments of the southern Juan de Fuca ridge, *EOS Trans. AGU* 83(47), Fall Meet. Suppl., 1353.
- 2002 [9] Nedimović, M. R., Ramachandran, K., Hyndman, R. D., Northern Cascadia subduction zone from the propagating deformation front to the forearc Moho, 28th Annual Meeting of the Canadian Geophysical Union, Abstract Volume.
- 2002 [8] Nedimović, M. R. and Mazzotti, S., Crossdip moveout in feathered 2D marine studies, 28th Annual Meeting of the Canadian Geophysical Union, Abstract Volume.
- 2001 [7] Nedimović, M. R., Mazzotti, S. and Hyndman, R. D., Extracting 3D structure from 2D marine multichannel seismic reflection data collected over the Eastern Nankai Trough, *EOS Trans. AGU* 82(47), Fall Meet. Suppl., p. 1220.
- 2000 [6] Nedimović, M. R. and West, G. F., Migrating 2D crooked line seismic reflection data from crystalline geological terrain, 70th Annual International Meeting of the Society of Exploration Geophysicists, Expanded Abstracts, 894-897.
- 1999 [5] Nedimović, M. R. and West, G. F., Processing seismic reflection data from high fold, crooked line surveys in crystalline geological terrain, 69th Annual International Meeting of the Society of Exploration Geophysicists, Expanded Abstracts, 1437-1440.
- 1998 [4] Nedimović, M. R., Wang, W. and West, G. F., Focusing problems in reflection imaging of the crust, 8th International Symposium on Deep Seismic Profiling of Continents and their Margins, Abstract Volume, 42.
- 1998 [3] White, D., Forsyth, M., Nedimović, M. R., Perron, G., Carroll, P., van der Valden, A., Hall, K. and Harrap, R., 1997 seismic reflection data acquisition in the Western Superior transect, Western Superior Lithoprobe Transect Fourth Annual Workshop, Lithoprobe Report #65, Lithoprobe Secretariat, University of British Columbia.
- 1997 [2] Nedimović, M. R. and West, G. F., Losing signal by doing and undoing NMO?, *LSPF Newsletter*, **10**, 21-23.
- 1997 [1] Nedimović, M. R. and West, G. F., Elevation correction module, *LSPF Newsletter*, **10**, 20.
- Note:**
- **Electronic versions of all abstracts are available upon request. Star (*) indicates work by a graduate student or a postdoc supervised by Nedimović.**

Funding

Summary: ~\$50M since 2004; >\$25M from Canadian sources since 2006, with ~\$20M or 80% as PI; >\$22M from international sources, mostly as co-PI after moving to Canada in 2006. Includes ship time, which is estimated for US and French research cruises. Award values for individual projects are in some cases in Canadian and in other cases in US dollars.

- 2019-2020 [42] Nedimović, M. R. (PI); Awarded by Texas A&M University; Total amount: \$80,000; Title: “Halbouty Visiting Chair”.
- 2018-2023 [41] Nedimović, M. R. (PI) and 9 Canadian co-PIs; Awarded by the Canadian Foundation for Innovation and six provincial matching-funds institutions; Total amount (includes CFI component, provincial matching funds, in-kind and IOF Operating and Maintenance Funds: \$16,788,874; Title: “National Facility for Seismic Imaging”.
- 2018-2021 [40] Nedimović, M. R. (PI) and John C. Gosse (co-PI); Awarded by the MEOPAR (Marine Environmental Observation Prediction and Response) Network; Total amount: \$399,000; Title: “ARCTIC Ulliniq (Underwater Listening Network for Novel Investigations of Quakes)”.
- 2018-2020 [39] Nedimović, M. R. (PI) and Canales, J. P. (co-PI); 2-year Dal-WHOI PDF for Dr. Hanchao Jian awarded by the Ocean Frontiers Institute; Amount \$150,000 (Lamont part); Title: “Origin of the major margin-parallel change in seafloor morphology offshore central Nova Scotia and its implications on marine safety and shifting ecosystems”.
- 2018-2019 [38] Nedimović, M. R. (PI); Awarded by the Offshore Energy Research Association of Nova Scotia; Amount \$120,000; Title: “Advanced analyses of MIRROR-1 OBS profile from offshore Morocco”.
- 2017-2018 [37] Nedimović, M. R. (PI); Awarded by the Offshore Energy Research Association of Nova Scotia; Amount \$80,000; Title: “Integrated analyses of the OETR - MIRROR pair of Nova Scotia - Morocco conjugate margins dense OBS data sets supported by coincident reflection profiles”.
- 2017-2018 [36] Nedimović, M. R. (PI); Awarded by the Institute for Geophysics and Planetary Physics, La Jolla, USA; Amount \$20,000; Title: “Integrated analyses of the OETR - MIRROR pair of Nova Scotia - Morocco conjugate margins dense OBS data sets supported by coincident reflection profiles”.
- 2017 [35] Nedimović, M. R. (PI); Awarded by Shell Experimental Learning Fund (SELF); Amount \$2,244; Title: “Predicting sedimentary properties by integration of rock physics modeling and quantitative seismic interpretation to study global sea-level changes offshore New Jersey”; Funding for a field trip for one graduate student, Masoud Aali.
- 2017-2020 [34] Carbotte, S. M. (PI), Nedimović, M. R. and Carton, H. (co-PIs); Awarded by the United States National Science Foundation; Award Number OCE-16-57737; Amount \$155,245 (Lamont part); Title: “Collaborative Research: Inferences on Cascadia Deformation Front and Plate Interface Properties from Advanced Studies of Active Source Seismic Data”.
- 2016-2018 [33] Perosi F. (PI) and Nedimović, M. R. (co-PI); Awarded by the CNPq -Conselho Nacional de Desenvolvimento Científico e Tecnológico, Ministry of Science, Technology and Innovation of Brazil; Amount \$80,000 (40,000 per year); Title: “Analysis, processing and interpretation of high-resolution seismic data (OBS and MCS) for an improved understanding of passive continental margins”.

- 2015-2017 [32] Nedimović, M. R. (PI); Awarded by the Offshore Energy Research Association of Nova Scotia; Amount \$200,000 (100,000 per year); Title: “Extensional tectonics across the northern Nova Scotia margin from ocean bottom seismic data”.
- 2014-2020 [31] Nedimović, M. R. (PI); Awarded by the Natural Sciences and Engineering Research Council of Canada Discovery Program; Amount \$312,000 (52,000 per year); Title: “Seismic study of subduction zones, rifted margins and mid-ocean ridges”.
- 2014-2016 [30] Shillington, D. J. (PI), Nedimović, M. R. and Bécel, A. (co-PIs); Awarded by the United States National Science Foundation; Award Number EAR-1347312; Amount \$268,709 (Lamont part); Title: ‘Collaborative Research: The Aleutian megathrust from trench to base of the seismogenic zone; integration and synthesis of laboratory, geophysical and geological data’”.
- 2014-2016 [29] Fulthorpe, C. (PI), Nedimović, M. R. and Austin, J. (co-PIs); Awarded by the United States National Science Foundation; Award Number OCE-12-59487; Amount \$226,155 (Lamont part); Title: “Collaborative research: Community-based 3D imaging that ties clinoform geometry to facies successions and Neogene sea-level change”. Estimated cost of data acquisition is ~\$2,000,000.
- 2014-17 [28] Cannat, M., Singh, S., Escartin, J., Crawford, W., Leroy, S., d’Ácremont, E., Sauter, D., Manatschal, G., Autin, J., Nedimović, M. R., Watremez, L. and Loudon, K. E. (PIs); Awarded by Flotte Oceanographique Francaise; Amount 36 days of ship time on *R/V Marion Dufresne*; Title: “SEISMO-SMOOTH: 2D and 3D MCS and OBS characterization of exhumed ultramafic seafloor across the SW Indian Ridge ”. Estimated cost of data acquisition is ~2,000,000 euros.
- 2013-2019 [27] Wallace, D. (PI) and many co-PIs including Nedimović, M. R. (co-PI from 2015); Awarded by the NSERC CREATE program; Amount \$1,650,000; Title: “Transatlantic Ocean System Science and Technology (TOSST)”.
- 2013 [26] Loudon, K. E. and Nedimović, M. R. (PIs); NSERC Discovery - Ship Time Grant; Amount \$137,380; Title: “Seismic characterization of exhumed ultramafic seafloor on the SW Indian Ridge”; Partial support for ship time on *R/V Marion Dufresne*, the French ship that will be used for data acquisition in winter 2014 (see funding 26).
- 2012-2015 [25] Carbotte, S. M. (PI), Nedimović, M. R. and Carton, H. (co-PIs); Awarded by the United States National Science Foundation; Award Number OCE-10-29411; Amount \$599,376 (Lamont part); Title: “Collaborative research: Evolution and hydration of the Juan de Fuca crust and uppermost mantle: a plate-scale seismic investigation from ridge to trench”. Estimated cost of data acquisition is ~\$2,000,000.
- 2011-2016 [24] Nedimović, M. R. (PI); Awarded by the Canada Research Chair Program; Amount \$500,000 (100,000 per year); Chair Title: “Canada Research Chair in Geophysics”; Research Title: ”Investigations of mid-ocean ridges, subduction zones and passive margins”.

- 2011 [23] Nedimović, M. R. and Louden, K. E. (PIs); Awarded by Shell Experimental Learning Fund (SELF); Amount \$9,600; Title: “Analysis of ALEUT long-streamer MCS data for determining Alaska megathrust earthquake hazards”; Funding for a part of the academic year for one graduate student, Harold Kuehn.
- 2011 [22] Nedimović, M. R. and Louden, K. E. (PIs); Awarded by Shell Experimental Learning Fund (SELF); Amount \$9,600; Title: “Structure of the continent-ocean transition in deep water region offshore Nova Scotia ”; Funding for one undergraduate summer student, Aaron Farkas.
- 2010-2013 [21] Louden, K. E. and Nedimović, M. R. (PIs); Awarded by ExxonMobil; Amount \$3,260,000; Title: “Orphan Basin wide angle ocean bottom seismic acquisition and data analysis”.
- 2010 [20] Gibling, M. R. and Nedimović, M. R. (PIs); Awarded by Shell Experimental Learning Fund (SELF); Amount \$14,000; Title: “History of coastal dunes in Nova Scotia and Prince Edward Island”; Funding for two undergraduate summer students, Darragh O’Connor and Peter Regan.
- 2010 [19] Louden, K. E. (PI), Nedimović, M. R. (co-PI); Awarded by the Offshore Energy Technical Research (OETR) Association; Amount \$91,000; Title: “Refraction crustal models and plate reconstruction”.
- 2010 [18] Louden, K. E. (PI) and Nedimović, M. R. (co-PI); Awarded by NSERC Discovery - Ship Time Grant; Amount \$212,475; Title: “Seismic and thermal measurements on the Nova Scotia slope”; Ten days of data acquisition summer 2010 using *CCGS Hudson*.
- 2010-2013 [17] Shillington, D. J. (PI), Nedimović, M. R., Webb, S. C. and Diebold, J. B. (co-PIs); Awarded by the United States National Science Foundation; Award Number OCE-09-26614; Amount \$681,153; Title: “Megathrust seismic hazards by reflection mapping”. Estimated cost of data acquisition is ~\$2,500,000.
- 2009-2014 [16] Nedimović, M. R. (PI); Awarded by the Natural Sciences and Engineering Research Council of Canada Discovery Program; Amount \$200,000 (40,000 per year); Title: “Seismic imaging of mid-ocean ridges and passive margins”.
- 2009-2012 [15] Nedimović, M. R. (PI), Webb, S. C. and Diebold, J. B. (co-PIs); Awarded by the United States National Science Foundation; Award Number OCE-06-23023; Amount \$636,499; Title: “Megathrust seismic hazards by reflection mapping”. Estimated cost of data acquisition for is ~\$2,500,000. NOTE: Due to ship unavailability NSF has “defunded” this project 25 months after we were informed that they plan to fund it.
- 2008 [14] Louden, K. E. (PI) and Nedimović, M. R. (co-PI); Awarded by NSERC Discovery - Ship Time Grant; Amount \$252,408; Title: “Seismic and thermal measurements on the Nova Scotia slope”; Eight days of data acquisition in July 2008 using *CCGS Hudson*.

- 2007 [13] Nedimović, M. R. and Adam, J. (PIs); Awarded by Shell Experimental Learning Fund (SELF); Amount \$16,000; Title: “Interaction of sedimentation and allochthonous salt canopy systems at the deepwater slopes of passive margins”; Funding for two undergraduate summer students, Eric Negulić and Matthew Kliffer.
- 2007-2010 [12] Louden, K. E. (PI), Nedimović, M. R. and Mukhopadhyay, P. K. (co-PIs); Awarded by the Offshore Energy Technical Research (OETR) Association; Amount \$300,000; Title: “Analysis of petroleum systems on the Scotian slope using thermal and seismic techniques”.
- 2007-2010 [11] Nedimović, M. R. (PI), Louden, K. E., Ruddick, B. R. and Enachescu, M. (co-PIs); Awarded by the Natural Sciences and Engineering Research Council of Canada; Award Number 342308/06; Amount \$489,465; Title: “Seismic imaging of the ocean and crust off eastern Canada”.
- 2007-2010 [10] Carbotte, S. M. (PI) and Nedimović, M. R. (co-PI); Awarded by the United States National Science Foundation; Award Number OCE-06-48303; Amount \$173,519 (Lamont part); Title: “Collaborative research: Seismic structure and evolution of oceanic crust along the Juan de Fuca ridge and its flanks”.
- 2006-2011 [9] Nedimović, M. R. (PI); Awarded by the Canada Research Chair Program; Amount \$500,000 (100,000 per year); Chair Title: “Canada Research Chair in Geophysics-Petroleum Exploration”; Research Title: ”Seismic hazards, paleoclimate reconstruction, and petroleum exploration”.
- 2006 [8] Nedimović, M. R. (PI); Awarded by the Canadian Foundation for Innovation and Nova Scotia Research and Innovation Trust; Amount \$312,500; Title: “Imaging, visualization and interpretation lab for seismic hazards, climate change, and petroleum exploration studies”.
- 2006-2009 [7] Nedimović, M. R. (PI); Awarded by the Natural Sciences and Engineering Research Council of Canada Discovery Program; Amount \$56,700 (18,900 per year); Title: “Subduction zone seismic hazards, oceanic crust evolution, and paleoclimate reconstruction”.
- 2006-2009 [6] Steckler, M. S. (PI), Finkel, R. C., Lavier, L. L., Malinverno, A., Nedimović, M. R., Schaefer, J. M., Seeber, L., Stark, C. P., Thompson, S. N. and Willet, S. D. (co-PIs); Awarded by the United States National Science Foundation; Amount \$2,200,000; Title: “Collaborative research: Uplift and faulting at the transition from subduction to collision - a field and modeling study of the Calabrian arc”.
- 2006-2008 [5] Nedimović, M. R. (PI); Awarded by the United States National Science Foundation; Award Number OCE-0624401; Amount \$168,972; Title: “Deep magmatic plumbing of the lower crust and uppermost mantle at the East Pacific Rise at 9°50'N by 3D multichannel seismics”; Cost of data acquisition ~\$4,000,000 USD.

- 2006-2009 [4] Nedimović, M. R. (PI), Webb, S. C. and Diebold, J. B. (co-PIs); Awarded by the United States National Science Foundation; Award Number OCE-04-52792; Amount \$611,391; Title: “Megathrust seismic hazards by reflection mapping”. Estimated cost of data acquisition is ~\$2,500,000. NOTE: Due to budget cuts NSF has “defunded” this project 10 months after we were informed that they plan to fund it.
- 2006-2009 [3] Nedimović, M. R. (PI) and Christie-Blick, N. (co-PI); Award Number OCE-04-53904; Amount \$319,649 (Lamont part); Title: “Collaborative research: 3D MCS imaging and waveform analysis of Miocene sequences offshore New Jersey”. In collaboration with Mountain, G. S. (PI) and Miller, K. G. (co-PI) from Rutgers University. Estimated cost of data acquisition is ~\$1,350,000. NOTE: Due to budget cuts NSF has “defunded” this project 6 months after we were informed that they plan to fund it.
- 2006-2009 [2] Nedimović, M. R. and Blumberg, D. (PIs); Awarded by the Climate Center Committee supported by the Vetlesen Foundation; Amount \$5,500; Title: “Paleoclimate reconstruction of the Late Quaternary and evolution of aeolian sand encroachments in the northwestern Negev Desert”; Data acquisition is planned for year 2008.
- 2004-2006 [1] Nedimović, M. R. (PI) and Carbotte, S. M. (co-PI); Awarded by the United States National Science Foundation; Award Number OCE-0424966; Amount \$82,722; Title: “Crossdip processing of swath 3D seismic reflection data”.

Editorship

- 2008- • Associate Editor for *Journal of Geophysical Research - Solid Earth*.

Invited seminars and short courses

- 2018 • Controlled source seismics in crystalline crust: Orphan Basin. Orphan Basin Workshop, BHP - Petroleum Long Term Renewal, Houston, Texas.
- 2016 • Formation of oceanic crust at fast and intermediate spreading rates. TOSST/HOSST program, Halifax, Nova Scotia.
- 2016 • Formation of oceanic crust at fast and intermediate spreading rates. Dalhousie University, Halifax, Nova Scotia.
- 2015 • Formation of oceanic crust at fast and intermediate spreading rates. University of Alberta, Edmonton, Alberta.
- 2015 • 2D and 3D multichannel seismic method: Deep imaging, amplitudes and velocities. UNOLS/NSF Langseth Meeting, Washington D.C.
- 2014 • Formation of oceanic crust at fast and intermediate spreading rates. Observatoire de la Cote d’Azur and CNRS, Nice, France.
- 2014 • Formation of oceanic crust at fast and intermediate spreading rates. University of Toronto, Toronto, Ontario.

- 2014 • Accretion, structure and evolution of oceanic plates formed at intermediate to fast spreading rates. Nanjing University, Nanjing, China.
- 2013 • 3D structure from crooked-line land and feathered marine 2D seismic reflection surveys. Institut de Physique du Globe de Paris, Paris, France.
- 2013 • Juan de Fuca plate from accretion to subduction. École Normale Supérieure, Paris, France.
- 2012 • Short course on extracting 3D structure from crooked-line land and feathered marine 2D seismic reflection surveys. Observatoire de la Cote d'Azur and CNRS, Nice, France.
- 2012 • Are OBS data useful for deepwater petroleum exploration? Insights from the OBWAVE experiment offshore Newfoundland. CNRS, Nice, France.
- 2012 • Juan de Fuca plate from accretion to subduction. Observatoire de la Cote d'Azur, Nice, France.
- 2012 • Juan de Fuca plate from accretion to subduction. The University of Texas at Austin Institute for Geophysics, Austin, Texas.
- 2011 • Methods of seismic refraction data analysis for the OBWAVE Project. Exxon-Mobil Upstream Research Company, Houston, Texas.
- 2011 • Juan de Fuca oceanic plate from birth to death. Geological Survey of Canada - Atlantic, Halifax, Nova Scotia.
- 2010 • Upcoming study of the Alaska/Aleutian subduction zone (Sept 2010): Mapping megathrust properties and hazards using controlled source marine seismic data. Geophysical Institute, University of Alaska, Fairbanks, Alaska. (*Donna Shillington and Mladen Nedimović.*)
- 2010 • Traveltime and waveform tomography applied to long-streamer data; opportunities in dense OBS deployments. R/V Marcus G. Langseth Workshop: Challenges and Opportunities in Academic Marine Seismology, Incline Village, Nevada.
- 2009 • Structure and evolution of the Juan de Fuca plate from accretion to subduction. "Distinguished Lecturer" series at the Department of Geology and Geophysics, Wyoming University, Laramie, Wyoming.
- 2009 • Upper crustal evolution across the Juan de Fuca ridge flanks. Department of Oceanography, Dalhousie University, Halifax, Nova Scotia.
- 2007 • Calabria GPS network: Site reconnaissance and installation. Calabria Workshop, Lamont-Doherty Earth Observatory of Columbia University, Palisades, New York.
- 2007 • Study of the Atlantic margins of Brazil and Angola. ExxonMobil Upstream Research Company, Houston, Texas. (*Harm van Avendonk and Mladen Nedimović.*)
- 2006 • Structure and evolution of the oceanic Juan de Fuca plate from accretion to subduction. Scripps Institution of Oceanography, San Diego, California.

- 2006 • 3D structure from 2D seismic reflection surveys. The University of Texas at Austin Institute for Geophysics, Austin, Texas.
- 2005 • 3D structure from 2D seismic reflection surveys. Department of Earth Sciences, Dalhousie University, Halifax, Nova Scotia.
- 2005 • Structure and evolution of the oceanic Juan de Fuca plate from accretion to subduction. Department of Earth Sciences, Dalhousie University, Halifax, Nova Scotia.
- 2005 • Structure, evolution and seismicity of the oceanic Juan de Fuca plate from accretion to subduction. Department of Geology and Geophysics, University of Hawaii, Manoa, Hawaii.
- 2005 • Structure, evolution and seismicity of the oceanic Juan de Fuca plate from accretion to subduction. The University of Texas at Austin Institute for Geophysics, Austin, Texas.
- 2005 • Structure, evolution and seismicity of the oceanic Juan de Fuca plate from accretion to subduction. Department of Earth Sciences, Syracuse University, Syracuse, New York.
- 2004 • 3D structure from 2D seismic reflection surveys. NIS-Naftagas, Belgrade, Serbia and Montenegro.
- 2004 • Crustal structure and seismic activity at subduction zones. Serbian Geological Society and Division for Geophysics, University of Belgrade, Belgrade, Serbia and Montenegro.
- 2004 • From accretion to subduction: Structure and evolution of the oceanic Juan de Fuca plate. Department of Geology, University of Toronto, Toronto, Ontario.
- 2004 • Three short seismic stories from the Cascadia margin. Department of Geology and Geophysics, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts.
- 2004 • Controlled source imaging of the Cascadia margin. Waveform Tomography 2004: Beyond the First Arrival; A workshop and a short course, Department of Geological Sciences and Geological Engineering, Queen's University, Kingston, Ontario.
- 2004 • Reflection signature of seismic and deep aseismic slip on subduction thrust. Department of Geology and Geophysics, College of Geosciences, Texas A&M University, College Station, Texas.
- 2004 • 3D structure from 2D seismic reflection surveys. Department of Geology and Geophysics, College of Geosciences, Texas A&M University, College Station, Texas.
- 2003 • Reflection imaging: 2D surveys - 3D structure. Department of Geology and Geophysics, University of Hawaii, Manoa, Hawaii.
- 2003 • Reflection signature of seismic and aseismic slip on the northern Cascadia subduction thrust. Seismology, Geology and Tectonophysics Seminar Series at the Lamont-Doherty Earth Observatory, Columbia University, Palisades, New York.

- 2003 • 3D structure from 2D seismic reflection surveys. Marine Geology and Geophysics Seminar Series at the Lamont-Doherty Earth Observatory, Columbia University, Palisades, New York.
- 2001 • Extracting 3D structure from 2D land and marine seismic reflection data: Examples from Ontario and Philippine Sea. Department of Geosciences, University of Manitoba, Winnipeg, Manitoba.
- 2001 • 3D structure from 2D crooked line seismic reflection data. School of Earth and Ocean Sciences, University of British Columbia, Vancouver, British Columbia.
- 1999 • Seismic reflection imaging in crystalline terrains: Major challenges and suggested solutions. Pacific Geoscience Centre, Geological Survey of Canada, Sidney, British Columbia.

Postdoctoral supervision and research associates

- 2018-2020 • Hanchao Jian, Ocean Frontiers Institute Dal-WHOI Post Doctorate Fellow, Dalhousie University and WHOI.
- 2016-2017 • Fabio Perosi, Post Doctorate Research Associate, Dalhousie University. Now Associate Professor, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.
- 2011-2013 • Anne Bécel, Post Doctorate Fellow, Columbia University. Now Lamont Assistant Research Professor, Columbia University, New York, USA.
- 2011-2014 • Berta Biescas, Marie Currie International Post Doctorate Fellow, Dalhousie University. Now researcher at the Unidad de Tecnología Marina - Consejo Superior de Investigaciones Científicas, Barcelona, Spain.
- 2010-2013 • Louise Watremez, Post Doctorate Fellow, Dalhousie University. Now Assistant Professor at LILLE 1 University, Lille, France.
- 2010- • Helen Lau, Research Associate, Dalhousie University.
- 2008-2010 • Matthias Delescluse, Post Doctorate Fellow, Dalhousie University. Now Professor at École Normale Supérieure in Paris, France.
- 2008-2009 • Ranzi Mirshak, Post Doctorate Fellow, Dalhousie University. Now with the Defence Research and Development Canada, Ottawa, Canada.
- 2007-2010 • Helene Carton, Post Doctorate Research Scientist, Columbia University. Now Assistant Professor, Institut de Physique du Globe de Paris, Paris, France.

Graduate student supervision

- 2016- • Ana Corbalán, Ph.D. student, Dalhousie University; Scholarships received: 2016-2018 scholarship from Fundación Bancaria La Caixa, Spain and 2017-2021 NSERC Create TOSST Scholarship.
- 2016- • Lisa Samrock, Ph.D. student, Kiel University; Scholarships received: HOSST Scholarship.

- 2016 • Reyes Montes Jorge Ismael, Visiting Student, Dalhousie University; Full scholarship from the National Council of Science and Technology (CONACYT) of Mexico. Now doing his MSc at the Centro de Investigacion Cientifica y de Educacion Superior de Ensenada, Mexico.
- 2015- • Falko Vehling, Ph.D. student, Kiel University; Scholarships received: HOSST Scholarship.
- 2015- • Tatum Herrero, Ph.D. student, Kiel University; Scholarships received: HOSST Scholarship.
- 2015- • Masoud Aali, Ph.D. student, Dalhousie University; Scholarships received: 2015-2019 NSERC Create TOSST Scholarship, 2017 Bill Nickerson Award.
- 2013- • Dustin Whalen, M.Sc. student, Dalhousie University; On a scholarship from the Geological Survey of Canada.
- 2013-2014 • Aaron Farkas, M.Sc. student, Dalhousie University. Dropped out to pursue other interests.
- 2011- • Harold Kuehn, Ph.D. student, Dalhousie University; Scholarships received: Nedimović Family Scholarship, 2015, 2016 and 2017.
- 2010-2014 • Tanya Forde, M.Sc. student, Dalhousie University; Scholarships received: Lew King Award.
- 2008-2010 • Eric Negulic, M.Sc. student, Dalhousie University; Scholarships received: Pengrowth Nova Scotia Petroleum Innovation Grant. Now with Artisanal Gold Council, Vancouver, BC, Canada.
- 2007-2013 • Omid Aghaei, Ph.D. student, Dalhousie University; Scholarships received: Nedimović Family Scholarship, 2013. Shell Canada (2013-2018), Calgary, Canada, Now with Absolute Imaging, Calgary, Canada.
- 2007-2009 • Cody MacDonald, M.Sc. student, Dalhousie University; Scholarships received: Pengrowth Nova Scotia Petroleum Innovation Grant. Now with ExxonMobil, Houston, USA.
- 2007-2010 • Clarke Campbell, M.Sc. student, Dalhousie University; Scholarships received: Pengrowth Nova Scotia Petroleum Innovation Grant. Now with Talisman in Calgary, Canada.
- 2007-2009 • Jonathan Cribb, M.Sc. student, Dalhousie University; Scholarships received: Pengrowth Nova Scotia Petroleum Innovation Grant. Now with Shell Canada, Calgary, Canada.
- 2006-2013 • Milena Marjanović, Ph.D. student, Columbia University; Scholarships received: Columbia University Graduate Scholarship; SEG Scholarship. Now a Marie Currie International Post Doctorate Fellow at IPGP, Paris, France.
- 2005-2010 • Kori R. Newman, Ph.D. student, Columbia University; Scholarships received: Columbia University Graduate Scholarship; Bruce C. Heezen Graduate Research Fellowship. PhD degree not completed: Now works for geophysical environmental consulting companies in the US.

Undergraduate student supervision

- 2017-2018 • Graham Kerford, honours thesis student, Dalhousie University; B.Sc. thesis title: Structure of the Mohorovičić discontinuity (Moho) at the East Pacific Rise from multichannel seismic reflection data. Best honours presentation award. Now an M.Sc. student at the University of Calgary.
- 2017-2018 • Colton Bentley, honours thesis student, Dalhousie University; Dropped due to family illness.
- 2013-2014 • Mitch Grace, honours thesis student, Dalhousie University; B.Sc. thesis title: Seismic reflection imaging of the incoming plate in the Alaska subduction zone. Now an M.Sc. student at the University of New Brunswick.
- 2012 • Adam Bartlett, summer student, Dalhousie University; Funded by NSERC USRA.
- 2011 • Aaron Farkas, summer student, Dalhousie University; Funded by Shell's SELF Program.
- 2010 • Peter Regan, summer student, Dalhousie University; Funded by Shell's SELF Program.
- 2010 • Darragh O'Connor, summer student, Dalhousie University; Funded by Shell's SELF Program.
- 2007-2008 • Eric Negulic, summer and honors thesis student, Dalhousie University; Funded by Shell's SELF Program; B.Sc. thesis title: 4D thermal and petroleum systems modeling of the central Scotian slope in and around the eastern Shelburne sub-basin.
- 2007 • Matthew Kliffer, summer student, Dalhousie University; Funded by Shell's SELF Program.
- 2003 • Teresa Riehl, summer intern, Columbia University.
- 2002 • Karen Simon, honors thesis, University of Victoria.

Thesis supervisory and/or examining committee membership

- 2008-2014 • Shuoshuo Han, Ph.D. student, supervisory committee, Columbia Univ.
- 2007 • Yue Wu, Ph.D. student, examining committee, Dalhousie Univ.
- 2007 • Karen Simon, M.Sc. student, examining committee, Dalhousie Univ.
- 2007-2011 • Sakalima Sikaneta, Ph.D. student, supervisory committee, Dalhousie Univ.
- 2006-2013 • Joanna Gerlings, Ph.D. student, supervisory committee, Dalhousie Univ.
- 2007-2009 • Dawn Kellet, Ph.D. student, supervisory committee, Dalhousie Univ.
- 2006-2009 • Virginia Brake, M.Sc. student, supervisory committee, Dalhousie Univ.

Thesis external supervisory and examination committee

- 2017 • External examiner for Rajesh Vayavur, Simon Fraser University; PhD thesis.

- 2016 • External examiner for Jiyao Li, Lamont-Doherty Earth Observatory of Columbia University; PhD thesis.
- 2009 • External Ph.D. thesis committee member for Jordan Lee Hayes, Ph.D. candidate at the Department of Geology and Geophysics, University of Wyoming.
- 2008 • External examiner for Julie Smith, Memorial University; M.Sc. thesis.

Contributions as a reviewer

- 2000-present • Canada Research Chair Tier I
- NSERC Industrial Research Chair
- NSERC Discovery Grants
- NSF Programs (OCE, EAR, Margins, RIDGE2000, etc.)
- NERC (Natural Environment Research Council)
- National Science Centre, Poland
- Tenure and Promotion External Reviewer
- Nature
- Science
- Nature Geoscience
- Geology
- G-cubed
- Journal of Geophysical Research - Solid Earth
- Geophysical Journal International
- Geophysical Research Letters
- Economic Geology
- Geophysics
- Society of Petroleum Engineers - Reservoir Evaluation and Engineering

Other contributions (including administration at Dal)

- 2017-2018 • Member of the Department of Earth Sciences, Dalhousie University, DFA Diversity Faculty Position in Geophysics Search Committee.
- 2016-2017 • Member of the Department of Earth Sciences, Dalhousie University, Canada Research Chair in Coastal Processes Search Committee.
- 2016- • Member of the Department of Earth Sciences, Dalhousie University, Space Committee.

- 2016- • Member of the Department of Earth Sciences, Dalhousie University, Shell SELF Committee.
- 2016- • Member of the Department of Earth Sciences, Dalhousie University, Overhead Committee.
- 2015 • Acting Chair, Earth Sciences, Dalhousie University.
- 2014-2017 • Member of the Geosciences Selection Committee and Evaluation Group (EG 1506) for the NSERC Discovery Program.
- 2014-2008-2010 • Associate Chair at the Department of Earth Sciences, Dalhousie University (includes Space Committee, Overhead Committee, Shell SELF Committee).
- 2014-2015 • Member of the Department of Earth Sciences, Dalhousie University, Chair Search Committee (external candidate search).
- 2014-2015 • Member of the Department of Earth Sciences, Dalhousie University, Search Committee for a new tenure-track assistant professor.
- 2013-2016 • Member of the Dalhousie University Promotions and Tenure Appeals Committee.
- 2012 • Started Nedimović Family Graduate Scholarship in the Department of Earth Sciences, Dalhousie University, with a 50,000 dollar endowment.
- 2011-2015 • Chair of the Department of Earth Sciences, Dalhousie University, Tenure and Promotions Committee.
- 2011-2014 • Member of the Department of Earth Sciences, Dalhousie University, Award Nominations Committee.
- 2010 • Member of the MoHole Workshop steering committee, Kanazawa, Japan.
- 2009-10 • Chair of the Department of Earth Sciences NSERC-IRC in Salt Tectonics search committee.
- 2010 • Interviewed by Global Network Television.
- 2009 • Member of the Faculty of Sciences CERC (Canada Excellence Research Chair) in Ocean Science and Technology search committee. Our CERC candidate was approved by the CERC Selection Board, along with only 18 other candidates for all of Canada. CERC receives 10,000,000 CAD funding from the federal government.
- 2008-2009 • Member of the Faculty of Sciences search committee, Dalhousie University, for the Department of Economics Chair.
- 2006-2008 • Member of the Steering, Technical and Publications committees for the Central Atlantic Conjugate Margins Conference, Halifax 2008.
- 2007 • Member of the Department of Earth Sciences, Dalhousie University, Carnegie Chair Committee.
- 2007 • Co-proponent for two IODP Missions: Mission Moho and Mission Continental Rifting and Breakup.
- 2006-11 • Member of the Department of Earth Sciences, Dalhousie University, Graduate Studies Committee.

- 2006-11 • Member of the Department of Earth Sciences, Dalhousie University, Computing Committee.
- 2006-11 • Representative of the Department of Earth Sciences on the Dalhousie University Science Library Committee.
- 2004-2007 • Worked with Paul Henkart from Scripps Institution of Oceanography on incorporating into SIOSEIS software my codes for swath 3D processing of crooked-line 2D land and feathered 2D marine seismic reflection data.
- 2006 • Interviewed by the Educational Program of Radio and Television Serbia about subduction zone earthquakes.
- 2006 • My contributions to understanding the complexities of the deep magmatic plumbing systems at mid-ocean ridges were featured in the Lamont-Doherty Earth Observatory Biennial Information Piece and the Lamont-Doherty Earth Observatory Biennial Report for years 2004-6, under the solid earth dynamics research.
- 2006 • Member of the LDEO Search Committee for a full-time active source marine seismologist.
- 2005-2006 • Member of the Lamont-Doherty Earth Observatory of Columbia University Post Doctoral Fellowship Committee.
- 2005 • My research published in Nature in 2005 that provides insight into the complexity of the deep magmatic plumbing at mid-ocean ridges and supports the hypothesis on crustal accretion from multiple magma bodies was featured on the front page of the National Science Foundation webpage, on the RIDGE2000 webpage under the "ridge-related science in the news" section, as well as on other web pages worldwide.
- 2005 • Member of the Steering Committee for the "3-D Seismic Reflection Imaging: A new opportunity for Marine Geoscience Research" workshop held at the Lamont-Doherty Earth Observatory of Columbia University in September of 2005.
- 2004 • In the Fall 2004 I discussed my research on reflection mapping of subduction earthquake rupture area with Nathan Williams, a producer for the BBC Two's flagship 50-minute science documentary series Horizon, who was filming an episode on the potential hazard posed by the Cascadia subduction zone. I was also interviewed by Kate Ravilious who was writing an article for the Focus magazine to be published in conjunction with the forthcoming BBC Horizon program.
- 2004 • My contributions to understanding the subduction zone seismic hazards were featured in the Lamont-Doherty Earth Observatory Biennial Information Piece and the Lamont-Doherty Earth Observatory Biennial Report for years 2002-4, under the solid earth dynamics research.

- 2004
 - Ideas and methods I developed with Gordon West on improving imaging and extracting 3D structure from crooked-line 2D land or feathered 2D marine seismic reflection data, along with two of our figures, are included in the Second Edition of a bestseller textbook *Elements of 3D Seismology*, Christopher L. Liner, *Pennwell Publishing Company*, 557 p, to be published in 2004; First Edition published in 1999.
- 2003-2004
 - Marine Geology and Geophysics Division Seminar Series Coordinator at the Lamont-Doherty Earth Observatory of Columbia University.
- 2003-2004
 - I wrote the convergent margins part of the successful proposal to NSF (Diebold, J. B. PI, NSF OCE 03-42067, \$3,975,279) to upgrade MCS capabilities on the *R/V Maurice Ewing*. I also contributed to the Lamont's successful proposal to NSF (Purdy, G. M. and Diebold, J. B. PIs, NSF OCE 04-07354, \$6,237,250) to buy a replacement vessel for Ewing. John Diebold and I wrote the reflection imaging part of the science section of the proposal.
- 2003-2004
 - Concepts and a figure about the research I did in collaboration with my west coast colleagues on reflection mapping of the great earthquake rupture area at the northern Cascadia subduction zone are included in the Second Edition of a bestseller textbook *The Solid Earth: An Introduction to Global Geophysics*, C. Mary R. Fowler, *Cambridge University Press*, 2004. Articles about this research were also featured on the front page of the *New York Sun* (August 12th, 2003), *Vancouver Sun* (August 14th, 2003) and *Victoria Times Colonist* (August 14th, 2003), with additional articles published worldwide in other daily newspapers and on web sites.
- 1999
 - Invited speaker at the retirement gala for Prof. G. F. West, Royal York Hotel, Toronto, Canada.
- 1999
 - Piano recital delivered at the Society of Exploration Geophysicists Presidential Session, SEG Annual Meeting in Houston, Texas.
- 1998
 - Invited speaker at the inauguration of the TECK Chair in Exploration Geophysics, Massey College, University of Toronto, Toronto, Canada.
- 1995-2006
 - School of Graduate Studies Council student member, University of Toronto.

Extracurricular activities and achievements

- Theatre Resource Centre - Clown through mask, teacher Sue Morisson (1997).
- Mountaineering Association of Serbia. Degree received: Speleologist (May 3rd, 1986).
- Music school “Davorin Jenko”, classical piano (1973 to 1979). Graduated in June, 1979.
- Hobbies: Music and collecting books, maps, fossils, minerals and crystals.