2. 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 6^{th}, 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 30^{th}, 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 16^{th}, 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

2006-11 • Canada Research Chair in Geophysics and Petroleum Exploration.

2001-02 • Canadian Government Laboratory Visiting Fellow.

2000-01 • Canadian Government Laboratory Visiting Fellow.

1997-98 • University of Toronto Open Doctoral Fellowship.

1997-98 • Canadian Society of Exploration Geophysicists Scholarship.

1997 • Hart House Film Board Post Production Grant.

1997 • Hart House Film Board Production Grant.

1996-97 • University of Toronto Open Doctoral Fellowship.

1995-96 • Canadian Society of Exploration Geophysicists Scholarship.

1995-96 • University of Toronto Open Doctoral Fellowship.

1994-95 • Ontario Graduate Scholarship.

1992-93 • State Oil & Gas Company of Yugoslavia Graduate Scholarship.

Work experience

Date	• From August 1^{st}, 2006 to present.
Employer	• Department of Earth Sciences at Dalhousie University, Halifax, Nova Scotia, Canada; Lamont-Doherty Earth Observatory of Columbia University, New York, USA.
Position	• Associate Professor and Canada Research Chair in Geophysics and Petroleum Exploration at the Department of Earth Sciences, Dalhousie University - from August 1^{st}, 2008 also Associate Chair; Adjunct Research Scientist at the Lamont-Doherty Earth Observatory of Columbia University.
Interests	• Oceanic crustal 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 passive margins; climate change, etc.

Date	• From August 1^{st}, 2004 to July 31^{st}, 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 28^{th}, 2002, to July 31^{st}, 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 7^{th}, 2000, to July 27^{th}, 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 10^{th}, 1991, to January 15^{th}, 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	• June - August, 2008.
Employer	• Columbia University.
Position	• Co-chief scientist. Project EPR 3D. Three-dimensional multichannel seismic survey of the East Pacific Rise at $9^0$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 Endeavor*. 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 2008.
Employer	• Department of Earth Sciences, Dalhousie University.
Position	• Lecturer for undergraduate/graduate course "Introduction to Seismic Imaging". (*Developed course.*)
Duties	• One 1 hour lecture and 3 hour lab every week. Evaluated lab assignments.

Date	• Fall and Winter sessions 2007-2009.
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 2006-2008.
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.

Publications

2008 [21] 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. To be submitted to *Geochem. Geophys. Geosyst.* in November 2008.

2008 [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. Revised manuscript submitted to *Nature* in October 2008.

2008 [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. Submitted to *Earth Planet. Sci. Lett.* in October 2008.

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.*, 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, *Zapisnici 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, *Ear. 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.* 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.*, 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 upon request. Star indicates work by a graduate student or a postdoc supervised by Nedimović.**

Abstracts, newsletters and reports

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, $9^0$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 $9^0$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., Marjanovic, 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.

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 subbasin, Scotia margin, Central Atlantic Conjugate Margin Conference.

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.

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.

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.

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.

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 [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 (Invited) [28] Nedimović, M. R., Hyndman, R. D., Ramachandran, K., Spence G. D. and 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 (Invited) [22] Nedimović, M. R., Hyndman, R. D., Ramachandran, K., Spence G. D. and 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, 10^{th} 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., Dingler, 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, 28^{th} Annual Meeting of the Canadian Geophysical Union, Abstract Volume.

2002 [8] Nedimović, M. R. and Mazzotti, S., Crossdip moveout in feathered 2D marine studies, 28^{th} 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, 70^{th} 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, 69^{th} 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, 8^{th} 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

2009-2012
- 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"; Data acquisition is planned for year 2009. 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
- Louden, K. E. (PI) and Nedimović, M. R. (co-PI); 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*.

2007-2010
- 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
- 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". Seismic oceanography data collected in summer 2007. Solid earth seismic data to be collected in summer 2009.

2007-2010
- 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
- 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
- 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
- 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
- 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 • 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 9^0 50' N by 3D multichannel seismics"; Data acquisition carried out in year 2008. Cost of data acquisition ∼$3,000,000.

2006-2009 • 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"; Data acquisition is planned for year 2007. Estimated cost of data acquisition for 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 • 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. Data acquisition is planned for year 2006. 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 • Nedimović, M. R. and Blumberg, D. (PIs); Awarded by the Climate Center Committee supported by the Vetlessen 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 • 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, lectures and presentations

2008 • 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.

Contributions

2008- • Member of the Faculty of Sciences search committee, Dalhousie University, for the Department of Economics Chair.

2008 • Calabria Summer School Lecturer. Calabria Summer School is funded by the NSF Continental Dynamics Section to give hands on knowledge on Calabrian geodynamics to undergraduate and graduate earth science students from southern Italy, USA and elsewhere.

2006-8 • 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- • Member of the Department of Earth Sciences, Dalhousie University, Graduate Studies Committee.

2006- • Member of the Department of Earth Sciences, Dalhousie University, Computing Committee.

2006- • Representative of the Department of Earth Sciences on the Dalhousie University Science Library Committee.

2004-7 • I am currently working 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. The intent is to provide the academic community with tools for crossdip processing.

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.

2005-6 • 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. Pall Einarsson from the University of Iceland, Jian Lin from Woods Hole Oceanographic Institution, and others requested images from this work for textbook and teaching purposes.

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.

2003-4 • Marine Geology and Geophysics Division Seminar Series Coordinator at the Lamont-Doherty Earth Observatory of Columbia University.

2003-4 • I wrote the convergent margins part of the recent 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.

2003-4 • 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 12^{th}, 2003), *Vancouver Sun* (August 14^{th}, 2003) and *Victoria Times Colonist* (August 14^{th}, 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.

1995-6 • School of Graduate Studies Council student member, University of Toronto.

Postdoctoral supervision

2008- • Matthias Delescluse, Post Doctorate Fellow, Dalhousie University.

2008- • Ramzi Mirshak, Post Doctorate Fellow, Dalhousie University.

2007- • Helen Carton, Post Doctorate Research Scientist, Columbia University.

Graduate student supervision

2008- • Eric Negulic, M.Sc. student, Dalhousie University; Scholarships received: Pengrowth Nova Scotia Petroleum Innovation Grant.

2007- • Omid Aghaei, Ph.D. student, Dalhousie University.

2007- • Cody MacDonald, M.Sc. student, Dalhousie University; Scholarships received: Pengrowth Nova Scotia Petroleum Innovation Grant.

2007- • Clarke Campbell, M.Sc. student, Dalhousie University; Scholarships received: Pengrowth Nova Scotia Petroleum Innovation Grant.

2007- • Mike Giles, M.Sc. student, Dalhousie University; Scholarships received: Pengrowth Nova Scotia Petroleum Innovation Grant; Lew King Award.

2007- • Jonathan Cribb, M.Sc. student, Dalhousie University; Scholarships received: Pengrowth Nova Scotia Petroleum Innovation Grant.

2006- • Milena Marjanović, Ph.D. student, Columbia University; Scholarships received: Columbia University Graduate Scholarship; SEG Scholarship.

2005- • Kori R. Newman, Ph.D. student, Columbia University; Scholarships received: Columbia University Graduate Scholarship; Bruce C. Heezen Graduate Research Fellowship.

Note • I have worked with and have helped many graduate students and postdocs but I have not until recently held a position that would allow me to officially supervise them. Some of this work has resulted in important graduate student and postdoc publications such as those with Janet Baran - graduate student, Emily van Ark - graduate student, and Nathan Hayward postdoc (please see the reference list).

Undergraduate student supervision

2007 • 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 examining committee member

2007 • Yue Wu, Ph.D. student, examining committee, Dalhousie Univ.

2007 • Karen Simon, M.Sc. student, examining committee, Dalhousie Univ.

2007- • Sakalima Sikaneta, Ph.D. student, supervisory committee, Dalhousie Univ.

2007- • Calvin Campbell, Ph.D. student, supervisory committee, Dalhousie Univ.

2007- • Dawn Kellet, Ph.D. student, supervisory committee, Dalhousie Univ.

2006- • Virginia Brake, M.Sc. student, supervisory committee, Dalhousie Univ.

2006- • Joanna Gerlings, Ph.D. student, supervisory committee, Dalhousie Univ.

External examiner

2008 • Julie Smith, Memorial University; M.Sc. thesis titled: The southern margin of Flemish Cap, offshore Newfoundland: Processing and interpretation of seismological data provide insight into the rifting evolution.

Computer skills

System managing	• Network of UNIX based (Solaris and SunOS) work stations at the Geophysics Labs, University of Toronto. From September 1993 to September 2000.
Geophysical software	• Seismic software: Focus, ProMAX, Globe Claritas, INSIGHT, DISCO, VISTA. Other geophysical software: MAGIX - PLUS, RESINV, VES.
Programming languages	• Fortran • C • HTML • C-Shell • BASIC

Extracurricular activities and achievements

- Theatre Resource Centre - Clown through mask, teacher Sue Morisson (1997).
- Mountaineering Association of Serbia. Degree received: Speleologist (May 3^{rd}, 1986).
- Music school "Davorin Jenko", classical piano (1973 to 1979). Graduated in June, 1979.
- Hobbies: Music, film & video, collecting fossils, minerals and crystal.