

Ethan Finley Baxter

Associate Professor
Department of Earth Sciences

Boston University
675 Commonwealth Avenue
Boston, MA 02215

Ph. 617-358-2844
Fax: 617-353-3290
Email: efb@bu.edu

Professional Preparation

Yale University - Geology & Geophysics	B.S. 1995
University of California, Berkeley - Geology	Ph.D. 2000
California Institute of Technology - Prize Postdoctoral Fellow in Geochemistry	Sept 2000-Oct 2002

Appointments

Assistant Professor of Earth Sciences, Boston University	Nov 2002 – Aug 2008
Associate Professor of Earth Sciences, Boston University	Sept 2008 – present

Research Interests

- **Isotope Geochemistry & Geochronology:** development of innovative methods to measure geologic rates and timescales at the highest levels of precision and accuracy. Measurement and modeling of isotope ratios as a tracer of dynamic geologic processes ranging from the mantle, to the crust, to the Earth's surface.
- **Solid Earth Kinetics:** measurement and model applications of the rates, timescales and mechanisms of solid earth processes including reaction, deformation, material transport, and tectonics. Integrated field-based, experimental, numerical modeling, thermodynamic, and isotope geochemical approaches.
- **Earth History:** evolution and origin of plate tectonics and long term global geochemical cycles. Interplay of the Earth's solid interior with the hydrosphere, atmosphere, and climate. Development of the geological archive of diverse Earth processes and events.

Grant History

- **NSF Grant** EAR-0911582 "Collaborative Research: Developing a Practical and Quantitative Method for Measurement of Metamorphic Porphyroblast Crystallization Kinetics and Strain Rate", start date: July 1, 2009; PI: Hirsch; Co-PIs: Stowell, Baxter; **\$104,952** (BU portion)
- **NSF Grant** EAR-0549641 "Technical Support: Laser Ablation and Inductively Coupled Plasma Laboratories - Renewal", start date: Sept. 15, 2006; PI: Plank; Co-PIs: Kurtz, Murray, Baxter; **\$160,000**
- **NSF Grant** EAR-0547999 "CAREER: Rates and Timescales of Metamorphic Reactions at Convergent Plate Boundaries", start date: January 1, 2006; PI: Baxter; **\$504,491**
- **NSF Grant** EAR-0521266 "Acquisition and Development of a Thermal Ionization Mass Spectrometer Facility at Boston University", start date: September 15, 2005; PI: Baxter; Co-PIs: Kurtz, Plank, Murray; **\$683,770**
- **NSF Grant** OPP-0441104 "SGER: Sr, Nd Isotopic Investigation of the Source and Age of Antarctic Surface Salts", start date: July 1, 2004; PI: Baxter; **\$26,504**

- **NSF Grant** EAR-0337527 "Partitioning of Noble Gases Between Crustal Minerals: Implications for Geochronology", start date: March 1, 2004; PI: Baxter; **\$155,102**

Awards & Honors

- **F.W. Clarke Medal**, 2007. Awarded annually by the Geochemical Society to one early-career scientist for a single outstanding contribution to geochemistry or cosmochemistry. Awarded at the 2007 Goldschmidt Conference, Cologne Germany (*citation: DePaolo, D.J., 2008. GCA, v. 72, p. S6*)
- **2nd Annual Boston University Faculty Awards Recognition Luncheon**, May 2007. Invited and recognized by the University Provost for awards in research and/or teaching during 2006-2007.
- **Boston University Undergraduate Research Opportunities Program (UROP) Mentor of the Year, Nominee**, 2006-2007.
- **1st Annual Boston University Faculty Awards Recognition Luncheon**, May 2006. Invited and recognized by the University Provost for awards in research and/or teaching during 2005-2006.
- **Journal of the Geological Society; Young Author Award, 2002** for "Prograde temperature-time evolution in the Barrovian type locality constrained by precise Sm/Nd garnet ages from Glen Clova, Scotland" co-authored by Profs. J.J. Ague and D.J. DePaolo.
- **California Institute of Technology, Geochemistry Option Postdoctoral Fellowship**, 2000-2001. Awarded on a competitive basis for departmental research salary and support
- **Berkeley Geochronology Center Scholarship**, 1998-99 and 1999-2000: awarded on a competitive basis to support research involving geochronology
- **AGU Outstanding Student Paper Award**. Tectonics Section, 1999 Fall Meeting
- **George D. Lauderback Award**, UC Berkeley, 1999: to recognize a graduate student distinguished in general scholarship of the earth sciences and whose studies involve significant field work
- **Belknap Prize**, Yale University, 1995: outstanding graduating senior in geology
- **Hammer Prize**, Yale University, 1995: for excellence in the Senior Thesis Oral Presentation
- **Penfield Prize**, Yale University, 1994: for excellence in mineralogy

Invited Departmental Lectures

2009	Dartmouth College	Pulses of Mineral Growth
	University of Colorado	Pulses of Mineral Growth
	University of Florida	Pulses of Mineral Growth
2008	University of Oslo, Norway	Teasing Time Out of Earth's Evolving Crust
	Geoforschungszentrum, Potsdam Germany	Teasing Time Out of Earth's Evolving Crust
	Boston College	Teasing Time Out of Earth's Evolving Crust
	Woods Hole Oceanographic Institute	Teasing Time Out of Earth's Evolving Crust
2007	Boston University – Chemistry	Reconstructing Very Slow Reaction Rates
	Boston University – Earth Sciences	Teasing Time Out of Earth's Evolving Crust
	Massachusetts Institute of Technology	Teasing Time Out of Earth's Evolving Crust
	Stanford University	Teasing Time Out of Earth's Evolving Crust
	Syracuse University	Teasing Time Out of Earth's Evolving Crust
	University of Chicago	Teasing Time Out of Earth's Evolving Crust
	University of California, Berkeley	Teasing Time Out of Earth's Evolving Crust
	Yale University	Teasing Time Out of Earth's Evolving Crust
2005	Boston College	Natural rates of metamorphic reactions

	Miami University (Ohio)	Noble Gas Partitioning and Transport
	Rutgers University	Noble Gas Partitioning and Transport
	University of Arizona	Noble Gas Partitioning and Transport
	University of Massachusetts	Natural rates of metamorphic reactions
	University of New Hampshire	Natural rates of metamorphic reactions
2004	Colgate University	Natural rates of metamorphic reactions
	Hamilton College	Natural rates of metamorphic reactions
	Oregon State University	Excess Argon In Geochronology
	Rensselaer Polytechnic Institute	Excess Argon In Geochronology
	University of Oregon	Natural rates of metamorphic reactions
	University of Vermont	Natural rates of metamorphic reactions
	Yale University	Noble Gas Partitioning and Transport
2003	Woods Hole Oceanographic Institute	Excess Argon In Geochronology
2002	Boston University	Excess Argon In Geochronology
	California Institute of Technology	Excess Argon In Geochronology
	University of California - Los Angeles	Excess Argon In Geochronology
	University of Chicago	Excess Argon In Geochronology
	University of Toronto	Excess Argon In Geochronology
2001	Brown University	Natural rates of metamorphic reactions
	Massachusetts Institute of Technology	Natural rates of metamorphic reactions
	University of California – Berkeley	Natural rates of metamorphic reactions
	University of Chicago	Natural rates of metamorphic reactions

Synergistic Professional Activities

- DIFKINTRA Workshop, Physics of Geological Processes, Univ. of Oslo, Norway, March 5-7, 2008. Invited to run a full afternoon workshop on kinetics and diffusion.
- Co-convenor (with David Shuster) of 2008 Goldschmidt Session “Physics and Chemistry of Thermochronology”
- Co-convenor (with Daniela Rubatto & Kurt Stuewe) of 2007 Goldschmidt Session “High-grade Metamorphism: Duration and Rates”
- National Science Foundation – Geochemistry & Petrology Panel 2006 (one-time appointment)
- Co-convenor (with Jay Ague & Greg Hirth) of 2004 AGU Session “Quantitative Constraints on the Rates of Reaction, Deformation and Mass Transfer”
- Associate Editor for American Journal of Science - since January 2003
- Attended NSF-sponsored “Early Career Faculty Workshop” - June 2003
- Membership in: Geological Society of America, American Geophysical Union, Mineralogical Society of America, The Geochemical Society
- Reviewer of manuscripts for: American Journal of Science, American Mineralogist, Chemical Geology, Contributions to Mineralogy and Petrology, Geochimica et Cosmochimica Acta, Geological Society of America Bulletin, Journal of Metamorphic Geology
- Reviewer of proposals for: NSF-EAR Tectonics, NSF-EAR Petrology & Geochemistry, NSF-EAR Instrumentation and Facilities, NSF-Office of Polar Programs, NSF-MRI Major Research Instrumentation

Collaborators & Advisors

- Graduate advisor: Donald DePaolo

- Postdoctoral Advisors: Paul Asimow, Kenneth Farley
- Other collaborators: Jay Ague – Yale University, Micheal Broeker - Univ. of Muenster, Daniele Cherniak - RPI, Simon Kelley – Open University, Brad Hacker – UC Santa Barbara, Paul Renne – Berkeley Geochronology Center, Jane Selverstone – New Mexico, Jay Thomas - RPI, Bruce Watson – RPI

Student Research Advised

- **Patricia Clay** - BU M.A. degree awarded Sept. 2006 (*now PhD candidate at Open University*)
- **Leah Mehl** - BU M.A. degree awarded Dec. 2007 (*now working in environmental consulting*)
- **Anthony Pollington** - BU M.A. degree awarded Dec. 2008 (*now PhD candidate at U. Wisconsin*)
- **Besim Dragovic** – BU Ph.D. candidate 2007-
- **Nora Sullivan** – BU Ph.D. candidate 2008-
- **Penny Lancaster** - BU Undergraduate Senior Thesis 2003-2004 (*MA U. Wisconsin; now PhD candidate at Bristol*)
- **Jennifer Levine** – UROP Summer 2004; BU Undergraduate Directed Study 2004-2005 (*now PhD candidate at Columbia*)
- **Aaron Mayville** - BU Undergraduate Directed Study 2004
- **Rachel Potter** – BU Undergraduate Senior Thesis 2005-2006 (*now MA candidate at Maryland*)
- **Caitlin Masaric-Johnson** – BU Undergraduate Directed Study 2005-2006
- **Julie Barkman** - UROP Summer 2006; BU Undergraduate Senior Thesis 2006-2007 (*now MA candidate at UNH*)
- **Grace Andrews** – BU Undergraduate Directed Study 2007-present
- **Eileen Koury** – BU Undergraduate Directed Study 2007
- **Raul Brens** – BU Undergraduate Directed Study 2008
- **Michelle Jordan** – BU Undergraduate Senior Thesis 2008-2009
- **Greg Wissink** – BU Undergraduate Directed Study 2009-present

Teaching

- **Mineralogy** (ES222); 4-15 students; Fall 2003, 2004, 2005, 2006, 2007, 2008, 2009
- **History of the Earth** (ES302); 20-50 students; Spring 2003, 2004, 2005, 2006, 2007, 2008, 2009
- **Geochemical Modeling** (ES571 – new course); 9-12 students; Fall 2003, Spring 2006
- **Isotope Earth Science** (ES771 – new course); 2-7 students; Fall 2004, Spring 2007, Fall 2008
- **Seminar in Earth Science** (ES587,588); 1-3 students; Fall 2004, Spring 2005

Boston University & Departmental Service

- Associate Chairman & Dir. Graduate Admissions, Earth Science 2008-2009

- Director of BU TIMS Facility – Sept 2005 to present
- Geochemistry/Petrology Faculty Search Committee Chair – 2007-2008
- Academic Advisor, CAS Advising Office Room 105 – Sept 2004 to present
- Charles River Campus Laboratory Safety Committee - Sept 2005 to present
- College of Arts & Sciences Academic Policy Committee – Fall 2006 to present
- Director of Graduate Admissions, Earth Sciences – Fall 2005 to Jan 2007; 2008-2009
- Earth Science Department Seminar Series Organizer – 2004/2005, 2005/2006 academic years
- Discussion Facilitator, “Responsible Conduct of Research” – Oct 2004
- Discussion Facilitator, CAS New Teaching Fellow Orientation – 2003, 2004
- Academic Orientation – Summer 2004, 2005, 2006
- CAS Spring Open House Program Class Visits – 2003, 2004, 2005, 2006
- Redesigned Earth Sciences Department Website – 2003
- New Graduate Student Breadth Evaluation Committee – 2003/2004, 2004/2005, 2005/2006 academic years

Community Outreach/Service

- Initiated “RoBOT: Rocks Beneath Our Toes” High School Outreach Program (part of NSF CAREER Grant) – Fall 2006, 2007, 2008, 2009
- Led “GBEST” Greater Boston Earth Science Teachers on local field trip – Sept 2005
- Presented invited lecture for the Nashua (NH) Mineral Society – 2004
- Presented invited lecture for the North Shore (MA) Rock and Mineral Society – 2003
- Coordinated ES222 Mineralogy field trip and final class presentations with members of Nashua (NH) Mineral Society who attended – 2004, 2005
- ES222 Mineralogy Field Trip to Western Mass featured in *Worcester Telegram & Gazette* newspaper article – Oct 2003
- Live-to-tape interview about The Old Man On The Mountain for PBS’s “Greater Boston” – aired May 2003

Peer-Reviewed Publications (* denotes Baxter student)

- *Pollington, A.D. and **Baxter, E.F.** (submitted). High resolution Sm/Nd garnet geochronology reveals the uneven pace of tectonometamorphic processes. Submitted to *Nature*.
- *Clay, P.L., **Baxter E.F.**, Kelley, S.P., Watson, E.B., Thomas, J., Cherniak, D.P., (submitted). Combined RBS and laser depth profiling of Ar diffusion in quartz: evidence for two diffusion pathways. Submitted to *Geochimica et Cosmochimica Acta*.
- Peterman, E.M., Hacker, B.R., and **Baxter, E.F.**, (submitted). Phase transformations of continental crust during subduction and exhumation: Western Gneiss Region, Norway. Submitted to *European Journal of Mineralogy*.

- Harvey J. and **Baxter E.F.**, 2009. An improved method for TIMS high precision neodymium isotope analysis of very small aliquots (1 – 10 ng). *Chemical Geology*, **258**, p. 251-257.
- *Lancaster, P.J., **Baxter, E.F.**, Ague, J.J., Breeding, C.M., and Owens, T.L. 2008. Synchronous peak Barrovian metamorphism driven by syn-orogenic magmatism and fluid flow in southern Connecticut, USA. *Journal of Metamorphic Geology*, **26**, p. 527-538.
- Ague, J.J., **Baxter, E.F.**, 2007. Brief Heat Pulses During Mountain Building Recorded by Sr Diffusion in Apatite. *Earth and Planetary Science Letters*, **261**, p. 500-516.
- Watson, E.B., **Baxter, E.F.**, 2007. Frontiers: Diffusion in the Solid Earth. *Earth and Planetary Science Letters*, **253**, p. 307-327.
- **Baxter, E.F.**, Asimow, P.D and Farley, K.A. 2007. Grain boundary partitioning of Ar and He. *Geochimica et Cosmochimica Acta*, **71**, p. 434-451.
- **Baxter, E.F.** and DePaolo, D.J. 2004. Can metamorphic reactions proceed faster than bulk strain? *Contributions to Mineralogy and Petrology*, **146**, p. 657-670.
- **Baxter, E.F.** 2003a. Natural Constraints on Metamorphic Reaction Rates. in *Geochronology - linking the isotopic record with petrology and textures*. eds. Vance, Muller & Villa. Geological Society of London, Special Publication, **220**, p. 183-202.
- **Baxter, E.F.** 2003b. Quantification of the factors controlling the presence of excess Ar or He. *Earth and Planetary Science Letters*, **216**, p. 619-634.
- **Baxter, E.F.**, and DePaolo, D.J. 2002a. Field Measurement of High Temperature Bulk Reaction Rates I: Theory and Technique. *American Journal of Science*, **302**, p. 442-464.
- **Baxter, E.F.**, and DePaolo, D.J. 2002b. Field Measurement of High Temperature Bulk Reaction Rates II: Interpretation of Results from a Field Site near Simplon Pass, Switzerland. *American Journal of Science*, **302**, p. 465-516.
- **Baxter, E.F.**, Ague, J.J., and DePaolo, D.J., 2002a. Prograde Temperature-Time Evolution in the Barrovian Type-Locality Constrained by Precise Sm/Nd Garnet Ages from Glen Clova, Scotland. *Journal of the Geological Society, London*, **159**, p. 71-82.
- **Baxter, E.F.**, DePaolo, D.J., and Renne, P.R., 2002b. Spatially Correlated Anomalous $^{40}\text{Ar}/^{39}\text{Ar}$ “Age” Variations About a Lithologic Contact near Simplon Pass, Switzerland: A Mechanistic Explanation for Excess Ar. *Geochimica et Cosmochimica Acta*, **66**, p. 1067-1083.
- Ague, J.J., **Baxter, E.F.**, and J.O. Eckert, 2001. High $f\text{O}_2$ During Sillimanite Zone Metamorphism of Part of the Barrovian Type Locality, Glen Clova, Scotland. *Journal of Petrology*, **42**, p. 1301-1320.
- **Baxter, E.F.**, and DePaolo, D.J., 2000. Field Measurement of Slow Metamorphic Reaction Rates at Temperatures of 500-600°C. *Science*, **288**, p. 1411-1414.

Peer-Reviewed Publications - in Preparation (* denotes Baxter student)

- *Pollington, A.D. and **Baxter, E.F.** (in prep). High precision microsampling and preparation of zoned garnet porphyroblasts for Sm-Nd geochronology. Submission planned for *Chemical Geology*.
- *Clay, P.L., **Baxter E.F.**, Kelley, S.P., Watson, E.B., Thomas, J., Cherniak, D.P., (in prep). Two Diffusive Pathways for Ar in Feldspar. Submission planned for *Earth and Planetary Science Letters*.
- *Levine, J.L., **Baxter E.F.** (in prep) Neodymium Isotopic Record of Atmospheric Dust in Salts from the Dry Valleys of Antarctica. Submission planned for *Earth and Planetary Science Letters*.

- *Mehl, L.Y., **Baxter, E.F.**, *Dragovic, B., and Selverstone, J. (in prep) Constraining the Duration and Rate of Water-Releasing Metamorphic Reactions in Subduction Zones. Submission planned for *Earth and Planetary Science Letters*.

Conferences/Abstracts (* denotes Baxter student)

- *Pollington, A.D., **Baxter, E.F.**, 2009. Pulses of rapid garnet growth observed from microsampling and Sm/Nd geochronology in a single zoned garnet. Goldschmidt Conference, Davos Switzerland.
- **Baxter, E.F.**, *Pollington, A.D., *Dragovic, B., *Jordan, M.K., and Inglis, J.D. 2009. Sm-Nd Garnet Geochronology: Higher Precision on Smaller Samples. Goldschmidt Conference, Davos Switzerland.
- **Baxter, E.F.**, *Pollington, A.D., *Mehl, L.Y., *Peterman, E.M., 2008. The Strength of Garnet Sm-Nd Geochronology: High Age Precision on Small Samples. GSA Annual Meeting, 2008.
- **Baxter, E.F.**, Harvey, J., *Pollington, A.D., *Mehl, L.Y., Peterman, E.M., 2008. High precision Nd isotopic analysis of very small aliquots (1-10ng). Goldschmidt Conference, Vancouver Canada.
- Kelley, S.P., **Baxter, E.F.**, Cherniak, D., *Clay, P.L., Thomas, J. and Watson, E.B. 2008. Two diffusion mechanisms for argon in K-feldspar? Goldschmidt Conference, Vancouver Canada.
- **Baxter, E.F.**, Harvey, J., *Mehl, L.Y., Peterman, E.M., 2007. An Improved Method for TIMS High Precision Nd Isotopic Analysis of Very Small Aliquots (1-10ng) With Example Application in Garnet Sm/Nd Geochronology. AGU Annual Fall Meeting.
- Peterman, E.M., Hacker, B.R., **Baxter, E.F.**, 2007. Sm–Nd Garnet Geochronology Demonstrates Wholesale Transformation of Continental Crust During UHP Subduction—Western Gneiss Region, Norway. AGU Fall Annual Meeting.
- *Pollington, A.D., **Baxter E.F.**, 2007. Developing New Methods for Microsampling and Sm/Nd Dating of Zoned Garnet. AGU Fall Annual Meeting.
- Peterman, E.M., Hacker, B.R., **Baxter, E.F.** 2007. Wholesale transformation of continental crust during UHP tectonism: garnet geochronology of the Western Gneiss Region, Norway. GSA Annual Meeting.
- **Baxter E.F.** 2007. KEYNOTE: Disequilibrium and Excess Argon: Teaching some bad dogs new tricks. Goldschmidt Conference, Cologne Germany.
- **Baxter E.F.**, Ague, J.J., *Lancaster, P.J. 2007. Focused pulses of regional metamorphism. Goldschmidt Conference, Cologne Germany.
- *Mehl, L.Y., *Barkman, J., **Baxter, E.F.**, 2006. Constraining the Rate of Water Releasing Metamorphic Reactions in Subduction Zones. AGU Fall Annual Meeting.
- *[†]Clay, P.L., **Baxter E.F.**, Kelley, S.P., Watson, E.B., Thomas, J., Cherniak, D.P., 2006. Multi-path diffusion: Implications for the measurement of Ar solubility and partitioning between quartz and feldspar. AGU Fall Annual Meeting [[†]received AGU Fall Meeting Student Presentation Award from the VGP Section].
- Ague, J.J., and **Baxter, E.F.** 2006. Extremely short-duration peak metamorphism in the Barrovian zones, Scotland. AGU Fall Annual Meeting.
- **Baxter E.F.**, *Clay, P.L., Kelley, S.P., Watson, E.B., Thomas, J., Cherniak, D.P., 2006. Two diffusive pathways for quartz and feldspar. Goldschmidt Conference, Melbourne Australia.

- *Clay, P.L., **Baxter E.F.**, Kelley, S.P., Watson, E.B., Thomas, J., Cherniak, D.P., 2005. Experimental Study of Noble Gas Partitioning and Diffusion in Common Crustal Minerals. AGU Fall Annual Meeting.
- **Baxter, E.F.** 2005. INVITED: Importance of Ar, He Transport and Partitioning in Grain Boundaries. Goldschmidt Conference, Moscow Idaho.
- **Baxter, E.F.**, 2005. INVITED: Comparing natural reaction kinetics for isotopic exchange and net-transfer reactions. Goldschmidt Conference, Moscow Idaho.
- *Levine, J.A. and **Baxter, E.F.** 2005. A Sr and Nd isotopic study of the sources and age of salts from the Dry Valleys of Antarctica. NE Section GSA Annual Meeting.
- *Lancaster, P.J., **Baxter, E.F.**, and Ague, J.J. 2005. Temperature-time development in the Wepawaug Schist. NE Section GSA Annual Meeting.
- **Baxter, E.F.** 2004. Field based constraints on reaction rates in the crust. AGU Fall Annual Meeting.
- **Baxter, E.F.**, Asimow, P.D., & Farley, K.A. 2003. INVITED: Measurement of Grain Boundary Partitioning of Ar and He. AGU Annual Fall Meeting.
- **Baxter, E.F.** 2003. Deciding What Reaction Rate to Use in Your Model. GSA Annual Meeting.
- Attended NSF-sponsored "Early Career Faculty Workshop" at William & Mary College, June 5-10, 2003
- **Baxter, E.F.** 2003. Accommodation of crustal excess Ar by mineral and fluid sinks. AGU Annual Spring Meeting, Nice, France.
- **Baxter, E.F.** & DePaolo, D.J., 2002. INVITED: Can metamorphic reactions proceed faster than strain? Goldschmidt Conference, Davos, Switzerland.
- **Baxter, E.F.**, Asimow, P.D., and Farley, K.A., 2001. Experimental Study of Grain Boundary Partitioning of Ar. AGU Annual Fall Meeting.
- **Baxter, E.F.**, 2001. The Transmissive Timescale: A System Parameter that Controls the Presence or Absence of Excess Ar. GSA Annual Meeting.
- **Baxter, E.F.**, 2001. INVITED: Field Measurement of Slow Metamorphic Reaction Rates and the Implications for Local Equilibrium-Based Geochemical Methods. Goldschmidt Conference, Hot Springs, Virginia.
- **Baxter, E.F.**, DePaolo, D.J., and Renne, P.R., 2001. Importance of the "Transmissive Timescale" for Ar in the Crust and a Hypothesis for Local Non-K Bearing Mineral Sinks for Ar. Goldschmidt Conference, Hot Springs, Virginia.
- **Baxter, E.F.**, DePaolo, D.J., and Renne, P.R., 2000. Ar Isotopic Variations in Biotites About a Lithologic Contact near Simplon Pass, Switzerland: Implications for Ar Bulk Diffusivity, Excess Ar, and Geochronology. AGU Annual Fall Meeting.
- **Baxter, E.F.**, Ague, J.J., and DePaolo, D.J., 2000. Tectonometamorphic History of the Barrovian Type-Locality Constrained by Precise Sm/Nd Garnet Ages from Glen Clova, Scotland. GSA Annual Meeting.
- **Baxter, E.F.**, DePaolo, D.J., and Renne, P.R., 2000. Ar and Sr Isotopic Variations About a Lithologic Contact near Simplon Pass, Switzerland: Implications for Diffusional Exchange and Geochronology. Goldschmidt Conference, Oxford, England.
- Presented research at 1999 Gordon Research Conference on Rock Deformation
- **Baxter, E.F.**, and DePaolo, D.J., 1999. Similar Rates of Reaction and Strain in the Central Alps: Evidence for a Mechanistic Link? EOS, Transactions of the American Geophysical Union, v. 80, p. 1021.

- **Baxter, E.F.**, and DePaolo, D.J., 1999. Field Measurement of Very Slow Metamorphic Reaction Rates at Simplon Pass, Switzerland. Abstracts with Programs, GSA Annual Meeting, v.31, p. 103.
- **Baxter, E.F.**, and DePaolo, D.J., 1998. Field Constraints On Syn-Metamorphic Exchange Rates, Diffusivities, and Disequilibrium from Garnet and Whole Rock Rb-Sr Isotope Systematics. Abstracts with Programs, GSA Annual Meeting, v.30, p. 381.

Other Publications

- **Baxter, E.F.**, 2008. Acceptance of the 2007 F.W. Clarke Medal. *Geochimica et Cosmochimica Acta*, **72**, p. S7-S8.
- **Baxter, E.F.** Review of “Low-Temperature Thermochemistry” eds. Reiners and Ehlers. in *Elements*, April 2006.