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Research and Teaching Interests

Paleoclimate and Climate Change, Earth Surface Processes, Environmental Geology, Geohydrology, Isotope and Low-temperature Geochemistry, Glacial Geology, Neotectonics, Geoeducation, Geohazards, Science Writing, Public Outreach for Science

Academic Training

Ph.D., 1993, Geology, University of Washington, Seattle, WA with A. Gillespie
"Cosmogenic Isotopes and the Evolution of Granitic Landforms"
MS, 1990, Geology, University of Washington, Seattle, WA with A. Gillespie
"Accuracy and Precision of Rock Varnish Cation Ratio Dating"
BA, 1985, Geology and Environmental Studies, Williams College, Williamstown, MA
"Deglaciation of Northwestern Massachusetts," (cum laude and senior thesis)

Professional Experience

2021- present Professor University of Vermont, Rubenstein School of the Environment and Natural Resources – have taught Climate: past, present, future, Climate Change, Geomorphology, Geohydrology, Geohazards, Regional Geology, Interdisciplinary Watershed Fieldcamp; Graduate seminars in Surface Processes, Environmental Geology, Neotectonics, Cosmogenic Isotopes, Critical Writing, First year Earth Hazards Seminar and lecture, and Introduction to Graduate Studies, on-line course in Vermont Landscape Change; advise, 1 PhD students, 2 MS students; direct NSF/UVM Community Cosmogenic Facility, and Landscape Change Program.

2002-2021	<u>Professor</u> University of Vermont, Geology Department and the Rubenstein School of the Environment and Natural Resources
2021, 2024	<u>Instructor</u> Renaissance Institute, Lifelong learning, Greenland in the Part and Future, Baltimore, Maryland (remote instruction, 6 weeks)
2000-2001	<u>Course Designer</u> Norwich University and VISMT, Web-based K-8 Earth Science Curriculum
1999-2002	<u>Associate Professor</u> University of Vermont, School of Natural Resources
1999-2002	<u>Associate Professor</u> University of Vermont, Geology Department
1994-present	<u>Faculty Leader</u> , Governor's Institutes of Vermont, Science and Technology
1993-1998	<u>Assistant Professor</u> University of Vermont, Geology Department
1993	<u>Invited Researcher</u> University of Adelaide, Australia -- collaborated with R. Twidale studying granite landforms
1992-1993	<u>Lecturer</u> University of Washington -- developed and taught five-credit course in Geologic Hazards
1989-1992	<u>Research Assistant</u> University of Washington, Geology -- performed fieldwork, chemical, and isotopic analyses as part of MS and Ph.D. theses
1987-1989	<u>Teaching Assistant</u> University of Washington, Geology -- developed and taught laboratories: Introductory Geology, Geomorphology, Quaternary Environments, Hillslope Geomorphology
1985-1987	<u>Hydrogeologist and Project Manager</u> Alliance Technologies, Bedford, MA. - performed hydrologic and geologic fieldwork, interpreted geologic, hydrologic, and water quality data, wrote reports and proposals
1985-1987	<u>Instructor</u> Museum of Science, Boston -- developed and taught programs designed to encourage girls' participation in science
1984-1985	<u>Teaching Assistant</u> Williams College, Geomorphology and Photography

Honors and Accomplishments

- Athena Film Festival, Science Mentor, Barnard College, 2022
 Nominated for UVM Kroepsch-Maurice Excellence in Teaching Award, 2020
 Gund Faculty Fellow, University of Vermont, 2017- present
 Nominated for NSF Presidential Awards for Excellence in Science, Mathematics & Engineering Mentoring, Governors Institute of Vermont, 2011
 Nominated as Faculty of the Year, National Society of Collegiate Scholars, 2006
 Distinguished Teaching Scholar, Director's Award, National Science Foundation, 2005
 Fellow, Center for Research on Vermont, 1998
 CAREER award for integration of research and teaching, National Science Foundation, Hydrologic Sciences, 1997
 PKAL Member, nominated 1997
 National Science Foundation, Waterman Award, nominee, 1997

Donath Medal for Research Achievements as a Young Scientist, Geological Society of America, 1996
National Science Foundation, Presidential Faculty Fellowship nominee, 1995
U.S. Delegate, International Quaternary Union, Berlin, 1995
Faculty Fellowship, University of Washington, 1992
Fuller Fellowship, University of Washington, 1991
Honorable Mention, National Science Foundation Graduate Fellowship, 1987 and 1988
Nominated to Sigma Xi, 1985
Best Student Speaker, Vermont Geological Society Meeting, Middlebury, 1985

Honors and Accomplishments of Graduate Students

Izzy Larson, UVM Gund Fellow
Cat Collins, UVM Gund Fellow
Peyton Cavnar, UVM Gund Fellow
Juliana Souza, UVM Gund Fellow
Halley Mastro, UVM Gund Fellow
Bella Bennet, UVM Gund Fellow and Doctoral fellowship
Mae Kate Campbell, UVM Gund Fellow
Hannah Weiss, UVM Gund Fellow
Chris Halsted, UVM Gund Fellow and Doctoral fellowship
Ashley Corbett, NSF DDRI award, 2014
Ashley Corbett, NSF Graduate Fellow, 2009
Jane Duxbury, Association of Women Geoscientists' Chrysalis Scholarship, 2007
Eric Butler, GTF of the Year Award, 2003
Joanna Reuter, NSF Graduate Fellow, 2003
Kyle Nichols, Geological Society of America, Mackin Award, 2002
Kyle Nichols, Jonathon Davis Award, 2002
Sarah Brown, Geological Society of America, Howard Award, 2000
Sara Gran-Mitchell, NSF Graduate Fellow, 1999
Amy Church, Geological Society of America, Howard Award, 1995

Primary University-level Courses Taught

Climate Change, (formerly Climate: past, present, future) – A course designed to teach basic climate and climate change literacy to students at all levels across campus. Structured using best practices for large courses including discussions and numerous in-class exercises, scientist portraits, and demonstrations to increase student interest. Enrollment 160-240 students.

Earth Hazards – A means by which to increase the understanding of science and geologic fundamentals in a survey course for non majors. Structured using best practices for large courses including in-class think/pair/share, videos, and participatory demonstrations to kindle student interest. Enrollment 140 to 300 students.

Geomorphology – Field-based course for scientists at the 2nd- and 3^d-year levels that emphasizes understanding processes active on Earth's dynamic surface by collecting field data. Central to the course are semester-long small group research projects including the collection of primary data followed by written and oral presentations. Enrollment 15 to 30 students.

Graduate Seminars – A variety of seminars in which we read and critique papers of interest to Geology students and those in the Field Naturalist, Engineering, SNR, and Plant and Soil Science programs. During the Critical Writing seminar, students review both their own and faculty papers which are *in draft* and have yet to be submitted to journals. Enrollment 5 to 15 students (graduates and honors undergraduates).

Other Training and Skills

Designed and set-up clean lab isotope extraction laboratories for ^{36}Cl , ^{26}Al and ^{10}Be
Experienced operator, accelerator mass spectrometer, scanning electron microscope, electron microprobe, XRF, and ICP
LIDAR Processing and Analysis, Geological Society of America Short Course, 2007
Global Positioning Systems, Geological Society of America Short Course, 1996
Ground Water Flow and Contaminant Transport, Geological Society of America Short Course, 1986
Geology Field Camp, University of Montana, Bozeman, 1983
Williams College -- Mystic Seaport Program in Maritime Studies, 1982

Web-based Resources

UVM Landscape Change Program (uvm.edu/landscape) – Since 1999, Bierman has overseen the Landscape Change Program, a public service, on-line archive of over 70,000 images of Vermont as it was and as it is. The program has been continuously supported by the NSF for over a decade and is now supported by the National Endowment for the Humanities and contains extensive resources for researchers and teachers.

UVM/NSF Community Cosmogenic Laboratory (uvm.edu/cosmolab) – For more than a decade, Bierman has maintained an extensive web site for the UVM (now NSF) community cosmogenic nuclide laboratory. The web site provides, as a community service, the details of our chemical methods and access to our publications. The web-site

provides up to date safety and operating procedures for all who work in the lab. It provides detailed construction documents for use by service personnel and visitors from around the world.

Professional Service

- Panelist, National Science Foundation, 2024 (3 panels)
- Panelist, National Science Foundation, 2023 (2 panels)
- External Reviewer, San Francisco State University, Department of Earth & Climate Science, Spring 2022.
- Moderator, National Academy of Sciences, Identifying New Community-Driven Science Themes for NSF's Support of Paleoclimate Research Workshop, 2021
- Panelist, National Science Foundation, 2021
- Panelist, National Science Foundation, 2020
- Organizer, Greenland Oldest Ice International workshop, 41 participants, 2019
- Associate Editor, Science Advances, AAAS, 2016-ongoing
- Session organizer, GSA annual meeting, 2017, 2018
- Director, UVM/NSF community cosmogenic facility, 2018- ongoing.
- Panelist, National Science Foundation, 2017-2018
- Panelist, National Science Foundation, 2017
- National Science Foundation, GEO Directorate advisory panel, 2013-2016.
- Field trip leader, NEIGC, 2018, Mt Mansfield, 46 participants
- Field trip co-leader, NEIGC, 2018, Mt Greylock, 24 participants
- Field trip leader, AGU annual meeting, Washington, DC, 2018, *Great Falls (48 participants)*
- Field trip leader, GSA annual meeting, Baltimore, MD, 2015, *Kirk Bryan Field Trip: Great Falls (84 participants)*
- Member, National Science Foundation, Surface Earth Processes Committee of Visitors, April 2014
- Liason, Arctic Sciences, National Science Foundation, Polar Programs Committee of Visitors, September 2013
- Invited participant, NSF-sponsored Workshop on Geomorphic Prediction of Landscape Response to Climate and Land Use Change in Tucson, AZ, September 2013
- National Science Foundation, Polar Programs advisory panel, 2011-2013.
- Theme Session Proposer, Organizer, and Chair, NE GSA, Bretton Woods, 2013
- Field trip co-leader, GSA annual meeting, Charlotte, NC, 2012, *Kirk Bryan Field Trip: Piedmont Potpourris: New Perspectives on An Old Landscape (and Some of its Younger Parts)*
- Proponent Expert, Thyspunt SSHAC Level 2 Seismic Hazard Workshop, Cape Town South Africa, 2012

Chair, Quaternary Geology and Geomorphology Division, Geological Society of America, 2009-2010.

First Vice-Chair, Quaternary Geology and Geomorphology Division, Geological Society of America, 2008-2009.

Co-convener, Teaching Geomorphology in the 21st Century, Cutting Edge, National Association of Geology Teachers Workshop, October 2007- August, 2008.

Second Vice-Chair, Quaternary Geology and Geomorphology Division, Geological Society of America, 2007-2008.

Session Co-organizer, International Quaternary Union, Cairns Australia, 2007

Contributor and Consultant, 2007, Fleming Museum gallery exhibit, *Burlington and Winooski 1920-2020: The Evolution of our Built Environment*

Workshop Leader, National Science Foundation, *Reconsidering the Textbook*, National Academy of Science, 2006

Field trip leader, Johns Hopkins University, 2006

Field trip leader, Geological Society of America National Meeting, 2006

Pardee session organizer, Geological Society of America National Meeting, 2006

Panelist, National Science Foundation, *Research Experience for Undergraduates*, 2006

Panelist, National Science Foundation, *Course and Curriculum Improvement*, 2005 (Phase I), 2007 (Phase 2 and 3)

Panelist, National Science Foundation, *Geomorphology and Landscape Dynamics* 2004-2006.

Member, Editorial Review Board for the DLESE Community Review System, 2004-2007.

Field trip leader, Geological Society of America Regional Meeting, 2004, *¹⁰Be and the incision history of a passive margin river, the Potomac near Great Falls and Terraces of the Potomac River at Great Falls*

Theme session organizer, Geological Society of America Regional Meeting, 2004, *Geomorphic process rates on the passive margin and New directions in Appalachian Geomorphology*

Theme session organizer, Geological Society of America National Meeting, 2003, *Large Intro Courses That Work: Sharing Exciting and Effective Teaching Strategies*

Panelist, National Science Foundation, *STC Site visit*, Univ. Minnesota, 2001

Editorial Board, *GEOLOGY*, 1999- 2005

Associate Editor, Geological Society of America Bulletin, 1997-2005

Theme session organizer, Geological Society of America Regional Meeting, *Terrestrial Records of Holocene Climate Change*, 2001

Theme session co-organizer, Geological Society of America National Meeting, *Reshaping Glacial Geomorphology*, 2000

Leader, New England Intercollegiate Geologic Conference Fieldtrip, northern Vermont, 1999

Co-leader, Field trip as part of International Conference on Drainage basin Dynamics and Morphology, Jerusalem, Israel, 1999

Symposium Organizer and chair, American Association for Advancement of Science, *Geologic Records of Human Impact*, 1998

Co-leader, New England Intercollegiate Geologic Conference Fieldtrip, Huntington, Vermont, 1997

Instructor, Geological Society of America National Meeting, *Cosmogenic Isotopes and Geomorphology* Short-course, 1994, 1995, 1997; 1999 at Hebrew University, Jerusalem

Symposium Organizer and chair, *Isotopes and Earth Surface Processes*, Geological Society of America National Meeting, 1997

Contributor, Friends of the Pleistocene Fieldtrip, Owens Valley, 1997

Panelist, National Science Foundation, *Water and Watersheds* competition, 1995 and 1999

Session Chair, Geological Society of America National Meeting, 1994

Leader and Organizer, Geological Society of America Fieldtrip, Owens Valley, 1991

Leader, National Association of Geology Teachers Fieldtrip, Williamstown Glacial Geology, 1986

Proposal reviews for Hydrologic Sciences (NSF), Tectonics (NSF), Polar Programs (NSF), Geology (NSF), Petrology (NSF), Equipment and Facilities (NSF), Earth Systems History (NSF), Geology (Australian Research Council), NASA, Army Research Office, Livermore National Laboratory, Los Alamos National Laboratory, National Environmental Research Council (Britain), Research Council of Norway, Canadian Foundation for Climate and Atmospheric Sciences, Dutch Research Council, US Civilian Research and Development Foundation, Melbourne University

Manuscript and book reviews for GEOLOGY, Geological Society of America Bulletin, American Antiquity, Quaternary Research, Quaternary International, Chemical Geology, Freeman Press, GSA Today, Earth Surface Processes and Landforms, Earth and Planetary Science Letters, Geological Society of London, Geophysical Research Letters, Kendall-Hunt, NATURE, SCIENCE, Geomorphology, McGraw Hill, Annals of the Association of American Geographers, Basin Research, Earth Surface Dynamics, Nature Communications, Proceedings of the National Academy of Science, Nature Geoscience, Nature Communications, Science Advances

Service to the University and Community

RSENR Member, University Professional Standards Committee, 2024-2025

Co-chair, Patrick Chair Search Committee, RSENR, UVM, 2021-2022

CAS Administrative Burden Reduction Committee, 2019-2020

Burack lecture host, Micheal Mann, Climate change, 2019

Expert testimony, City of Burlington, Landslide Hazard and response, Public Works and Conservation Commissions including multiple WCAX interviews, 2019

Gund Doctoral Fellowship Selection Committee, 2018

Admitted students day presentations, Arts and Sciences, 2014-2018

Associate Dean Search Committee, College of Arts and Sciences, 2014-2015

Advisor, Vermont Commons School, senior project, Mr. Ross Hiatt, S. Burlington and Burlington Interstate Highway rephotography, 6 weeks, spring 2013.

Member, Geochemistry Faculty Search Committee, 2012-2013, Geology Department Leader, *Key Concepts in Geomorphology* textbook project, with international community involvement workshops, textbook creation, and e-media development, 2008-present.

UVM review panel member, Office of the Vice President for Research, Formal Investigation of Research Misconduct, 2012.

Core Science Team member – EPSCoR Complex Systems Initiative, 2007-2009

Vermont Science Initiative, K-8 Teacher trainer, 2006-2011.

Nomination and hosting of Burack Presidential lecturers; David Montgomery (2009); Andrew Revkin (2008); Richard Alley (2005).

Physical Science lead faculty, UVM-NSF NEAGEP initiative (Northeast Alliance for Graduate Education and the Professoriate), 2007-present

Chair, Search Committee, College of Engineering and Mathematics, Ecohydrology, 2008.

Grant Task Force for a Sustainable and Desirable Future, 2007-2008.

Invited Member, planning committee for the 2008 Aiken series, focus on Complex Systems as related to Energy and the Environment, 2007-2008.

Director, EPSCoR Strand, Integrated Research on Water in the Environment, 2005-present.

Teacher Training Workshop, Vermont ESA, 2006

Vermont Environmental Science & Technologies Plan, workshop leader, 2006

Director, Landscape Change Program, 1999-present

Faculty Supervisor, ICP lab and instrument, 2003-present

Coordinator, Oakledge Park public signage project, 2003-2006

Chair, Geology faculty search committee for Geochemist, 2002-2003

Manage and maintain computing laboratories in Geology Department, 1994-2003

Cooperating Scientist, Burlington Public Works, Land use change, 1998-present

Expert Witness, representing Mansfield Avenue neighbors in regard to McAuley Square development, 1999

University Reaccreditation, Session Moderator, *UVM and Its Students*, 1998-1999

Faulty Search Committee, Active Tectonics position, Geology Department, 1998-1999

Building Advisory Committee, Perkins Geology Hall renovation, 1998-present

Teacher Advisor Program, 1998, *Earth Hazards* Class for first year students

Primary mentor to 6 Ph.D. students, 33 MS students, 5 BS theses, 1 MEd, 1 MAT, and 20 undergraduate research projects

Undergraduate Advisor, 10-15 students yearly

Presentations in Admitted Student Visitation Program, 1998

Invited Lecturer, Grant Writing Seminar, Office of Sponsored Programs, 1998

Curriculum Committee, College of Arts and Sciences, 1996-1999

Coordinator, Graduate Program, Geology Department, 1996-1998

Director, Environmental Geology Program, 1994-present

Chairperson, Physical Sciences Division, University Committee on Research and Scholarship, 1997-1998

Member Physical Sciences Division, University Committee on Research and Scholarship, 1995-1998

Liaison and Instructor, Geology Department, Governor's Institute Summer High School Science and Technology Program, 1994-present

Coordinator, external Speaker Series, Geology Department, 1994-1997

Aiken Lecture Series, University Program Committee, 1996

Participant, Undergraduate Connections Program, 1994, 1995, 1998, 1999

Funding, design and implementation of new geology computer teaching facility, 1997

Faculty Search Committee, GIS/Remote Sensing, School of Natural Resources, 1995

Faculty Search Committee, Isotope Geologist, Geology Department, 1994

Research Funding (Internal and External)

Principal Investigator, National Science Foundation, 2023-2028, Instrumentation and Facilities, *Collaborative Research: Research Infrastructure: CFS (Track III) Cosmogenic Nuclides in Earth Science Research: Allied facilities for sample preparation, analysis, and training.* \$1,460,505

Principal Investigator, National Science Foundation, 2021-2023, *Collaborative Research: A fossil ecosystem under the ice: deciphering the glacial and vegetation,* \$1,158,220 along with student support supplement of \$158,457

Principal Investigator, National Science Foundation, 2021-2024, *Collaborative Research: 3 Myr of Laurentide Ice Sheet History Inferred from Cosmogenic Nuclides in Ice-Rafted Debris,* \$358,972

Co-Investigator, US EPA Region 1, 2019-2020, *Lead in the Burlington Environment,* \$25,000

Principal Investigator, National Science Foundation, 2020-2023, *A place-based, student-led research project on the Pioneer Mountains, MT: an investigation of very dry, alpine glaciation proximal to the Laurentide Ice Sheet,* \$37,403

Principal Investigator, National Science Foundation, 2017-2022, Instrumentation and Facilities, *Development of Technique: Systematically measuring the cosmogenic $^{26}\text{Al}/^{10}\text{Be}$ production ratio at a variety of altitudes and latitudes.* \$93,453 plus \$18,200 supplement for ICP replacement

Co-Investigator, National Science Foundation, 2018-2019, *NSF Rapid -*

- Documenting the temporal variance of the isotopic signature of detrital sediments following massive stochastic events using Hurricane Maria as a case study, \$8,800*
 Principal Investigator, National Science Foundation, 2018-2023, *Laboratory Technician Support: National sample preparation facility for broadening participation, research, and hands-on research training in cosmogenic nuclide studies, \$551,678 plus supplement for sample preparation of \$19,661*
- Principal Investigator, National Science Foundation, 2017-2022, Collaborative Research: The Cuban landscape, quantifying the effects of industrialized agriculture followed by country-wide soil conservation using sediment-associated isotopes, \$79,013 plus supplement for sample preparation of \$15,756*
- Principal Investigator, National Science Foundation, 2016-2022, Collaborative Research: Constraining the Timing and Rate of Southeastern Laurentide Ice Sheet Thinning During the Last Deglaciation with Cosmogenic Nuclide Dipsticks, \$94,240.*
- Principal Investigator, National Science Foundation, 2015-2016, Instrumentation and Facilities, Workshop support - Optimizing the next generation of AMS for measuring 10-Be and 26-Al, \$9,720*
- Principal Investigator, US Geologic Survey, 2014-2015, Differential Uplift and Incision of the Yakima River, \$24,089*
- Principal Investigator, National Science Foundation (Critical Zone Observatory, subcontract), 2014-2018, Using the Susquehanna - Shale Hills CZO to Project from the Geological Past to the Anthropocene Future, \$119,985*
- Principal Investigator, National Science Foundation, 2013-2016, Collaborative Research: Canyons of the Southwestern Colorado Plateau: Transient Response to Baselevel Fall or Lithologic Control on River Incision, \$25,298*
- Principal Investigator, National Science Foundation, 2011-2016, Deciphering Connections Between Land Management, Soil Erosion, and Sediment Yield in Large River Basins (collaborative w/A. Henck and D. Rood) \$188,942*
- Principal Investigator, National Science Foundation, 2011-2014, Synchronizing the North American Varve Chronology and the Greenland Ice Core Record Using Meteoric ^{10}Be Flux (collaborative w/G. Balco, J. Ridge, D. Rood) \$125,390*
- Principal Investigator, National Endowment for the Humanities, 2010-2013, Interpreting the Interstates – how highways changed Rural America’s sense of place, \$200,000*
- Principal Investigator, National Science Foundation, Deciphering 6 My of the Greenland Ice Sheet History Using In Situ 10-Be From Marine Sediment Cores, 2010-2016, \$324,613*
- Principal Investigator, US Geological Survey, Potomac River Basin Erosion Rates, 2008-2010, \$59,493*
- Principal Investigator, National Science Foundation, CCLI - Phase I, Textbook Reconsidered - Creating the Shortbook of Geomorphology, 2008-2011, \$219,665*
- Principal Investigator, National Science Foundation, Polar Programs, Detrital*

- cosmochronology of the Greenland Ice Sheet, 2007-2009, \$273,052*
 Principal Investigator, National Science Foundation, EAR –EHR, *Piloting an Interdisciplinary Watershed Field Camp, 2006-2008, \$151,522*
- Principal Investigator, National Science Foundation, EAR-HER, *Landscape Change Imagery: preparing a DLESE-ready and easily searchable resource, 2006-2007, \$24,489*
- Principal Investigator, National Science Foundation, DUE-DTS, *Workshop proposal - Reconsidering the Textbook, 2006-2007, \$99,949*
- Co-Principle Investigator, US Geological Survey, *Evaluating Quantitative Models of Riverbank Stability, 2006-2007, \$88,114 with 2008 supplement of \$50,000.*
- Principal Investigator, National Science Foundation, DUE, Director's award for Teaching Scholars, *Landscape Imagery: a catalyst for formal and informal science education, 2005-2009, \$306,495*
- Principal Investigator, National Science Foundation, CCLI-Educational Materials Development, *Bringing Relevance to Earth Science Introductory Curricula through Images Showing Human/Landscape Interaction, 2005-2007, \$75,000*
- Principal investigator, Lintilhac Foundation, *Images of Vermont Landscape Change, 2005-2007, \$15,000*
- Principal investigator, National Science Foundation, Geoscience Education, *REU supplement for Landscape Change, 2004, \$13,700*
- Co- Investigator, National Science Foundation, Geography, *Collaborative Research - Sediment Production and Alluvial Buffering in a Steepland River Basin: Waipaoa river Basin, New Zealand, 2003-2006, \$129,301 (UVM portion)*
- Principal Investigator, National Science Foundation, Geology, *Eroding the Appalachians, 2003-2006, \$199,856*
- Principal Investigator, US Army Research Office, Principal Investigator, DEPSCoR Program, *Quantifying Erosion and Sedimentation in Extreme Environments: refining and applying the cosmogenic method for Army-relevant landscape analysis, 2003-2006, \$757,808*
- Principal Investigator, National Science Foundation, Hydrologic Sciences, 2003-2004, *Cosmogenic Constraints on Sediment Generation and Transport, Namibian Rivers 2003-2004, \$59,539*
- Principal Investigator, US Army Research Office, Principal Investigator, STIR Program, *Quantifying sediment generation in humid tropical regions using cosmogenic nuclides – A proof of method, 2002-2003, \$26,363*
- Principal Investigator, National Science Foundation, Geoscience Instrumentation and Facilities, 2002-2004, *Acquisition of ICP for research and research training, \$168,000*
- Principal Investigator, Lintilhac Foundation, 2002-2003, *Optimizing Residential Green Space Restoration Techniques, Burlington, Vermont, \$5000*

- Principal Investigator, National Science Foundation, Geoscience Education, 2001–2003.
Looking Forward -- Scaling Up The Digital Image Archive of Landscape Change,
\$99,649
- Co-Investigator, NSF Polar Programs, 2001-2002, *Deglacial history of eastern Baffin Island*, \$17,000
- Principal Investigator, NSF Geology, 2001-2004, *Erosion history of the Potomac and Susquehanna Rivers*, \$150,000
- Principal Investigator, University of Vermont, 2001, Deans fund, *Completion of campus well field*, \$1400
- Principal Investigator, University of Vermont, 2000, *Instructional Incentive Grant for multicultural development of Geohazards class*, \$2000
- Principal Investigator, USGS, 2000-2002, *Erosion of the Great Smoky Mountains National Park*, \$97,000
- Principal Investigator, subcontract to University of Washington (NASA funded), 2000,
Preparation of Cosmogenic Isotope Samples, \$50,000
- Principal Investigator, University of Argentina, 1999, *10-Be dating of rock-slides*, \$3,000
- Co-Investigator, NSF Polar Programs, 1999-2000, *Deglacial History of Baffin Island through ²⁶Al and ¹⁰Be* with T. Davis, Bentley College, \$25,000.
- Principal Investigator, National Science Foundation, Geoscience Education, *Human-Induced Landscape Change -- A Digital Image Archive Created by Students*, 1999-2001, \$74,717
- Principal Investigator, US Army Research Office, DEPSCoR, *Understanding rates of change at Earth's dynamic surface*, 1999-2002, \$225,000
- Principal Investigator, University of Leeds, *Dating glaciation in Greece*, 1998, \$1,300
- Principal Investigator, University of Vermont, *Instructional Incentive Grant for first year program*, 1998, \$1,300
- Principal Investigator, USGS, 1998-2000, *Rio Puerco Sediment Transport, New Mexico*, \$29,500
- Faculty Supervisor, University of Vermont, SUGR grant, 1998, *Dating faults in Israel*, \$5,000
- Principal Investigator, Union College, 1998, *Dating of Argentinean glaciation*, \$4,400
- Principal Investigator, University of Argentina, 1998, *10-Be dating of rock-slides*, \$2,000
- Principal Investigator, Hebrew University, 1997, *36-Cl dating of Galilee fault scarp*, \$4,800
- Principal Investigator, University of Vermont, *Travel support for Israel collaboration*, 1997, \$2,500
- Principal Investigator, US Army Research Office, 1997-1999, ASSERT supplement to
Isotopic Method For Determining Erosion Rates, \$50,000
- Principal Investigator, University of Vermont and Lintilhac Foundation, 1997-1998,
Geology Computer Laboratory for Instruction, \$144,200

Principal Investigator, University of Vermont, 1997, *Renovation of Cosmogenic Isotope Laboratory*, \$73,000

Principal Investigator, NSF Major Research Instrumentation, 1997-1998, *Equipment for Surface Process Studies*, \$161,000

Principal Investigator, NSF Hydrologic Sciences CAREER, 1997-2002, *Timing and Distribution of Extreme Hydrologic Events*, \$200,563

Principal Investigator, National Geographic Society, 1997-1998, *Quantifying Rates of Rock Weathering in Hyper-arid Southern Africa*, \$16,630

Principal Investigator, USGS NEHRP, 1997-1998, *Cosmogenic Estimates of Long term Faulting Rates*, \$34,900 with A. Gillespie (University of Washington)

Principal Investigator, subcontract to University of Wisconsin (NSF funded), 1997-1998, *Dating Wisconsin ice retreat*, \$16,000

Principal Investigator, NSF Surfaces Processes, 1996-1999, *Geomorphic Process Zones in Large Mountain Ranges*, \$50,800 with T. Dunne (UC Santa Barbara)

Principal Investigator, NSF Hydrologic Sciences, 1996-1999, *Sediment Dynamics of Large Drainage Basins*, \$115,400 with M. Johnson (Bryn Mawr) and L. Derry (Cornell)

Principal Investigator, USGS, 1996-1997, *Rio Puerco Erosion Rates, New Mexico*, \$20,500

Principal Investigator, US Army Research Office, 1996-1999, *Isotopic Method For Determining Erosion Rates*, \$216,000 with A. Cassell (UVM)

Principal Investigator, subcontract to University of Washington (NASA funded), 1996, *Preparation of Cosmogenic Isotope Samples*, \$32,000

Principal Investigator, USGS, 1995-1997, *Characterizing Ground Water Flow in a Vermont Upland Basin*, \$47,500 with Lini, Drake and Wright (UVM)

Co-Investigator, NSF Polar Programs, 1994-1997, *Deglacial History of Baffin Island through ^{26}Al and ^{10}Be* with T. Davis, Bentley College, \$162,000

Principal Investigator, University of Vermont, Dean's Fund, 1996, *Development of teaching well-field*, \$2000

Principal Investigator, US Army Research Office, STIR program, 1995, *Numerical Validation Of Isotopic Method For Determining Erosion Rates*, \$9,666

Principal Investigator, subcontract to University of Washington (NASA funded), 1994, *Preparation of Cosmogenic Isotope Samples*, \$14,100

Principal Investigator, NSF Hydrologic Science, 1993-1995, *Estimating Basin-Scale Erosion Rates Using Cosmogenic Isotopes*, \$98,988

Principal Investigator, Lintilhac Foundation, *Processes and Timing of Vermont Deglaciation*, 1994-1996, \$32,500

Principal Investigator, University of Vermont, Research Advisory Committee, *Graphical Computing Facility*, 1994-1995, \$12,800

Principal Investigator, University of Vermont, University Committee on Research and Scholarship, *Chronology of Vermont Deglaciation*, 1994-1995, \$4,000

Author and Co-Investigator, NSF Surface Processes, 1990-1992, *Exposure Age Determination Using Cosmogenic Isotopes*, \$88,000
Author and Co-Investigator, USGS NEHRP Grants and Renewals (Earthquake Hazards) 1989-1992, *Neotectonic Activity on the Lone Pine Fault*, \$57,000

Post Doctoral Associates

Andrew Christ, *Sediment from the basal Camp Century Ice core*, 2019-2023
Jeremy Shakun, Geology (part time), *Deciphering 6 My of the Greenland Ice Sheet History*, 2010-2013
Devin McPhillips, Geology, *Erosional effects of climate change from single-clast Be-10*, 2011-2013
Ari Matmon, Geology, *Erosion of the Great Smoky Mountains National Park*, 2000-2002

Current Graduate Students

Izzy Larson, **Erosivity of the Laurentide Ice Sheet**, Natural Resources MS

Former Graduate Students

1. Bella Bennett, *Investigating human-landscape interaction three ways*, Natural Resources PhD, 2025
2. Halley Mastro, *Paleoecology of the Camp Century Sediments*, NW Greenland, MS, 2025
3. Juliana Souza, *Geochemistry of the Camp Century Sediment Core Porewater*, MS, 2025
4. Cat Collins, *Physical stratigraphy of Camp Century the sub-ice core*, MS, 2024
5. Peyton Cavnar, UVM Gund Fellow, *Glacial history of eastern Canada*, MS, 2024
6. Christ Halsted, *New England deglacial history*, Natural Resources PhD, 2022
7. Mae Kate Campbell, Geology MS *Cuban erosion and landuse*, 2021
8. Hannah Weiss, Natural Resources MS, *Over-summer snow storage*, MS, 2020
9. Andrew Christ, *Antarctic glacial history investigated using ¹⁰Be*, PhD, 2019
10. Allison Denn, Geology MS, *Shale Hills CZO sediment generation and movement*, 2017
11. Veronica Sosa-Gonzales, Natural Resources Ph.D., *Human induced erosion in three rivers area of China*, 2016
12. Sophie Greene, Geology MS, *Stable beryllium extraction systematics*, 2016
13. Lee Corbett, Natural Resources, Ph.D., *Preservation and sediment cycling beneath "Ghost Glaciers": how cold-based ice dictates arctic landscape evolution*, 2016.
14. Ana Vang, Geology, MS, *The Vermont Interstate Highway system – landscape change*, 2015.
15. Thomas Neilson, Geology MS, *Tracking erosion with sediment associated isotopes in Yunnan, China*, 2015.
16. Benjamin Dejong, Natural Resources, Ph.D., *Informing coastal resource management with geologic records*, 2015

17. Luke Reusser, Natural Resources, Ph.D., *Quantifying human impacts on natural rates of erosion along continental margins*, 2014
18. Alice Nelson, Geology MS, *Using in situ cosmogenic ^{10}Be as a sediment source tracer in Greenland's paraglacial environment*, 2013
19. Veronica Sosa-Gonzales, Natural Resources MS, *Determining long-term erosion rates in Panama: An application of ^{10}Be* , 2012
20. Lee Corbett, Geology MS, *Investigating The timing of deglaciation and the efficiency of subglacial erosion in central-western Greenland with cosmogenic ^{10}Be and ^{26}Al* , 2011
21. Charles Trodick, Geology MS, *In situ and meteoric ^{10}Be concentrations of fluvial sediment collected from the Potomac River*, 2011
22. Eric Portenga, Geology MS, *Using ^{10}Be to constrain erosion rates of bedrock outcrops globally and in the central Appalachian Mountains*, 2011
23. Joseph Graly, Geology MS, *Interpretation of meteoric ^{10}Be in marginal ice-bound sediment of the Greenland Ice Sheet, West Greenland*, 2010
24. William Hackett, Geology MS, *Changing land use, climate, and hydrology in the Winooski River Basin*, Vermont, 2009
25. Mathew Jungers, Geology MS, *Using cosmogenic nuclides to determine sediment production and transport rates on steep hillslopes in varied tectonic and climatic settings*, 2008
26. Jane Duxbury, Geology MS, *Erosion of the Shenandoah National Park*, 2008
27. Colleen Sullivan, Geology MS, *Erosion of the Blue Ridge Escarpment*, 2007
28. Joanna Reuter, Geology MS, *Erosion rates and patterns inferred from cosmogenic ^{10}Be in the Susquehanna River Basin*, 2005
29. Luke Reusser, Geology MS, *Late Pleistocene bedrock channel incision of the lower Susquehanna River: Holtwood Gorge, Pennsylvania*, 2004
30. Eric Butler, Geology MAT, *Landscape history of Shelburne*, Vermont, 2004
31. Adam Parris, Geology MS, *Holocene paleohydrology in the northeastern United States: a high resolution record of storms and floods*, 2003
32. Erik Clapp, Natural Resources, Ph.D., *Long-term rates of denudation and sediment generation over different spatial scales quantified using in situ produced cosmogenic ^{10}Be and ^{26}Al in sediment and rock*, 2003
33. Kyle Nichols, Natural Resources, Ph.D., *Understanding Desert Piedmonts*, 2002
34. Anders Noren, Geology MS, *Severe storm record in New England lakes*, 2001
35. Karen Jennings, Geology MS, *Depositional histories of New England alluvial fans*, 2001
36. Kyle Nichols, Geology MS, *Investigation of different temporal and spatial scales of sediment generation*, 2000
37. Kris Bryan, Education and Geology, M.Ed., *Vermont Landforms Web page*, 2000
38. Sara Gran, Geology MS, *The displacement history of the Nahef East fault scarp, Israel: a cosmogenic ^{36}Cl approach*, 2000

39. Sarah Brown, Geology MS, *Terrestrial sediment deposition in Ritterbush Pond: Implications for Holocene storm frequency in northern Vermont*, 1999
40. Timothy Whalen, Geology MS, *Post-glacial fluvial terraces in the Winooski River Basin, Vermont*, 1998
41. Kim Marsella, Geology MS, *Timing and extent of glaciation in the Pangnirtung Fjord Region, Baffin Island: Determined using in situ produced cosmogenic ^{10}Be and ^{26}Al* , 1998
42. Amy Church, Geology MS, *Fan deposits in northwestern Vermont: depositional activity and aggradation rates over the last 9,500 years*, 1997
43. Mike Abbott, Geology MS, *Isotopic characterization of groundwater recharge and flow in an upland bedrock aquifer, Vermont*, 1997
44. Lin Li, Geology MS, *Environmental changes inferred from pollen analysis and ^{14}C ages of pond sediments. Green Mountains, Vermont*, 1996
45. Patrick Larsen, Geology MS, *In situ production rates of cosmogenic ^{10}Be and ^{26}Al over the past 21,500 years determined from the terminal moraine of the Laurentide ice sheet, north central New Jersey*, 1995

Undergraduate Honors Thesis Students

Mary Kueser, *Environment, History and Media: Effective Communications across Disciplines*, 2023

Noah Stommel, *University of Vermont Housing: Motivations Behind Institutional Sustainability Transitions*, UVM campus vision, 2020

Landon Williamson, *Cuban weathering interpreted from XRD and XRF measurements of stream sediments*, 2020

Melinda Quock, *Dominica erosion rates monitored with in situ and meteoric ^{10}Be* , 2019

Nathan Toke, *Urban storm water hydrology*, 2003.

Lyman Persico, Environmental Science BS with honors, *Tracing painted pebbles in the Mojave desert*, 2002

Darrin Santos, Environmental Science BS with honors, *Channel initiation in the Mojave desert*, 1999

Paul Zehfuss, Geology BS, *Alluvial fans in Vermont as recorder of changes in sedimentation rates due to deforestation*, 1996

Kristine Bryan, Geology BS with honors, *Deglaciation of southern Chittenden County and northern Addison County, Vermont*, 1995

Graduate Student Committees

1. Chris Larson, Geoscience PhD, University of Pennsylvania (external member), 2023- present.
2. Sandra Walser, Geology MS 2021
3. Melisa Diaz, The Ohio State University, PhD 2020 (external member)

4. Sarah Francis, Western Washington University, MS, 2018 (external member)
5. Jennifer Nair, Syracuse University, MS, 2018 (external member)
6. Marc Goedhart, South Africa, PhD, 2017 (external examiner)
7. Hennrieta Linge, Denmark, PhD, 2017 (external examiner)
8. Alyson Hampsch, Geology MS, 2017
9. Rebecca Harvey, Chemistry PhD, 2016
10. Adrian Bender, Geology, Western Washington University, 2015
11. Victoria Carhart, Chemistry, MS, 2015
12. Julia R. Larouche, Ph.D., Natural Resources, 2015
13. Allan Bacon, Ph.D., Duke University, Soil Science, 2014
14. Lalita Oka, Ph.D., Civil and Environmental Engineering, 2011
15. Jaron Borg, MS, Civil and Environmental Engineering, 2010
16. Kimmie Beal, MS Botany, 2009
17. Alexandru Codilean, University of Glasgow, PhD, 2008
18. Adam Hunt, Chemistry PhD, 2007
19. Ken Oldrid, Geology MS, 2007
20. Tiffany Larsen, Geology MS, 2007
21. Zoe Dokou, Engineering, PhD, 2007
22. Corey Coutu, Geology MS, 2007
23. Daniel Newcomb, Natural Resources MS, 2007
24. Maeve McBride, Civil and Environmental Engineering, 2007
25. Danica Lefever, Civil and Environmental Engineering, MS, 2006
26. Dave Weber, Plant and Soil Science, MS, 2006
27. Charlie Eisman, Botany MS, 2006
28. Elizabeth M. Andre, Historic Preservation, 2006
29. Kelly McCutcheon, SNR MS, 2005
30. Kwaw Andam, Engineering MS, 2003
31. Andrea Lord, Geology MS, 2002
32. Willard Morgan, Field Naturalist MS, 2002
33. Edward Navarre, Chemistry Ph.D., 2002
34. John W. Diebold, Civil Engineering MS, 2001
35. Josh Galster, Geology MS, 2001
36. Todd Menes, Natural Resources MS, 2000
37. Megan O'Reilly Natural Resources MS, 2000
38. Anne Perrault, Natural Resources MS, 2000
39. Alexander Spiliotopoulos, Engineering Ph.D., 1999
40. Adam Brown, Geology MS, 1999
41. Paul Zehfuss, Geology MS, Humboldt State University, 1998
42. Graciela Herrera, Mathematical Sciences, Ph.D. 1998
43. Chad Farrel, Engineering MS, 1998

44. Harold Linnemeyer, Engineering MS, 1997
45. Lisa Windhausen, Natural Resources MS, 1996
46. Theodore Lillys, Engineering MS, 1996
47. Michael Stevens, Field Naturalist MS, 1996
48. Erik Clapp, Geology MS, 1995
49. Heather Weiss, Plant and Soil Science MS, 1995
50. Doug Bechtel, Field Naturalist MS, 1995
51. Lyn Baldwin, Field Naturalist MS, 1995

Independent Undergraduate Research

- Jason Drebber, *New England deglacial history*, 2021-2023
- Noah Stommel, *UVM Eco Housing*, 2019-2020
- Noah Stommel, Adela Miller, and Matt Voss, *Creating an accessible climate and climate change note set for teaching*, 2020
- Hannah Weiss, *Snow storage in a warming climate, Craftsbury, Vermont* 2017-2018
- Parker Forsley, *Gully erosion of marine and lacustrine sediments in Chittenden County, Vermont*, 2015
- Taylor Kravits, *Snow melt prediction, northeastern Vermont*, 2012
- Samuel Hellman, *Mid-Atlantic Coastal Plain stratigraphy*, 2012
- James M. Taylor, *Photo-documenting changes since the 1927 in Vermont River Channels*, 2008
- Emily Reymeyer, *Computer Science and Geography BS, Automated geographic distribution analysis*, 2006
- Jehanna Howe, SNR BS, *Riparian zone quality over time*, 2005
- Michala Peabody, Geology BS, *Erosion and landsliding related to historic clearcutting in Vermont*, 2005
- Elizabeth Stanley-Mann, Geology BA, *Landscape change on the Winooski and White Rivers since the 1927 flood*, 2005
- Serena Hollmeyer, Geology BS, *Metals content of mine drainage*, 2004
- Susan King, Environmental Studies BS (thesis), *Designing an environmental education curriculum for the King Street youth Center after school program*, CALS (committee member) 2003
- Keith Musselman, Environmental Science BS, *Precipitation patterns in two paired basins on Mt. Mansfield*, 2003
- Megan McGee, Environmental Science BS, *The hydrology of remediating damaged greenspace*, 2003
- Jackie Hickerson, Environmental Science BS, *Public environmental outreach related to the hydrology of greenspace*, 2003
- Paul Melillo, Environmental Science BS, *Quantifying the hydrologic effects of greenspace loss caused by university students in Burlington*, 2002.

Angela Conlan, Environmental Science BS, *Comparing grain size measurements in lake cores*, 2001

Andrew Bosely, Environmental Science BS, *Lake Morey grain size measurements*, 2001

Jim Kurfis, Geology BS, *Urban hydrology and land-use changes*, 1999-2001

Dan Eurich, Environmental Science BS, *Campus well-field characterization*, 2000

Drew Lamneck, undecided, *Holocene lake histories in New England*, 1999

James Parker, Geology, BA, *UVM campus groundwater quality*, 1997-1998

William Oetjen, Geology and Education BA, *Field Geology Web Page*, 1997-1998

Jeremy Malczhyk, Geology BS, *Vermont Quaternary Web page*, 1997-1998

Christopher Valin, Geology BS, *Northwest Vermont terrace history*, 1996-1997

David Shaw, Geology BS, *River and groundwater interactions*, 1996-1997

Nilah Mazza, Geology BS, *Debris flows and landslides*, 1996-1997

Erin Golec, Geology BA, *Impact of urbanization on stream water quality*, 1994-1995

Parker Hacket, Geology BA, *Weathering zones on Baffin Island*, 1995-1996

Refereed Journal Publications – 214 total (graduate student author, undergraduate author, *post-doc)

Bennett, I., Bierman, P.R., *Soto-Villanueva*, K., Sosa-Gonzalez, V. and Corbett, L. (2025) Successes and challenges in developing a program to engage underrepresented college students in environmental science research. *The Journal of Geoscience Education*. 1–17. [10.1080/10899995.2025.2535025](https://doi.org/10.1080/10899995.2025.2535025)

Collins, C., Perdrial, N., Blard, P.-H., Keulen, N., Mahaney, W.C., *Mastro*, H., *Souza*, J., Rizzo, D.M., Marrocchi, Y. and Bierman, P.R. (2025) Characterization of the 1966 Camp Century Sub-Glacial Core: A Multiscale Analysis, Climate of the Past/The Cryosphere inter-journal Special Issue. [10.5194/cp-21-1359-2025](https://doi.org/10.5194/cp-21-1359-2025)

Nørgaard, J., Margold, M., Jansen, J., Szuman-Kalita, I., Kurbanov, R., Andersen, J.L., Pedersen, V.K., Olsen, J., Corbett, L. B., Bierman, P.R., and Knudsen, M.F. (2025) A Late Pleistocene glacial maximum during MIS 3 in the Chersky Mountains, central Northeast Siberia. *Quaternary Research*. [10.1017/qua.2025.20](https://doi.org/10.1017/qua.2025.20)

Halsted, C., Bierman, P., Codilean, A., Corbett, L., and Caffee, M. (2025) Global analysis of in situ cosmogenic $^{26}\text{Al}/^{10}\text{Be}$ ratios in fluvial sediments indicates widespread sediment storage and burial during transport. *Geochronology*. [10.5194/gchron-7-213-2025](https://doi.org/10.5194/gchron-7-213-2025)

Haag, M.B., Schoenbohm, L.M., Jess, S., Bierman, P.R., *Wolpert*, J., Corbert, L., Sommer, C.A. (2025) Erosional dynamics and escarpment retreat at the southern end of the South American passive margin escarpment. *Geomorphology*. [10.1016/j.geomorph.2025.109885](https://doi.org/10.1016/j.geomorph.2025.109885)

Portenga, E. W., Townsend, K.F., Corbett, L.B., Bierman, P.R., Caffee, M., Bogoski, C., *O'Neill*, C. and Skora, S. (2025) ^{10}Be reproducibility in the Santa Monica Mountains, California: A longitudinal study in a scorched and soaked landscape, *Geomorphology*. [10.1016/j.geomorph.2025.109713](https://doi.org/10.1016/j.geomorph.2025.109713)

- Coppersmith, R. T., Slack, C., Cawthra, H., Bierman, P.R., Drebber, J. (2025) Assessing Recency of Faulting in the Stable Continental Region of Western Cape, South Africa, Environmental & Engineering Geoscience. [10.2166/EEG-D-24-00030](https://doi.org/10.2166/EEG-D-24-00030)
- Haag, M., Schoenbohm, L., Wolpert, J., Jess, S., Bierman, P., Corbett, L., Sommer, C. and Endrizzi, G. (2025) Rock strength controls erosion in tectonically dead landscapes, Science Advances. Vol 11, Issue 4, [110.1126/sciadv.adr2610](https://doi.org/10.1126/sciadv.adr2610)
- Bierman, P. R., Christ, A. J., Collins, C. M., Mastro, H. M., Souza, J., Blard, P.-H., Brachfeld, S., Courville, Z. R., Rittenour, T. M., Thomas, E. K., Tison, J.-L., and Fripiat, F. (2024): Scientific history, sampling approach, and physical characterization of the Camp Century sub-glacial sediment core, a rare archive from beneath the Greenland Ice Sheet (Climate of the Past/The Cryosphere inter-journal Special Issue) [10.5194/tc-18-4029-2024](https://doi.org/10.5194/tc-18-4029-2024)
- Tanski, N.M., Rittenour, T.M., Pavano, F., Pazzaglia, F.J., Mills, J., Corbett., L.B., and Bierman, P.R., (2024). Quartz luminescence sensitivity enhanced by residence time in the critical zone. **Quaternary Geochronology.** [10.1016/j.quageo.2024.101613](https://doi.org/10.1016/j.quageo.2024.101613)
- Bergelin, M., Balco, G., Corbett, L., and Bierman, P.R. (2024) Production rate calibration for cosmogenic ^{10}Be in pyroxene by applying a rapid fusion method to ^{10}Be -saturated samples from the Transantarctic Mountains, Antarctica. **Geochronology.** [10.5194/gchron-6-491-2024](https://doi.org/10.5194/gchron-6-491-2024)
- Bierman, P.R, Mastro, H. M., Corbett., L.B.,Steig, E. J., Halsted, C. T. Caffee, M. M., Hidy, A. J., Balco, G., Peteet, D. M., Bennike, O. and Rock, B. (2024) Plants, insects, and fungi under Greenland's ice – evidence of ice-free times, **Proceedings of the National Academy of Science.** [10.1073/pnas.2407465121](https://doi.org/10.1073/pnas.2407465121)
- Bennett. I. and Bierman, P.R. (2024) A century of urban landslides: the legacy and consequences of altering riverbank landscapes, **Quarterly Journal of Engineering Geology and Hydrogeology**, Lyell Society. [10.1144/qjegh2023-032](https://doi.org/10.1144/qjegh2023-032)
- Corbett, A., Bierman, P. R., Caffee, M. W., Hidy, A. J., and Woodruff, T. E. (2024) Quantifying replication through repeated analysis of UVM-A, a liquid reference material for cosmogenic ^{10}Be and ^{26}Al studies. **Quaternary Geochronology.** [10.1016/j.quageo.2024.101498](https://doi.org/10.1016/j.quageo.2024.101498)
- Munroe, J., Laabs, B., Corbett, L., Bierman, P., and Handwerger, A. (2024) Rock Glacier Movement and Debris Transport over Annual to Multi-Millennial Timescales. **JGR Earth Surface.** [10.1029/2023JF007453](https://doi.org/10.1029/2023JF007453)
- Pavano, F., Pazzaglia, F., Rittenour, T., Catalano, S.,m Corbett, L., and Bierman, P. (2024) Integrated uplift, subsidence, erosion, and deposition in a tightly Coupled source to sink system, Pagliara basin, northeastern Sicily, Italy. **Basin Research.** [10.1111/bre.12845](https://doi.org/10.1111/bre.12845)
- Drebber, J., Halsted, C., Corbett, L., Bierman, P., and Caffee, M. (2023) In-situ cosmogenic ^{10}Be dating of Laurentide Ice Sheet retreat from central New England, USA, **Geosciences.** <https://doi.org/10.3390/geosciences13070213>
- Portenga, E. W., Ullman, D. J., Corbett, L. B., Bierman, P. R., and Caffee, M. (2023) Early Holocene ice retreat from Isle Royale in the Laurentian Great Lakes constrained with ^{10}Be exposure-age dating, **Geochronology.** doi.org/10.5194

- Argueta, M.O., Moon, S., Blisniuk, K., Brown, N., Corbett, L., Bierman, P., and Zimmerman, S. R. H. (2023) Examining the influence of disequilibrium landscape on millennial-scale erosion rates in the San Bernardino Mountains, California, USA. **Geological Society of America Bulletin**. [10.1130/B36734.1](https://doi.org/10.1130/B36734.1)
- Dethier, D.P., Leopold, M., Völkel, J., Buylaert, J., Murray, A., Nelson, R., Madole, R. Corbett, L., Bierman, P. and Rosenbaum, J. (2023) Chronology and erosion rate of the Pinedale glaciation, Colorado Front Range (USA), inferred from the sedimentary record of glacial Lake Devlin, **Geological Society of America Bulletin**. [10.1130/B36971.1](https://doi.org/10.1130/B36971.1)
- Schoenemann, S.W., Bryant, M. M., Larson, W.B., Corbett, A., Bierman, P. R. (2023) A cosmogenic ^{10}Be moraine chronology of arid, alpine Late Pleistocene glaciation in the Pioneer Mountains of Montana, USA. **Quaternary Science Reviews** [10.1016/j.quascirev.2023.108283](https://doi.org/10.1016/j.quascirev.2023.108283)
- Halsted, C. T., Bierman, P. R., Shakun, J. D., Davis, P. T., and Corbett, L. B., (2023) A critical re-analysis of constraints on the timing and rate of Laurentide Ice Sheet recession in the northeastern United States, **Journal of Quaternary Science**. [110.1002/jqs.3563](https://doi.org/10.1002/jqs.3563)
- Christ, A.J., Rittenour, T.M., Bierman, P.R., Keisling, B.A., Knutz, P.C., Thomsen, T.B., Keulen, N., Fosdick, J.C., Hemming, S.R., Tison, J-L., Blard, P-H., Steffensen, J.P., Caffee, M.W., Corbett, L.B., Dahl-Jensen, D., Dethier, D.P., Hidy, A.J., Perdrial, N., Peteet, D.M., Schaefer, J.M., Steig, E.J., and Thomas, E.K. (2023). Deglaciation of northwestern Greenland during Marine Isotope Stage 11. **Science**.
- Blard, P.H. and 13 others, (2023) Basal debris of the NEEM ice core, Greenland: a window into sub-ice sheet geology, basal ice processes and ice sheet oscillations. **Journal of Glaciology**. doi.org/10.1017/jog.2022.122
- Brosens, L., Cox, R., Campforts, B., Jacobs, L., Vanacker, V., Bierman, P., Razanamahandry, V. F., Rakotondrazafy, A.F.M., Razafimbelo, T., Rafolisy, T. and Govers, G. (2023) The slow downwearing of Madagascar: inferring patterns and controls on long-term basin-averaged erosion rates from in-situ ^{10}Be using a suite of statistical analyses, **Earth Surface Processes and Landforms**. doi.org/10.1002/esp.5586
- Winkler, S. R., Mbele, V., L., Khosa, R. R., Corbett, L. B., Bierman, P. R., Hidy, A., Brown, T., Makhubela, T. V., Kramers, J., and Tooth, S. (2023) ^{10}Be at iThemba LABS using a silicon nitride membrane stack as absorber for isobar suppression, **Nuclear Inst. and Methods in Physics Research, B** doi.org/10.1016/j.nimb.2023.03.024 10.1016/j.nimb.2023.03.024
- LeBlanc, D. E., Shakun, J. D., Corbett, L. B., Bierman, P. R., Caffee, M. W., and Hidy, A. (2023) Northern Hemisphere ice sheet persistence across Pleistocene interglacials, **Geology**. doi.org/10.1130/G50820.1 Halsted, C., Bierman, P., Shakun, J., Davis, P. T., Corbett, L., Caffee, M., Hodgdon, T., and Licciardi, J. (2022) Rapid southeastern Laurentide Ice Sheet thinning during the last deglaciation revealed by elevation profiles of in-situ cosmogenic ^{10}Be , **GSA Bulletin**. doi.org/10.1130/B36463.1
- Bender, A. M., Lease, R.O., Corbett, L. C., Bierman, P.R., Caffee, M.W., Jones, J.V. and Kreiner, D. (2022) Yukon River incision coupled to CO₂ drawdown

- during late Cenozoic climate changes, **Earth Surface Dynamics**. doi.org/10.5194/esurf-10-1041-2022
- Corbett, L. B., Bierman, P. R., Brown, T. A., Caffee, M. W., Fink, D., Freeman, S., P.H.T., Hidy, A. J., Rood, D. H., Wilcken, K. M., and Woodruff, T. E. (2022) Clean quartz matters: an exploration of the importance of sample purity using the CRONUS-N reference material, **Quaternary Geochronology**. doi.org/10.1016/j.quageo.2022.101403/
- Bergelin*, M., Putkonen, J., Balco, G., Morgan, D., Corbett, L., and Bierman, P. (2022) Cosmogenic nuclide dating of two stacked ice masses: Ong Valley, Antarctica. **Geochronology**. doi.org/10.5194/tc-16-2793-2022
- Mae Kate Campbell* and others, (2022) Cosmogenic nuclide and solute flux data from central Cuban rivers emphasize the importance of both physical and chemical mass loss from tropical landscapes, **Geochronology**. doi.org/10.5194/gchron-4-435-2022
- Corbett, L. B., Bierman, P. R., Semken, S., and Whittaker, J. A. (2022) Community facilities increase laboratory access in geoscience – but we can do better, **Earth and Space Science**. doi.org/10.1029/2021EA002028
- VanLandingham, L., Portenga, E. W., Lefroy, T., Bierman, P. R., and Hidy, A. J. (2022) Comparison of basin-scale in situ and meteoric ^{10}Be erosion and denudation rates across a rainfall, slope, and elevation gradient at George River, northeast Tasmania, Australia, **Geochronology**, 4, 153–176 doi.org/10.5194/gchron-4-153-2022
- Quock, M., Schmidt, A.H., Corbett, L.B., Bierman, P.R., Hidy, A.J., and Caffee, M.W. (2022). Hurricanes alter ^{10}Be concentrations in tropical river sediment but do not change regional erosion rate estimates. **Earth Surface Processes and Landforms**. doi.org/10.1002/esp.5310
- Del Vecchio*, J., DiBiase, R. A., Corbett, L. B., Bierman, P. R., Caffee, M. W. and Ivory, S. J. (2022) Increasing erosion rates following onset of Pleistocene periglaciation at Bear Meadows, Pennsylvania, USA. **Geophysical Research Letters**, Volume 49, Issue 4. doi.org/10.1029/2021GL096739
- A. Hughes*, D. H. Rood, D. E. DeVecchio, A. C. Whittaker, R. E. Bell, K. M. Wilcken, L. B. Corbett, P. R. Bierman, T. K. Rockwell (2022), Tectonic controls on Quaternary landscape evolution in the Ventura basin, southern California, quantified using cosmogenic isotopes and topographic analyses . **Geological Society of America Bulletin**. doi.org/10.1130/B36076.1
- *Christ, A.J. and 16 others, (2021) A multi-million-year-old record of Greenland vegetation and glacial history preserved in sediment beneath 1.4 km of ice at Camp Century, **Proceedings of the National Academy of Sciences**. doi.org/10.1073/pnas.2021442118
- Markewich, H.W., Pavich, M.J., Mahan, S.A., Bierman, P.R., Alemán-González, W.B., and Schultz, A.P., 2021, Synthesis of geochronologic research on Late Pliocene to Holocene emergent shorelines in the lower Savannah River area of southeastern Georgia, USA: U.S. Geological Survey Open-File Report 2021–1015, 48 p.doi.org/10.3133/ofr20211015
- Grande, A., Schmidt, A., Bierman, P., Corbett, L., López-Lloreda, C., Willenbring, J., McDowell, W., and Caffee, M., (2021) Landslides, hurricanes, and sediment

- sourcing impact basin-scale erosion estimates in Luquillo, Puerto Rico, Earth and Planetary Science Letters.
- Bierman, P. (2021) A department terminated, Science, vol. 371, issue 6527 p. 434. doi:10.1126/science.caredit.abg6529
- Diaz, M.A., Corbett, L. B., Bierman, P. R., Adams, B. J., Wall, D. H., Hogg, I. D., Fierer, N. and Lyons, W. B. (2021) Relative terrestrial exposure ages inferred from meteoric 10-Be and NO₃- concentrations in soils along the Shackleton Glacier, Antarctica. Earth Surface Dynamics. doi.org/10.5194/esurf-9-1363-2021
- Halsted, C.T., Bierman, P. R., and Balco, G. (2021) Empirical evidence for latitude and altitude variation in the in situ cosmogenic 26Al/10Be production ratio. Geosciences. doi.org/10.3390/geosciences11100402
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- Bierman, P. & Marler, L. (1988) Ground water and a glacial lake--Williamstown, Massachusetts. **Geological Society of America Abstracts with Programs**, 20(1), 7. (Northeastern)

- Bierman, P. (1986) Mapping Quaternary geology in disturbed areas-the importance of historical sources. **Geological Society of America Abstracts with Programs**, 18(6), 541. (National)
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Invited Presentations

- 2025 Trinity-Pawling School, New York, *When the Ice is Gone and Donald Trump's interest in Greenland*, invited speaker
- 2025 Quimper Geological Society, *Cold War Science and Engineering Today Reveals Greenland's Fragility in an Overheating Climate*, invited speaker
- 2024 COP29 - Baku, International Cryosphere Climate Initiative, *Understanding the History of the Greenland Ice Sheet*, invited speaker
- 2024 GUND EX, University of Vermont, Gund institute for Environment, *Cold War science reveals Greenland's fragility in an overheating climate*, invited speaker
- 2024 Norwich University, Larsen Lecture Series, *The US Military, the Cold War, and Greenland – an Environmental and Engineering History of the World's First Deep Ice Core*, invited speaker
- 2024 Ice Core Analysis Techniques (ICAT) PhD school, *Learning from the materials under the ice - history and science of coring and analysis of subglacial material from Camp Century and GISP2*, invited speaker
- 2024 International Glaciological Society, *New science and old history from beneath Greenland's ice - the power of sampling the bed of an ice sheet*, invited speaker
- 2024 NASA Goddard Institute for Space Studies (NASA GISS) Sea Level Rise seminar series, *New science and old history from beneath Greenland's ice - the power of sampling the bed of an ice sheet to understand past sea-level contributions*, invited speaker
- 2024 Arctic 21 meeting, *When the Ice is Gone from Greenland: evidence from plants, insects, and soil preserved under the ice at Camp Century and GISP2*, invited speaker
- 2024 The Music Hall Lounge, *When the Ice is Gone*, Portsmouth, New Hampshire, Literary in the Lounge Series ,invited speaker
- 2024 Worthen Library, South Hero, Vermont, *Greenland's long arms – an ice core, the Army, and climate change*, invited speaker
- 2023 University of Wisconsin, Weeks Lecture, *An old ice core provides new insights about the fragility of Greenland's Ice Sheet*, invited speaker
- 2023 White House Office of Science and Technology Policy, *Policy implications of MIS 11 deglaciation of Camp Century*, invited speaker
- 2023 Arctic 21 - International Cryosphere Climate Initiative, *MIS 11 deglaciation of Camp Century*, invited speaker
- 2021 AAPG Women's Network webinar, *Evolving Geoscience World: How are academic departments responding?*,invited speaker and panelist; recording at: <https://www.youtube.com/watch?v=5v3ZfdUkTII>

- 2021 Geological Society of America, northeast section, *Termination - what's next for UVM Geology after decades of serving Vermont, New England and the World*, invited speaker and panelist
- 2021 Governor's Institute of Vermont, *Environmental Science in Cuba and Greenland*, invited speaker.
- 2021 US National Science Foundation, Distinguished lecturer, *Teamwork in the Geosciences -- Examples from NSF-supported research in Cuba and the NSF/UVM community cosmogenic facility*. Invited speaker
- 2021 Universidade Federal do Rio de Janeiro, Rio, (Zoom), *Dating and Geomorphology*. Invited speaker and workshop organizer.
- 2020 Baltimore Renaissance Program for elder education (Zoom) *What geologists do in 2020*, Invited speaker
- 2020 University of Vermont (Zoom), *CUBA travel log: learning geology, hydrology, and teamwork on an Island forbidden to Americans*, Invited speaker
- 2019 Williams College, *Travels in Central Cuba: An Environmental View of 26 Tropical Rivers*, Invited speaker
- 2019 Paleoclimate workshop inaugurating Geocentre projects SEALMiCO and ENIGMA, *News from multi-proxy work on Baffin Bay diamict samples*, Invited speaker.
- 2019 Oldest ice Workshop Copenhagen, Niels Bohr Institute, Copenhagen ^{10}Be in and on ice and icebound sediment, Invited speaker.
- 2018 Magellan Plus Workshop Copenhagen, Geological Survey of Denmark and Greenland (GEUS), *Application of cosmogenic isotopes to interpret long-term weathering history*, Invited Keynote Speaker.
- 2018 Wolman Geomorphology Club (UMBC), *Twenty years of looking at the Appalachians through the lens of cosmogenic nuclides*, Invited Keynote speaker
- 2018 Rutland Osher Lifelong Learning Institute (OLLI), *Landscape change and the coming of the Interstate Highway System*. Invited speaker.
- 2017 PALSEA meeting, *Implications for sea level change over thousands to millions of years – tracing Greenland's ice using cosmogenic nuclides*. Invited speaker.
- 2017 AMS-14 meeting, *Deciphering the history of Greenlandic Climate over millions of years using cosmogenic nuclides*. Invited speaker.
- 2017 Geological Society of American annual meeting, Seattle. *Counting atoms to place human impacts in a geologic context*. Invited speaker, Pardee Session.
- 2017 Greenland Ice Sheet stability NSF workshop, Buffalo NY. *Deciphering the history and processes of Greenland's Ice Sheet(s) over thousands to millions of years using cosmogenic nuclides*. Keynote speaker.
- 2015 Geological Society of American annual meeting, Baltimore. *Mapping erosion of the Appalachian Mountains using cosmogenic ^{10}Be* . Keynote speaker, Pardee Symposium on Appalachian Geomorphology.
- 2015 Geological Society of American annual meeting, Baltimore. *Using ^{10}Be to decipher the incision history of the Potomac River near Great Falls*. Invited speaker, theme session in honor of Milan Pavich.

- 2014 American Geophysical Union meeting. *Cosmogenic Isotopic Tracing of Sediment Generated By the Greenland Ice Sheet*. Invited speaker.
- 2014 Nordic Workshop on Cosmogenic Nuclide Dating. Aarhus, Denmark, ^{10}Be Remote Sensing of Greenland Ice Sheet (erosion) history. Keynote speaker.
- 2014 Geological Society of American annual meeting, Vancouver. *Cosmogenic ^{10}Be analysis of debris flow boulders and sediment from Brazil indicates long return times*. Invited speaker.
- 2014 Williams College, Sperry Lecturer. *Erosion in the Ice Box - a Tale Told by Rare Isotopes in Greenland Ice Sheet Sediment*. Invited speaker
- 2014 Williams-Mystic, Annual Reunion, Alumni Speaker. *Adventures of a Greenland geologist, on and offshore*. Invited speaker
- 2014 AMS-13, Multinuclide workshop, Aix, France. *Multi-isotope analysis of Greenland outcrops and sediment indicates erosion and exposure history of the Greenland Ice Sheet*. Invited speaker
- 2013 Addison Historical Society, Addison, Vermont, *The Landscape Change Program - 70,000+ historic images of our state*. Invited speaker
- 2013 Pardee session, Geological Society of American annual meeting, Denver. *Quaternary cosmogenic geochronology - rates and dates - past, present, and future*. Invited speaker
- 2013 NSF-sponsored Workshop on Geomorphic Prediction of Landscape Response to Climate and Land Use Change in Tucson, AZ. *Rates of landscape change: erosion vs sediment yield*. Invited speaker.
- 2013 Scottish University Environmental Research Center, East Kilbride, Scotland, *Using ^{10}Be to understand more about Greenland Ice Sheet dynamics*, Invited speaker
- 2013 First Wednesday speaker, Vermont Humanities Council, St Johnsbury Antheneum. *Remaking the Landscape, 1958-1978: The Interstate Highways Come to Vermont*. Invited speaker
- 2012 Osher Lifelong Learning Institute, St. Albans, *Remaking the Landscape, 1958-1978: The Interstate Highways Come to Vermont*. Invited speaker
- 2012 Elder Education Enrichment, South Burlington, *Remaking the Landscape, 1958-1978: The Interstate Highways Come to Vermont*. Invited speaker
- 2012 American Geophysical Union meeting, *High-precision, high-resolution, post-glacial emergence curves for southern Greenland generated with in situ cosmogenic ^{10}Be* . Keynote, invited speaker.
- 2012 Thetford Historical Society Annual meeting, keynote. *Remaking the Landscape, 1958-1978: The Interstate Highways Come to Vermont*. Invited speaker
- 2012 International Geology Conference, Brisbane Australia, *^{10}Be , a powerful tool for quantifying present and ancient rates of Earth-surface processes*, Keynote speaker,
- 2012 Proponent Expert, Thyspunt SSHAC Level 2 Workshop, Cape Town South Africa, *Cosmogenic geochronology investigations for uplift rates and ages of surfaces*:

- Implications for the tectonic stability and geomorphic evolution of Southern Africa.*
 Invited speaker
- 2011 First Wednesday speaker, Vermont Humanities Council Essex Public library.
Remaking the Landscape, 1958-1978: The Interstate Highways Come to Vermont.
 Invited speaker
- 2011 Federal University of Brazil, Rio campus. Invited lecture. *The Use of Cosmogenic Isotopes to Assess Long-Term Erosion Rates and a Few Dates.* Invited speaker
- 2010, Brazilian National Geomorphology Symposium, *The use of cosmogenic isotopes to assess long-term erosion rate,* Keynote speaker.
- 2010, Geological Society of London, Landscapes to Rock, *Three decades tracing erosion and sediment with cosmogenic nuclides - where do we go next?*
 Invited speaker.
- 2010, Namibian Geological Survey, *New isotopic methods show the old Namibian landscape is slowly eroding*
- 2009, Australian National Science and Technology Organization, *Using Cosmogenic Isotopes to Study Landscape Change; what we know and can learn about the Australian Continent*
- 2009, Bentley College, *New Geomorphic Insights from Cosmogenic Isotopes*, The William Morris Davis Lecture.
- 2009, European Geological Society Annual Meeting, *New ways of using an old isotopic system – meteoric ^{10}Be is back and ready to do geomorphology,* Invited Speaker
- 2008, Fine sediment and the Chesapeake Bay Watershed, Maryland Department of Natural Resources, *Rates of Making and Moving Sediment in the Appalachians, the Power of Isotopic Analyses.*
- 2008, Macquarie University (Australia), *Eroding and Incising an Ancient Mountain Range, the Appalachians of Eastern North America.*
- 2008, Weybridge Farmers club, *Traveling Back in Time: Vermont's Changing Landscape*
- 2008, North Branch Nature Center, Naturalist Journeys Lecture, *Traveling Back in Time: Vermont's Changing Landscape*
- 2008, University of Washington, Department Earth and Space Sciences, *Eroding and Incising the Appalachian Mountains.*
- 2008, University of Glasgow, Department of Geographical and Earth Sciences, *Eroding the Appalachians, a North American view through a ^{10}Be lens.*
- 2008, University of Vermont, Mastering the Maze, *Images of UVM and Vermont through Time*
- 2008, Keynote Talk, Governor's Institute, Climate Change Winter Weekend, *What's Climate change mean to Vermont?*
- 2008, Invited Presentation and Panel Member, Lake Champlain Research Conference, *The Watershed and Inputs*

- 2007, 13th Annual New England Conference on Gifted and Talented Education,
Global climate change – Newly developed program lets exceptional high school students gain their voice,
- 2007, University of New Mexico, *Using 10-Be to establish background rates of sediment generation and transport.*
- 2007, Elder Education Enrichment, *The Landscape Change Program: Imaging the Place that was and is Vermont*
- 2007, Pennsylvania State University, *Using 10-Be to understand how the Appalachians are eroding over time and space*
- 2007, University of Tasmania, *13,000 years of landscape change in northern New England imaged through mud, sand and historic images.*
- 2007, University of Tasmania, *Using 10-Be to understand how ancient mountainous landscapes erode over time and space.*
- 2007, Colby College, *Measuring Appalachian Erosion - looking back in time through various lenses*
- 2007, UVM RSENR AWES, *What atom counting tells us about background rates of sediment generation and transport*
- 2007, Fleming Museum Lunch Series, *Images of a Vanished Landscape, Imagining what was Burlington and Winooski*
- 2007, University of Vermont, Mastering the Maze, *Images of UVM and Vermont through Time*
- 2007, Vermont Science Teachers Association, Pathways to Standards Conference, *Using images to visualize environmental change over time*
- 2006, Vermont Humanities Council, annual fall conference, keynote lecture, *Imaging and Imagining the Place that was and is Vermont*
- 2006, Geological Society of American, Pardee invited lecture, *Erosion in an old decaying mountain range – the Appalachians*
- 2006, CCTV Burlington, Preservation Burlington, *The landscape change program, 30 minute live interview*
- 2006, Johns Hopkins University, *Using 10-Be to establish background rates of sediment generation and transport.*
- 2006, Yale University, *A cosmogenic look at erosion of the North American passive margin*
- 2006, Keynote talk Goldschmidt Conference, Melbourne, *More than Rates or Dates: the Power of Amalgamation when Tracing Landscape-scale Processes with 10-Be*
- 2006, Barre Lions Club, , *The Landscape Change Program*
- 2006, University of Vermont, Mastering the Maze, *Vermont Time Machine*
- 2006, *Switchboard*, Vermont Public Radio, February 23
- 2005, Williston Historical Society, *The Landscape Change Program*

- 2005, Pittsford Public Library Society, *The Landscape Change Program*
- 2005, Computer Science Department, University of Vermont, *A programming challenge, getting the UVM Landscape Change Program off the dirt road and onto the information superhighway*
- 2005, Greensboro Historical Society, *The Landscape Change Program*
- 2005, National Science Foundation, for GEO directorate, *Floods, Erosion, Dirt and 10,000 Old Pictures...a dozen years of integrating research and teaching with NSF support*
- 2005, National Science Foundation, Review of Distinguished Teaching Scholar Award for Director of NSF and Program Managers, *Landscape Imagery -- a catalyst for formal and informal science education*
- 2005, Massachusetts Institute of Technology, *A 10-Be look at erosion of the North American passive margin*
- 2005, University of Vermont, Mastering the Maze, *Vermont Time Machine*.
- 2005, Vermont Computer Mapping Expo, *The Landscape Change Program*
- 2005, Waterways Experiment Station, US Army Corps of Engineers, *Using ¹⁰Be to Understand How Fast Sediment is Generated and How Fast it Moves*
- 2005, Williams College, Environmental Studies Program, *Using 10,000 old pictures of Vermont to look back at two centuries of environmental change and inform current decisions*
- 2004, Pardee Symposium, Geological Society of America, *Oh where, oh where did the sediment go: two decades of tracking desert sand from source to sink with 10-Be*
- 2004, Shelburne Farms docent training lecture, *Using the landscape change archive*
- 2004, Vermont-National Education Association Convention, Professional Development Workshop, *200 Years of Vermont Landscape History*.
- 2004, Echo Center first anniversary meeting, *Teaming between Echo and UVM Geology*.
- 2004, Chittenden County Regional Planning Commission, *Urbanization And Water Quality in Burlington, Vermont*
- 2004, Burlington Gem and Mineral Club, *15,000 years of New England Landscape History*
- 2004, Echo Center volunteers training, *The landscape change program, a digital community image archive.*
- 2004, Preservation Burlington, *Burlington's Disappearing Greenspace*
- 2004, US ARO, Arid regions Land use conference, *Use of 10-Be for determining land use change, Colorado Springs*
- 2004, NSF Visualization workshop, Carleton College, *Visualizing 150 years of landscape change with a web-based, community image archive with poster of same title.*

- 2004, Skidmore College, *15,000 years of New England Landscape History*
- 2004, Greensboro Historical Society, *The landscape change program, a digital community image archive.*
- 2003, Franklin and Marshall College, *15,000 years of New England Landscape History - from glaciers to clear-cuts and mega-storms*
- 2004, Shelburne Farms docent training lecture, *The landscape history of Oakledge Park*
- 2002, Conservation Biology Seminar, *Saving urban greenspace*
- 2002, Burlington City Council, *Severe un permitted loss of urban green space*
- 2002, Purdue University, *Unraveling Appalachian erosion, incision and deposition history using ^{10}Be .*
- 2002, Neighborhood Planning Association, Ward 6, Burlington, *Green space loss in Burlington*
- 2002, Goldschmidt Geochemistry Conference, Davos, Switzerland, *Tracking landscape scale sediment generation and transport using ^{10}Be and ^{26}Al .*
- 2002, University of Vermont Environmental Council, *Uncontrolled Green space loss, its Causes and Effects*
- 2002, Burlington City Planning Commission, *Urban Hydrology and Land Use Change Over Time in Burlington*
- 2002, University of Vermont, Center for Research on Vermont, *Disappearing Burlington lawns: students, cars, and land use change,*
- 2001, University of Massachusetts at Amherst, Department of Geology, *Old surfaces on New England summits imply thin Laurentide ice*
- 2000, Boston University, Department of Geology, *Old surfaces on New England summits imply thin Laurentide ice*
- 2000, University of Vermont, Department of Plant and Soil Science, *Big storm and clear cutting in Vermont*
- 2000, United States Geological Survey, Reston, *Cosmogenic Isotopes as Erosion Monitors*
- 2000, Geological Society of Washington, *The Aging of Great Escarpments - Cosmic Rays and Geomorphology*
- 2000, Williams College, *Clear cuts and big storms -- landscape history in Vermont*
- 1999, Hebrew University and Israeli Nuclear Power Authority, *Cosmogenic Isotope Short Course*
- 1999, University of Vermont, Department of Chemistry, *What UVM geologists do with ^{10}Be and ^{26}Al*
- 1999, University of Vermont, College of Engineering, *10,000 years of big storms and 200 years of clear-cutting.*
- 1999, University of Vermont, School of Natural Resources, *Clear cuts and big storms -- landscape history in Vermont*

- 1999, Middlebury College, *Dirt and water, a record of big storms in the Holocene of New England?*
- 1999, Bryn Mawr College, *Clear cuts and big storms -- landscape history in Vermont*
- 1999, Brown University, *Cosmogenic Clear cuts and big storms -- landscape history in Vermont*
- 1999, University of New Hampshire, *Dirt and water, a record of big storms in the Holocene of New England?*
- 1999, National Science Foundation, *Dirt and Water, 10,000 Years of New England Storms*
- 1998, University of Michigan and Dartmouth University, *10,000 Years of New England Landscape History, 200 years of human Impact: Process and Products*
- 1998, University of Michigan and Dartmouth University, *Rates and Dates of Surface Processes -- a View through the Cosmogenic Window*
- 1998, Hampshire College, *10,000 Years of Climate Change and Human Impact on New England Landscapes*
- 1997, Harvard University, *Cosmogenic Geomorphology*
- 1997, Dartmouth University, *Cosmogenic Geomorphology*
- 1997, Indiana University/Purdue University *Cosmogenic Geomorphology*
- 1997, Hebrew University, Jerusalem, *Cosmogenic Geomorphology, Dates and Erosion Rates*
- 1997, Cornell University, *Rates and Timing of Geomorphic Processes*
- 1997, UCLA, *Faults, Fans, and the Weathering Function*
- 1996, US Army Research Office, Construction Engineering Research Laboratory, *Estimating Long-term erosion rates*
- 1996, United States geological Survey, Reston, *Uses of Cosmogenic Nuclides in Earth Science*
- 1996, Duke University, *Alluvial fans - East, West, Up, Down*
- 1996, SUNY Albany, *Cosmic Rays and Alluvial Fans - Tectonic and Landscape Implications For California and Vermont*
- 1996, University of Wisconsin, Madison, *Geomorphic Application of Cosmogenic Nuclides*
- 1996, Los Alamos National Laboratory, *10-Be and 26-Al Production Rates*
- 1995, Geological Society of America National Meeting, *Silicate Weathering Symposium*
- 1995, SUNY Binghamton, *Rates of Earth Surface Change*
- 1995, Williams College, *Rates of Earth Surface Change*
- 1994, University of Massachusetts, *Cosmogenic Answers to Questions of Continental Denudation*
- 1994, University of Vermont, Short course, *Geomorphic Applications of Cosmogenic Isotopes*
- 1993, Australian National University, *^{36}Cl and Rates of Granite Erosion*
- 1992, Chapman Conference, *Tectonics and Topography*
- 1991, Western Washington University, Seminar Series, *Surface Exposure Dating Methods*

1990, Penrose Conference, *Methods of Surface Exposure Dating*