

Steven W. Denyszyn

Curriculum Vitae

Berkeley Geochronology Center
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Citizenship: Canadian

Education

- 2008 Ph.D. - University of Toronto, Department of Geology
Research areas: paleomagnetism, U-Pb geochronology, plate reconstructions
Thesis title: Paleomagnetism, geochemistry and U-Pb geochronology of Proterozoic mafic intrusions in the High Arctic: Relevance to the Nares Strait problem. Supervisors: Henry Halls, Don Davis
Courses taken in: tectonic modelling, isotope geochemistry, U-Pb geochronology
- 2003 M.Sc. in Geology (Doctoral stream) – University of Toronto
Thesis title: Paleomagnetic and geochemical correlation of dykes between Greenland and Canada, and the Nares Strait controversy. Supervisor: Henry Halls
Courses taken in: regional Precambrian geophysics, mantle petrology, geodynamics, magmatic ore deposits, paleoenvironmental analysis
- 1998-2002 B.Sc. in Geology – University of Toronto
Undergraduate thesis title: Magnetic fabrics in the Voisey's Bay intrusion, Labrador
Graduated from Geology specialist programme

Professional Experience

- 2008-present Postdoctoral Research Fellow, Berkeley Geochronology Center
- 2006, 2007 Sessional Lecturer I – University of Toronto
Course Instructor for ERS203: Rock-Forming Processes, an undergraduate course in igneous, sedimentary and metamorphic petrology.
- 2002-present Research Assistant – University of Toronto
Master's/Doctoral Thesis
Trained/supervised undergraduates in research programmes
- 2002-present Teaching Assistant – University of Toronto
For first- and second-year courses Earth Materials, Earth Systems Engineering, Rock-Forming Processes, Confronting Global Change, Introduction to Planet Earth
Instructed weekly laboratory sessions and field excursions, and participated in creating and grading exams and lab assignments.

Scholarships and Awards

- 2006/2007 Ontario Government Scholarship in Science and Technology (OGSST)
- 2006 GAC Geophysics Division Student Award for Best Student Presentation at GAC-MAC Annual Meeting, Montreal 2006
- 2006 Best Presentation, U. of Toronto Geology Dept. "Rockfest" Seminar Series

- 2005/2006 Ontario Graduate Scholarship (OGS)
 2005 GAC Geophysics Division Honourable Mention, Best Student Presentation at GAC-MAC-CSPG-CSSS Joint Assembly, Halifax 2005
 2005 Margaret Amelia Miller Graduate Scholarship
 2004/2005 Ontario Government Scholarship in Science and Technology (OGSST)
 2004 Best Presentation, U. of Toronto Geology Dept. "Rockfest" Seminar Series
 2004 Logan Grant awarded by the Geological Association of Canada, applied for on behalf of the Association of Geology Graduate Students at the University of Toronto
 2003/2004 Ontario Government Scholarship in Science and Technology (OGSST)
 2003 A.T. Griffis Graduate Scholarship
 2003 Margaret Amelia Miller Graduate Scholarship
 2002-2005 Northern Scientific Training Programme Grant for Arctic research (administered by the Government of Canada)
 2002-2005 University of Toronto Fellowship

Peer-Reviewed Publications and Manuscripts

Denyszyn, S. W., Halls H. C., Davis D. W. (2006): A paleomagnetic, geochemical and U-Pb geochronological comparison of the Thule (Greenland) and Devon Island (Canada) dyke swarms and its relevance to the Nares Strait problem. *Polarforschung* 73: 63-75.

Abstracts and Presentations at Professional Meetings

Denyszyn, S. W., Davis, D. W., Halls, H. C. A geochronological and paleomagnetic study of the Franklin intrusions, High Arctic Canada and Greenland, and the problem of alpha recoil in baddeleyite dating. Geological Association of Canada – Mineralogical Association of Canada Joint Annual Meeting May 2007, Yellowknife, Canada. Program with Abstracts GAC-MAC 2007, v.32, p. 21. Speaker

Denyszyn S. W., Halls H. C., Davis D. W. A solution to the Nares Strait problem: Paleomagnetic, geochemical, and U-Pb geochronological correlation of Proterozoic dyke swarms between Arctic Canada and northwest Greenland. Geological Association of Canada – Mineralogical Association of Canada Joint Annual Meeting May 2007, Yellowknife, Canada. Program with Abstracts GAC-MAC 2007, v. 32, p. 21. Invited Speaker.

Denyszyn S. W., Halls H. C., Davis D. W. Paleomagnetism, geochemistry and U-Pb geochronology of orthogonal dykes in the Canadian High Arctic and Greenland, and tectonic implications. Geological Association of Canada – Mineralogical Association of Canada Joint Annual Meeting May 2006, Montreal, Canada. Program with Abstracts GAC-MAC 2006, v. 31, p. 37. Speaker, Winner of GAC Geophysics Division Best Student Paper

Denyszyn S. W., Halls H. C., Davis D. W. Paleomagnetic, geochemical and U-Pb geochronological study of mafic dykes of Ellesmere Island, Devon Island and Greenland: Implications for the Nares Strait Problem, and for episodes of rapid drift of Laurentia during

Proterozoic time. European Geosciences Union General Assembly April 2006, Vienna, Austria. Abstract EGU06-A-07997. Poster.

Denyszyn S. W., Halls H. C., Davis D. W. Paleomagnetic, geochemical and U-Pb geochronological study of Proterozoic dykes in Greenland and Arctic Canada, and their role in plate tectonic reconstruction. Geological Association of Canada – Mineralogical Association of Canada Joint Annual Meeting May 2005, Halifax, Canada. Program with Abstracts GAC-MAC 2005, v. 30, p. 43. Speaker, Honourable Mention from GAC Geophysics Division for Best Student Paper

Denyszyn, S. W., Halls H. C., Davis, D. W. Paleomagnetism and U-Pb geochronology of the Melville Bugt dyke swarm, northwestern Greenland, and implications for Laurentia-Baltica reconstructions in the late Paleoproterozoic. European Geosciences Union General Assembly April 2005, Vienna, Austria. Abstract EGU05-A-09597. Poster

Denyszyn S. W., Halls H. C. Paleomagnetic, geochemical and U-Pb geochronological correlation of Proterozoic dykes between Greenland and Canada, and its bearing on the Nares Strait Problem. Geological Association of Canada – Mineralogical Association of Canada Joint Annual Meeting May 2004, St. Catharines, Canada. Program with Abstracts GAC-MAC 2004, v. 29, p. 441. Speaker

Denyszyn S. W., Halls H. C. Paleomagnetic, geochemical and U-Pb geochronological correlation of Proterozoic dykes between Greenland and Canada, and its bearing on the Nares Strait Problem. American Geophysical Union, Spring Meeting May 2004, Montreal, Canada. Abstract GP33B-05. Speaker

Denyszyn S. W., Halls H. C. Paleomagnetic and geochemical correlation of dykes between Greenland and Ellesmere Island, Canada. 4th International Conference on Arctic Margins October 2003, Dartmouth, Canada. Program with Abstracts ICAM IV 2003, p. 68. Speaker

Denyszyn S. W., Halls H. C. Paleomagnetic correlation of dykes in Canada and Greenland, and its bearing on the Nares Strait problem. European Geophysical Society – American Geophysical Union – European Union of Geosciences Joint Assembly April 2003, Nice, France. Abstract EAE03-J-07887. Poster

Other Presentations

Paleomagnetic, geochemical and U-Pb geochronological study of Proterozoic dykes in Greenland and Arctic Canada, and their role in plate tectonic reconstruction. Invited Speaker, May 2005, Dalhousie University, Halifax, Nova Scotia

Paleomagnetic, geochemical and U-Pb geochronological correlation of Proterozoic dykes between Greenland and Canada, and its bearing on the Nares Strait Problem. Invited Speaker, May 2005 Geological Survey of Canada (Atlantic), Dartmouth, Nova Scotia

Short Courses

- May 2005 GAC Short Course on ThermoChronology, presented by the Geological Association of Canada's Isotope Geoscience Division
- January 2003 Kimberlites and their indicator minerals, presented by the Society of Economic Geologists and the University of Toronto

Collaborations

- Dr. Marcos Zentilli and Dr. Alexander Grist, Dalhousie University
Apatite fission track study on dykes in Arctic Canada and Greenland
- Dr. Michael Hamilton, University of Toronto
Use of paleomagnetic and U-Pb geochronological analyses in Laurentia-Baltica reconstructions

Technical Expertise

- Paleomagnetic laboratory methods, including use of spinner and cryogenic magnetometers, single-axis and automated demagnetization methods, as well as rock magnetic instruments for susceptibility/temperature and anisotropy of magnetic susceptibility measurements.
- Familiarity with thermal-ionization mass spectrometer (TIMS) for U-Pb geochronological applications, and X-ray fluorescence (XRF) and instrumental neutron activation analysis (INAA) for geochemical analyses.
- Field collection and sample preparation methods for all the above.
- Proficient in extraction of baddeleyite for single-grain U-Pb geochronological analysis

Departmental Involvement

- 2004-2005 President, Association of Graduate Geology Students, University of Toronto: involved sitting on departmental committees (graduate affairs, departmental council), liaising with professional organizations (e.g. GAC), speaking on behalf of the graduate student population when needed, co-ordinating various aspects of graduate student life at the department.
- 2003-2004 Assisted in co-ordination of "Rockfest", the weekly departmental seminar series.
- 2000-2001 President, Undergraduate Geology Association, University of Toronto.

Professional Affiliations

- Geological Association of Canada
Canadian Geophysical Union
American Geophysical Union
European Geosciences Union
Prospectors and Developers Association of Canada