

**RESUME**  
**G. NELSON EBY**

**DATE:** November 12, 2009

**EDUCATION:**

Ph.D., Geology, Boston University, 1971  
M.S., Geology, Lehigh University, 1967  
B.A., Geology, Lehigh University, 1965

**PROFESSIONAL AND RESEARCH EXPERIENCE:**

University of Massachusetts Lowell  
Professor, 1986-present  
Associate Professor, 1975-1986  
Assistant Professor, 1972-1975  
Instructor, 1970-1972

Affiliated Faculty Member, University of Massachusetts School of Marine Sciences, 2003-present

Faculty Associate, Center for Complex Environmental Systems (CCES), University of Massachusetts Lowell, 2001-present

Faculty Associate, Center for Environmental Engineering, Science and Technology (CEEST), University of Massachusetts Lowell, 1992-2001

Principal Researcher, Russian Academy of Sciences, 1999

Visiting Associate Professor, Boston University, 1985

Visiting Academic

Department of Geology, University of Canterbury, New Zealand, 1998, 1990  
Department of Geology and Mineralogy, University of Queensland, Australia, 1997-1998, 1989  
Department of Earth Sciences, University of Oxford, 1987, 1982

Guest of the Institute, MIT, 1969-1971

Industrial

Exxon Minerals, 1972, 1968, 1967  
North American Exploration, 1966  
Cleveland Cliffs Iron, 1965

## **COURSES TAUGHT:**

### General Education:

Forensic Geology (Honor's course)  
General Geology I & II  
Introduction to Environmental Science  
Introduction to Environmental Science (Honor's course)  
Introduction to the Oceans  
The Earth and Its Environment I & II

### Undergraduate Science Majors:

Introduction to Computers in the Geosciences (freshman-junior)  
Principles of Earth and Environmental Systems I & II (sophomore)  
Oceanography (sophomore-junior)  
Environmental Geochemistry (junior)  
Igneous & Metamorphic Petrology (junior-senior)  
Mineralogy & Crystallography (junior-senior)  
Sedimentation & Stratigraphy (junior-senior)  
Structural Geology (junior-senior)  
Honors Research in Geology (senior honor's projects)

### Advanced Undergraduate - Graduate:

Advanced Geochemistry  
Applied Geophysics  
Economic Geology  
Geological Oceanography

## **UNDERGRADUATE RESEARCH PROJECTS SUPERVISOR:**

*Trace Element Geochemistry and Sources of Cameroon Volcanic Line Oceanic Basalts* - Kathy Milidakis (2001)

*Trace Element Geochemistry and Sources of Cameroon Volcanic Line Continental Basalts* - Jaime Hussey (2001)

*Instrumental Neutron Activation Analysis of Lyttelton lavas and a petrogenetic model for the Lyttelton volcano, New Zealand* - Lori Weeden (2000)

*K-Ar and U-Pb Geochronology of the North Nyasa Alkaline Province, Malawi* - Craig Carpenter (1997)

*Geochemistry of the Granite Mountain and Bath Quarry Syenite Complexes, Arkansas Alkaline Province* - Louis Burkhardt (1995)

*Geochemistry of the Magnet Cove and Potash Sulfur Springs Carbonatite Complexes, Arkansas Alkaline Province* - Gino Tiella (1995)

*Petrology and Geochemistry of the Beemerville Complex, New Jersey* - Laurene Poland (1993)

*Nepheline Syenite and Mafic Dike Rocks of the Beemerville Carbonatite-Alkalic Rock Complex, New Jersey* - Scott Maher (1993)

*Partial Analysis of the Foliated Diorite Unit of the Mount Pawtuckaway Ring-dike Complex* - Mark Kick (1990)

*Geochronology and Petrochemistry of Chaone and Chinduzi Plutons of the Chilwa Alkaline Province, Malawi* - Elizabeth Herling (1989)

*Trace Element Geochemistry and Apatite Fission-track Geochronology for Zomba and Malosa Mountains, Malawi* - Wade Ewing (1989)

*Major Element Geochemistry and Petrology of Little Rattlesnake Hill, Fremont, New Hampshire* - William Stefanov (1987)

*Petrology of the Foliated Diorite Unit of the Mount Pawtuckaway Plutonic Complex* - John Dadoly (1985)

*Geochemistry of the Merrymeeting Lake Complex, White Mountain Petrographic Province* - Robert Peterson (1981)

*Geochemistry of the Mount Pawtuckaway Ring-dike complex, White Mountain Petrographic Province* - Mark Lambert and James Plunkett (1981)

*Physical and Biological Aspects of Spruce Swamp* - Thomas Dufresne, William Smith, and Thomas Valorose (1974)

## **MASTERS RESEARCH PROJECTS:**

### **Master's Thesis Advisor:**

*Major and Rare-earth Geochemistry of Mount Rougemont, Quebec* - Carolyn Jacobson, Department of Geology, Boston University (1980-1981)

### **M.S. Thesis Committee:**

*Modal and Acoustic Evaluation for the Petrographic Properties of Florida Coarse Aggregate* - Peter Tavilla, Department of Mechanical Engineering, University of Massachusetts, Lowell (2007)

*A Case Study of the Princeton, Massachusetts "Father's Day" Tornado of June 17, 2001* - Richard Hamel, Department of Environmental, Earth, and Atmospheric Sciences, University of Massachusetts, Lowell (2004)

**Msc. External Examiner:**

*The Geology of Lyttelton 1 Volcano* - Robert E. E. Neumayr, Department of Geological Sciences, University of Canterbury, New Zealand (1998)

**PH. D. RESEARCH PROJECTS:**

**Ph.D. Thesis Committee:**

*Mapping, petrologic and geochemical explorations of the Massabesic Gneiss Complex in New Hampshire* - Charles Kerwin, Department of Earth Sciences, University of New Hampshire (2002-2007)

*Atmospheric Deposition of Metals and Organics onto Massachusetts and Cape Cod Bays: A Comparison of Measurement Techniques and Source Apportionment* - Jeffrey Underhill, Department of Civil Engineering, University of Massachusetts, Lowell (1993-1995)

**Ph.D. External Examiner:**

*Archaean Crustal Evolution in Eastern Finland: New Geochronological and Geochemical Constraints from the Kuhmo Terrain and the Nurmes Belt* - Aski Käpyaho, Department of Geology, University of Helsinki, Finland (2007). **Official Opponent**

*Magmatic Processes Associated with the Development of Large Silicic Calderas* - Ben Kennedy, Department of Earth and Planetary Sciences, McGill University, Canada (2006)

*Geochronology, Geochemistry and Petrography of Late Archaean to Early Cretaceous Magmatic Rocks in Northeast China: Implication for Development of the Central Asian Orogenic Belt* - Matthew Grant, Department of Geology, Curtin University of Technology, Australia (2005)

*Petrogenesis of the Late Archean Quetico Alkaline Suite Intrusions, Western Superior Province, Canada* - Birgitte Lassen, Department of Earth Sciences, University of Ottawa, Canada (2004)

*The Petrology of the Hohonu Batholith, North Westland, New Zealand* - Tod Waight, Department of Geology, University of Canterbury, New Zealand (1995)

**Ph.D. External Advisor:**

*Mineralogy, petrology and geochemistry of Foid-Syenites of East Azarbaijan, NW Iran* - Nasser Ashrafi, Department of Geology, Faculty of Natural Sciences, Tabriz University, Iran (2007 - present)

*Mineralogy and Trace Elements of the Cretaceous Greymouth Coals and their Combustion Products* - Li Zhongsheng, Department of Geological Sciences, University of Canterbury, New Zealand (1998-2002)

*Provenance Study of the Torlesse Terranes - Implications for the Origin of the Continental Crust of Eastern New Zealand* - Anekant Wandress, Department of Geological Sciences, University of Canterbury, New Zealand (1998-2002)

*Eruptional and Post-Eruptional Processes in Rhyolite Domes* - Jens Richnow, Department of Geological Sciences, University of Canterbury, New Zealand (1998-1999)

*The Petrology and Geochemistry of Tongariro Volcano, New Zealand* - Barbara Hobden, Department of Geology, University of Canterbury, New Zealand (1990-1993)

#### **UNIVERSITY SERVICE ACTIVITIES:**

Faculty Advisor:

Outing Club, 1996

Sigma Gamma Epsilon (Earth Science Honor Society), 1990-present

Society of Environmental Scientists, 1990-2005

Rugby Club, 1993-1994

University Honors' Program:

Chair, Honors Council Steering Committee, 2004-present

Department Coordinator, 1996-present

Member of Honors' Council, 1996-present

University Speaker's Bureau, 1990-1996

Topical presentations at local high schools

Career planning presentations

Bourgeois Residential College Adopt-A-Faculty Program, 1992-1994

Faculty Senate

Senator, 1992-1996

Member, Research and Development Committee, 1992-1996

Chair, Research and Development Committee, 1995-1996

Member of Executive Committee, 1995-1996

Member, Graduate Policy and Affairs Committee, 1996-1997

Graduate Committee, College of Arts & Sciences

Member 1992-present

Chair, 1996-present

University Radiation Safety Committee

Member, 1977-present

University General Education Committee

Member 2006-present

#### **HONORS:**

Listed in Who's Who in America Science and Engineering, 1999-present

Erskine Fellow, University of Canterbury, New Zealand, 1998

Listed in Who's Who Among America's Teachers, 1996-present

Listed in American Men & Women of Science, 1989-present

Elected Fellow, Geological Society of America, 1986

Visiting Senior Fellow, Linacre College, University of Oxford, 1982-present  
Elected Full Member, Sigma Xi, The Scientific Research Society, 1971

#### **GRANTS AND CONTRACTS:**

NATO Collaborative Research Grants Programme - Petrogenesis of ultrapotassic lavas, carbonatites and mantle xenoliths, southwest Uganda, 1996-1998 (\$6,000)

National Research Council Collaboration in Basic Science and Engineering Grants Program - Geology, Geochemistry, Geochronology, Isotope Geology and Petrogenesis of Early Proterozoic A-type Granitoids, Kola Peninsula, Russia, 1996 (\$2,200)

Massachusetts Department of Public Health - Neutron Activation Analysis of Arsenic in Hair, 1994 (\$1,000)

Polaroid Corporation - Neutron Activation and Analysis to Determine Cr Concentration in Paper Samples, 1992 (\$338)

Massachusetts Bays Program - Atmospheric Deposition of Contaminants onto Massachusetts and Cape Cod Bays (co-PI), 1991-1993 (\$149,998)

Geological Survey of Canada - Geochemical Study of Magmatic Rocks of the Saint John District, New Brunswick, 1988-1989 (\$7,000)

NATO Collaborative Research Grants Programme - Mineralogy and Geochemistry of Pre-Chilwa Province Alkaline Rocks, Malawi, 1988-1989 (\$5,500)

Geological Survey of Canada - Geochemistry of Basaltic Rocks of the Saint John Area, New Brunswick, 1987-1988 (\$6,000)

Geological Survey of Canada - Petrography and Geochemistry of Volcanic Rocks from the St. John District of New Brunswick, 1986-1987 (\$5,000)

U. S. Geological Survey - Fission-track Geochronology of the Arkansas Alkaline Province, 1986 (\$3,000)

National Science Foundation - Petrography, Geochemistry, Geochronology, and Isotope Geology of Selected White Mountain Plutons (EAR-8600058), 1986-1988 (\$40,000)

National Science Foundation - Acquisition of Gamma-Ray Spectroscopy Equipment for Research in the Earth and Environmental Sciences (EAR-8507042), 1985-1986 (\$40,000 matching fund)

National Science Foundation - Acquisition of Research Microscope and Accessories for Research in Geology (PRM-8112191), 1982-1983 (\$24,700)

Geological Society of America Penrose Grant, 1969-1970 (\$1,500)

## **PROFESSIONAL MEMBERSHIPS:**

American Geophysical Union  
Association of Engineering Geologists, New England Section  
Geochemical Society  
Geological Society of America  
Geological Society of New Hampshire  
Health and Geology Division, Geological Society of America  
Mineralogical Association of Canada  
Mineralogical Society of America  
National Association of Geology Teachers

## **OTHER PROFESSIONAL ACTIVITIES:**

### **Editorial:**

*Lithos* - co-Editor-in-Chief, 2007-present

*The Canadian Mineralogist* - Associate Editor, 1995-1998

*Journal of African Earth Sciences* - Regional Editor, 1994-1997

Co-editor of a special issue of *The Canadian Mineralogist*, "Alkaline Rocks: Petrology and Mineralogy", 1996, v. 34, pt. 2.

### **National:**

National Science Foundation, Division of Undergraduate Education, CCD/UFE panel member, 1996, 1997, 1999

Geological Society of America Campus Representative, 1985-present

### **Meetings:**

Co-organizer of a special session on Geology and Health. Northeast Section meeting of the Geological Society of America, Durham, New Hampshire (2007)

Member of the organizing committee, Association of Engineering Geologists National Meeting, Boston, 2006

Co-organizer of a special symposium on the alkaline rocks, GAC/MAC meeting, spring 1994

Geological Society of America Northeast Section Meeting, Boston, 1976. Member of organizing committee, treasurer and in charge of registration

### **Leadership:**

Vice-President, New Hampshire Geological Society, 1994-1996

President, University of Massachusetts-Lowell Sigma Xi Club, 1984-1989, 1976-1982. University delegate to a number of National Sigma Xi meetings

Member and Chairperson of Burlington Conservation Commission, 1976-1982. Responsible for the enforcement of the Massachusetts Wetlands Protection Act and acquisition and development of conservation land.

### **Standards Programs:**

Participant, PRIS Inter-laboratory Analytical Program for certification of sediments S-1 and S-2, 1996-1997.

Participant, U.S.G.S. round robin analysis program for new U.S.G.S. standard rock AGV-2, 1996

Participant, Canadian Certified Reference Materials Project, calibration of standard rock SY-4, 1994

Participant, international collaborative study of the chemistry of the new rock standard AC-E. Date reported in Govindaraju, K. (1987) 1987 compilation report on Ailsa Craig Granite AC-E with the participation of 128 GIT-IWG laboratories. Geostandards Newsletter 11, 203-255.

### **Short Courses and Workshops:**

NSF “Geology and Human Health”, Montana, May 2004

NSF “Teaching Petrology Workshop”, Montana, July 2003

Chautauqua “Volcanic Hazards”, Washington, July 2002

Chautauqua “Environmental Geochemistry”, Illinois, June 1992

Invited participant, Carbonatite Field Workshop, Homa Bay, Kenya, 1987

### **Presenter - Teacher Workshops**

Forensic Geology - An Inquiry Driven Approach to Learning Earth Science, Geological Association of New Jersey 2007 Annual Meeting, East Stroudsburg, PA, October 12, 2007.

Forensic Geology - An Inquiry Driven Approach to Learning Earth Science and Boston Basin Field Trip, Association of Engineering Geologists 2006 Annual Meeting, Boston, MA, November 4, 2006.

Theme Speaker, Geochemistry, New England Association of Chemistry Teachers Fifty-First Summer Conference, Roger Williams College, Bristol, RI, August 14-18, 1989.

### **Invited Lectures:**

Bates College, Boston University, Central Florida Community College, Geological Society of New Hampshire, Association of Engineering Geologists, Lehigh University, North Shore Rock & Mineral Club, Rensselaer Polytechnic Institute, United States Geological Survey (Menlo Park), University of Arkansas, University of Florida, University of Hartford, University of New Hampshire, University

of Pennsylvania, Wesleyan University, Bridgewater State College

Acadia University (CA), Carleton University (CA), Dalhousie University (CA), Geological Survey of Canada Logan Lecture (CA), St. Marys University (CA), Xavier University (CA)

University of Helsinki (FIN), University of Cordoba (AR), Kings College (UK), University of Oxford (UK), University of Edinburgh (UK), Kola Geoscience Centre (RU), Stellenbosch University (SA), University of Cape Town (SA), Rhodes University (SA), University of Auckland (NZ), University of Canterbury (NZ), Victoria University of Wellington (NZ), Panjab University (IN), Wadia Institute of Himalayan Geology (IN), Nanjing University (CHI), Peking University (CHI), University of Queensland (AUS), University of New South Wales (AUS), Macquarie University (AUS), Curtin University (AUS)

**Other:**

Contributed Instrumental Neutron Activation Analysis (INAA) page to the Cutting Edge Geochemical Instrumentation and Analysis web site.

Chair, Commonwealth College Honors Program Review Committee, Amherst, MA, 2006.

Keynote Speaker, "The Cortlandt-Beemerville Magmatic Belt and the Cameroon Volcanic Line: A Tale of Two Alkaline Provinces". Geological Association of New Jersey Twenty-First Annual Meeting, 2004.

Speaker, Massachusetts Council for International Education (MaCIE), "Killer Lakes of Cameroon", 2004-2006.

Speaker, Lowell Rotary Club, 2004.

**CURRENT RESEARCH:**

Carboniferous A-type granitoids of west-central Argentina. Joint project with P. Alasino and J. Dalhquist, CONICET.

Fluorine and chlorine in alkaline magmas as monitored by the chemistry of micas, amphiboles and apatites. Joint project with N. Charnley, University of Oxford.

Geology and geochemistry of the Cameroon Volcanic Line. Joint project with I. Njilah, University of Yaounde, Cameroon.

Petrogenesis of ultrapotassic lavas, carbonatites and mantle xenoliths, southwest Uganda. Joint project with A. R. Woolley, British Museum (now the Natural History Museum), F. Lloyd, University of Reading, and F. Stoppa, University of G. d'Annunzio, Italy.

Geology, Geochemistry, Geochronology, Isotope Geology and Petrogenesis of Early Proterozoic A-type Granitoids, Kola Peninsula, Russia. Joint project with D. Zozulya, F. Mitrofanov, T. Bayanova and Y. Balashov, Russian Academy of Sciences, Kola Science Centre.

Geochemistry of Boston Basin volcanics and argillites. Joint project with M. Thompson, Wellesley College, and C. Stewart and U. Hager, consulting geologists.

Geochemistry of mineralized carbonatites. Joint project with A. Mariano, consulting geologist, and T. Birkett, Geological Survey of Canada.

Geochemistry and petrogenesis of the Boulder Batholith, Montana. Joint project with R. I. Tilling, U. S. Geological Survey.

Geochemistry of the Chilwa alkaline province, Malawi. Joint research program with A. R. Woolley, Natural History Museum, UK.

Geochemistry and geochronology of the North Nyasa Alkaline Province, Malawi. Joint research program with A. R. Woolley, Natural History Museum, UK and G. Platt, Lakehead University, Canada.

Geology, geochemistry and geochronology of the Montereian Hills, Quebec, and White Mountains, New England, petrographic provinces.

Geochronology and geochemistry of the Beemerville alkaline complex. Joint research program with the New Jersey Geological Survey.

## **PUBLICATIONS**

### ***INVITED PAPERS:***

**Eby, G. N. (2008)** Instrumental neutron activation analysis (INAA) - practice and application. National Organization of Test, Research, and Training Reactors 2008 Annual Meeting Program with Abstracts, p. 21.

**Eby, G. N. (2007)** Forensic Geology as a Vehicle for Inquiry-Driven Learning: The Case of the Sandy Body. Geological Society of America Abstracts with Programs 39, 6, p. 458.

**Eby, N. (2006)** Distinctions between A-type granites and petrogenetic pathways. In Dall'Agnol, R. et al. (eds.) 2006. Symposium on Magmatism, Crustal Evolution, and Metallogensis of the Amazonian Craton, Abstracts Volume and Field Trips Guide. Belém, PRONEX-UFPA/SBG-NO, p. 48.

**Eby, G. N. (2006)** Carbonatites to alkali granites - Petrogenetic insights from the Chilwa and Montereian Hills-White Mountain igneous provinces. Geological Association of Canada - Mineralogical Association of Canada, Joint Annual Meeting, Montreal 2006, Program with Abstracts 31, p. 45.

**Eby, G. N., Lloyd, F. E., Woolley, A. R., and Stoppa, F. (2002)**. Geochemistry and mantle source(s) of carbonatitic and potassic lavas from SW Uganda. In Ulrych, J., Cajz, V., Adamovič, J. and Bosák, P. (eds.) HIBSCH 2002 Symposium, Excursion Guide Abstracts. Czech Geological Survey, Prague, Czech Republic, p. 73.

**Eby, G. N. (2000)** Geochronology, geochemistry and petrogenesis of the Arkansas Alkaline Province. Geological Society of America Abstracts with Programs 32, 3, p. A9.

Woolley, A. R., **Eby, G. N.**, and Platt, R. G. (1994). The North Nyasa alkaline province, Malawi. Geological

Association of Canada-Mineralogical Association of Canada Program with Abstracts 19, A121.

**Eby, G. N.,** Maher, S. G., and Poland, L. J. (1994) Petrology and geochemistry of the Beemerville nepheline syenite complex, northern New Jersey. Geological Association of Canada-Mineralogical Association of Canada Program with Abstracts 19, A32.

**Eby, G. N. (1993)** The Montereian Hills-White Mountain igneous province. An extended period of Mesozoic intraplate magmatism, eastern North America. Ancient Volcanism & Modern Analogues, IAVCEI 1993 General Assembly, p. 29.

**Eby, G. N. (1992)** A-type granitoids - myth or reality. EOS, 1992 Spring Meeting Abstracts Volume, p. 346.

**Eby, G. N. (1992)** Characterization and petrogenetic subdivision of A-type granites. In Brown, P. E. and Chappell, B. W. (eds.) Second Hutton Symposium on Granites and Related Rocks, Transactions of the Royal Society of Edinburgh 83, p. 489.

**Eby, G. N. (1989)** Trace element systematics of felsic alkaline rocks: petrogenetic and tectonic implications. 28th International Geological Congress Abstracts, v. 1, p. 432-433.

Morris, E. M. and **Eby, G. N. (1986)** Petrologic and age relations in Granite Mountain syenites. Geological Society of America Abstracts with Programs 18, p. 134.

Mariano, A. N. and **Eby, G. N. (1986)** Geology and geochronology of carbonatites peripheral to the Parana Basin, Brazil-Paraguay. Geological Association of Canada, Mineralogical Association of Canada, Canadian Geophysical Union Joint Annual Meeting Program with Abstracts 11, p. 66.

**Eby, G. N. (1985)** Mafic alkaline rocks of the Montereian Hills, Quebec. Geological Association of Canada-Mineralogical Association of Canada Program and Abstracts 10, p. A15.

**Eby, G. N. (1984)** The Montereian Hills and White Mountain alkaline igneous provinces, Eastern North America. Alkaline Igneous Rocks, Geological Society Volcanic Studies Group, Edinburgh, p. 10.

**Eby, G. N. (1983)** Geology, geochemistry, and petrogenesis of the Montereian Hills alkaline province, Quebec. Geological Society of America Abstracts with Programs 15, p. 565.

Creasy, J. W. and **Eby, G. N. (1983)** The White Mountain batholith as a model of Mesozoic felsic magmatism in New England. Geological Society of America Abstracts with Programs 15, p. 549.

#### **CONTRIBUTED PAPERS:**

**Eby, G. N. (2009)** Instrumental neutron activation analysis (INAA) and its application to forensic investigations. Geological Society of America Abstracts with Programs 41, 7, p. 309

**Eby, N. and Eby, S. (2008)** Instrumental Neutron Activation Analysis (INAA): practice and potential forensic applications. In: Donnelly, L. J. 2008 (ed). Geoscientific Equipment & Techniques at Crime Scenes. The Geological Society Forensic Geoscience Group. FGG 2008 conference, booklet of abstracts, 17 December 2008, Geological Society of London, pp. 28-30.

Duke, G. I., Carlson, R. W., and **Eby, G. N. (2008)** Two distinct sets of magma sources in Cretaceous rocks

from Magnet Cove, Prairie Creek, and other igneous centers of the Arkansas Alkaline Province, USA. *Eos Transactions AGU*, 89(53), Fall Meeting Supplement, Abstract V31C-2169.

Zozulya, D., Bayanova, T., **Eby, N.**, Kullerud, K., and Ravna, E. (2008) Geochemistry and mantle sources for Archean alkaline rocks from Greenland, the Baltic and Northern Norway. 33rd International Geological Congress Oslo 2008: CD-ROM Abstracts.

Zozulya, D.R. and **Eby, G.N.** (2008) The anorthosite - A-type peralkaline granite connection: a case study from the Keivy Terrane, Baltic Shield. Geological Association of Canada - Mineralogical Association of Canada, Joint Annual Meeting, Quebec City 2008, Abstracts 33, 190-191.

Zozulya, D. and **Eby, N.** (2006) Discrimination between Archean A-type granitoids and sanukitoid suites using tectonic setting, geochemistry and fertility type. In Dall'Agnol, R. et al. (eds.) 2006. Symposium on Magmatism, Crustal Evolution, and Metallogensis of the Amazonian Craton, Abstracts Volume and Field Trips Guide. Belém, PRONEX-UFPA/SBG-NO, p. 79.

Gméling, K., Németh, K., Martin, U., and **Eby, N.** (2004) Boron concentration in different maar-diatreme volcanic environments. Second International Maar Conference, Budapest: Abstract Volume, p. 59.

**Eby, G. N.**, Woolley, A., and Collerson, K. (2004) The Chilwa Alkaline Province, Malawi - geochemistry, isotope geology, and petrogenesis. 32<sup>nd</sup> International Geological Congress Florence 2004 - Scientific Sessions: abstracts (part 1), p. 703.

Zozulya, D. and **Eby, N.** (2004) Late Archean felsic alkaline magmatism: geology, geochemistry, and tectonic setting. 32<sup>nd</sup> International Geological Congress Florence 2004 - Scientific Sessions: abstracts (part 2), p. 904.

Li, Z., Clemens, A. H., Moore, T. A., Gong, D., Weaver, S.D., and **Eby, G. N.** (2003) Where do the maidens fly? Trace elements and what controls their fate: examples from the Greymouth coalfield, New Zealand. Programs and Abstracts for the Twentieth Annual Meeting of The Society for Organic Petrology, 20, 65-67.

**Eby, G. N.** (2002) Geochemistry and petrogenesis of the Ossipee ring complex: a model for magmatism in the younger White Mountain Igneous Province. Geological Society of America Abstracts with Programs 34, 1, A-70.

Zozulya, D. R., **Eby, G. N.**, and Bayanova, T. B. (2001) Keivy alkaline magmatism in the NE Baltic Shield: evidence for the presence of an enriched reservoir in Late Archaean mantle. In: Cassidy, K.F. et al. (eds), 2001. 4th International Archaean Symposium 2001, Extended Abstracts. AGSO - Geoscience Australia, Record 2001/37, pp. 540-542.

Zozulya, D. and **Eby, N.** (1999). Trace-element study of Kola A-granite complex: evidence for OIB-type magmatism in Early Precambrian. Proceedings of the International Conference *Precambrian Rift Formation, Magmatism, Metallogeny. Correlation of Geological Complexes in Fennoscandia*, Petrozavodsk, pp. 51-53 (in Russian and English).

Golomb, D., Ryan, D., Underhill, J., **Eby, G. N.**, Wade, T., and Zemba, S. (1994) Atmospheric deposition of toxic metals and polyaromatic hydrocarbons onto Massachusetts Bay. Annual Meeting Air & Waste Management Association, RA110.03, 10 p.

- Underhill, J. T., Golomb, D. G., Ryan, D. K., **Eby, G. N.**, Zemba, S. G., and Wade, T. L. (1994) Pollutant deposition to the Massachusetts Bays. EOS, 1994 Spring Meeting Abstracts Volume, p. 79.
- Eby, G. N.** and Sclar, C. B. (1993) Geochemistry of magmatic titanite from the Beemerville nepheline syenite, Sussex County, New Jersey. Geological Society of America Abstracts with Programs 25, 6, A-381.
- Zemba, S. G., Golomb, D., S., Ryan, D. K., **Eby, G. N.**, Underhill, J. T., and Wade, T. L. (1993) Annual deposition of pollutants to the Massachusetts Bays. EOS, 1993 Spring Meeting Abstracts Volume, p. 39.
- Eby, G. N.** (1993) Mount Johnson: An analog for Montereian Hills magmatism. Geological Society of America Abstracts with Programs 25, p. 13.
- Eby, G. N.**, Sclar, C. B., and Myers, P. B. (1992) A fission-track date on magmatic titanite from the Beemerville nepheline syenite, Sussex County, N. J. Geological Society of America Abstracts with Programs 24, p. 18.
- Eby, G. N.** (1992) Petrology, geochronology, geochemistry and petrogenesis of the Cuttingsville complex, Vermont. Geological Society of America Abstracts with Programs 24, p. 18.
- Eby, G. N.** (1990) Geochronology of carbonatite complexes and associated alkaline rocks: A comparison of fission-track and other radiometric methods. Nuclear Tracks and Radiation Measurements 17, p. 411.
- Donelick, R. A., Roden, M. K., Miller, D. S., and **Eby, G. N.** (1990) Post-intrusive thermal and uplift histories of Mount Ascutney and Mount Royal, eastern North America: Modelling based on heat flow and fission track length reduction calculations. Nuclear Tracks and Radiation Measurements 17, p. 411.
- Eby, G. N.** (1988) Petrology, geochemistry and isotope geology of Mount Yamaska, Montereian Hills petrographic province, Quebec. Geological Society of America Abstracts with Programs 20, pp. 16-17.
- Eby, G. N.** (1985) Geology and geochemistry of the Mount Pawtuckaway ring-dike complex, White Mountain igneous province, New Hampshire. Geological Society of America Abstracts with Programs 17, p. 17.
- Eby, G. N.** (1984) Age, geochemistry, and petrogenesis of lamprophyre dikes from the Montereian Hills and younger White Mountain igneous provinces. Geological Society of America Abstracts with Programs 16, p. 14.
- Eby, G. N.** and Creasy, J. W. (1983) Strontium and lead isotope geology of the Jurassic White Mountain batholith, New Hampshire. Geological Society of America Abstracts with Programs 15, p. 188.
- Jacobson, C. A. and **Eby, G. N.** (1981) Petrography, geochemistry, and petrogenesis of Mount Rougemont. Geological Society of America Abstracts with Programs 13, p. 139.
- Eby, G. N.** (1981) Geochemistry and petrogenesis of Mount Brome, Montereian Hills petrographic province, Quebec. Geological Society of America Abstracts with Programs 13, p. 131.
- Eby, G. N.** (1980) Geochemistry and petrogenesis of Mount Megantic, a Montereian intrusion. Geological Society of America Abstracts with Programs 13, p. 131.

- Creasy, J. W., **Eby, G. N.**, and Wood, S. A. (1979) Geochemistry of the Hart Ledge Complex, White Mountain batholith, New Hampshire. Geological Society of America Abstracts with Programs 11, p. 406.
- Eby, G. N. (1979)** Trace element partitioning between immiscible ocelli-matrix pairs in Montereian dikes and sills. Geological Society of America Abstracts with Programs 11, p. 406.
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- Eby, G. N. (1978)** Trace element geochemistry and petrogenesis of Mount Royal, a Montereian intrusive. Geological Society of America Abstracts with Programs 10, p. 40.
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