

Curriculum Vitae

LISA KATHARINE BARLOW

The Baker Residential Academic Program in Natural Sciences and the Environment
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Education

- Ph.D. Geological Sciences, 1994, Department of Geological Sciences and Institute of Arctic and Alpine Research, (INSTAAR) University of Colorado, Boulder, CO
Dissertation: Evaluation of seasonal to decadal scale deuterium and deuterium excess signals, GISP2 ice core, Summit camp, central Greenland, A.D. 1270-1985.
- M.S. Geology, 1985, Department of Geological Sciences, University of Colorado, Boulder, CO
Thesis: Event stratigraphy, paleoenvironments, and petroleum source rock potential of the lower Niobrara Formation (Cretaceous), northern Front Range, Colorado.
- A.B. cum laude, with Highest Honors in Geology, May 1980, Smith College, Northampton, MA
Honors Thesis: A gravity investigation of the Western Border of the Connecticut Valley from Montgomery to Hatfield, Massachusetts.

Employment History

- 2001-present Senior Instructor, Baker Residential Academic Program and (to 2005) Department of Geological Sciences, University of Colorado
- 2009-present Affiliate, Environmental Studies Program, University of Colorado
- 2005-2009 Senior Instructor Adjoint, Environmental Studies Program, University of Colorado
- 1994-2001 Instructor, Baker Residential Academic Program and Department of Geological Sciences, University of Colorado
- 1994-2000 Research Scientist I, INSTAAR, University of Colorado
- 1990-1993 Graduate Teaching Assistant, Department of Geological Sciences, University of Colorado
- 1989-1994 Graduate Research Assistant, Light Stable Isotope Laboratory INSTAAR, University of Colorado
- 1987-1988 Independent Consultant, Boulder County
- 1985-1987 Associate Geologist, Conoco Inc., Lakewood, CO
- 1985 Student Geologist, Enserch Exploration Inc., Denver, CO
- 1984 Field Supervisor (litho- and biostratigraphy), Amoco Production Company and University of Colorado
- 1983-1984 Graduate Research Assistant, High resolution litho- and biostratigraphy, Dept. of Geological Sciences, University of Colorado
- 1983 Geologist (summer hire), Amoco Production Company, Denver, CO
- 1980-1983 Geologist, American Stratigraphic Company, Denver, CO

Awards, Honors, and Grants

- 2018 CU Top Scholars Faculty Recognition for Mentoring
- 2015 Sustainable CU Grant Award with Dr. David Cook, Jamal Albaiz and Elizabeth Tandler
- 2014 Boulder Faculty Assembly Faculty Recognition Award
- 2010 Boulder Faculty Assembly Award for Excellence in Service
- 2008 Dean's Fund for Excellence Award, University of Colorado
- 2005 Green Faculty Award, University of Colorado
- 2000 Department of Housing and National Residence Hall Honorary Award for Excellence in Teaching
- 1998 Department of Housing and National Residence Hall Honorary Award for Excellence in Teaching
- 1994 Graduate Teacher Certification Award, University of Colorado
- 1991 Doctoral Fellowship, University of Colorado
- 1984 Terry Brown Memorial Scholarship, University of Colorado
- 1980 Sigma Xi

Publications (peer reviewed)

- Barlow, L.K., 2013 Exploring Sustainability Through On-Campus Consulting (invited). *in* Boring, Wendy and Forbes, William, eds., Teaching Sustainability: Perspectives From the Humanities and Social Sciences. Stephen F. Austin State University Press, Nacogdoches, TX. p. 234-241.
- Barlow, L.K., 2010, Teaching Sustainability as a Living Practice: A Place-Based Course of Intellect, Heart, and Behavior (invited). *in* Homestead, William, ed., Educating for Ecological Sustainability in the Sciences and Humanities. Ometeca, v. 14-15. 124-137.
- Ogilvie, A.E.J., Barlow, L.K., and Jennings, A.E., 2000, North Atlantic Climate c. A.D. 1000: Millennial reflections on the Viking discoveries of Iceland, Greenland, and North America. *Weather*, v. 55(2) p. 34-45.
- Barlow, L.K., Sadler, J.P., Ogilvie, A.E.J., Buckland, P.C., Amorosi, T., Dugmore, A.J., Ingimundarsson, J.H., Skidmore, P., Dugmore, A.J., and McGovern, T.H., 1997, Interdisciplinary investigations of the end of the Norse Western Settlement in Greenland. *Holocene*, v. 7 no. 4 p. 489-499.
- Barlow, L.K., Rogers, J.C., Serreze, M.C., and Barry, R.G., 1997, Aspects of climate dynamics and variability in the North Atlantic Sector: discussion and relation to the GISP2 isotopic signal. *Journ. Geophys. Research*, v. 102 no. C12 p. 26,333-26,344.
- White, J.W.C., Barlow, L.K., Fisher, D., Grootes, P., Jouzel, J., Johnsen, S.J., Stuiver, M. and Clausen, H., 1977, The climate signal in the stable isotopes of snow from Summit, Greenland: results of comparisons with modern climate observations. *Journ. Geophys. Research*, v. 102 no. C12 p. 26,425-26,439.
- White, D.E., White, J.W.C., Steig, E.J., and Barlow, L.K., 1997, Reconstructing annual and seasonal climatic responses from volcanic events since A.D. 1270 as recorded in the deuterium signal from the Greenland Ice Sheet Project 2 ice core. *Journ. Geophys. Research*, v. 102 no. D16 p. 19,683-19,694.
- Buckland, P.C., Amorosi, T., Barlow, L.K., Dugmore, A.J., Mayewski, P.A., McGovern, T.H., Ogilvie, A.E.J., Sadler, J.P., and Skidmore, P., 1996, Bioarchaeological and

- climatological evidence for the fate of Norse farmers in medieval Greenland. *Antiquity*, v. 70 no. 267 p. 88-96.
- White, J.W.C., Gorodetzky, D., Cook, E.R., and Barlow, L.K., 1996, Frequency analysis of an annually resolved, 700 year paleoclimate record from the GISP2 ice core. *in* Jones, P.D., Bradley, R.S., and Jouzel, J., eds., *Climatic variations and forcing mechanisms in the last 2000 years*. NATO ASO Series v. 141, Springer-Verlag, Heidelberg, p. 193-212.
- Barlow, L.K., White, J.W.C., Barry, R.G., Rogers, J. C., and Grootes, P.M., 1993, The North Atlantic Oscillation signature in deuterium and deuterium excess signals in the Greenland Ice Sheet Project 2 ice core, 1840-1970. *Geophysical Research Letters*, v. 20 p. 2901-2904.
- Taylor, K.C., Lamorey, G.W., Doyle, G.A., Alley, R.B., Grootes, P.M., Mayewski, P.A., White, J.W.C., and Barlow, L.K., 1993, The 'flickering switch' of late Pleistocene climate change. *Nature*, v. 361 p. 432-436.
- Barlow, L. K., 1986, An integrated geochemical and paleoecological approach to petroleum source rock evaluation, lower Niobrara Formation (Cretaceous), Lyons, Colorado. *The Mountain Geologist*, v. 23 no. 4 p. 107-112.
- Barlow, L. K. and Kauffman, E. G., 1985, Depositional cycles in the Niobrara Formation, Colorado Front Range, in Pratt, L. M., Kauffman, E. G., and Zelt, F. B., eds., *Fine-grained deposits and biofacies of the Cretaceous Western Interior Seaway - evidence of cyclic sedimentary processes: Society of Economic Paleontologists and Mineralogists midyear meeting Field Trip Guidebook no. 4* p.199-208.
- Barlow, L. K., and Pratt, L. M., 1985, Isotopic and sedimentological study of the lower Niobrara Formation, Lyons, Colorado, in Pratt, L. M., Kauffman, E. G., and Zelt, F. B., eds., *Fine-grained deposits and biofacies of the Cretaceous Western Interior Seaway -evidence of cyclic sedimentary processes: Society of Economic Paleontologists and Mineralogists, mid-year meeting Field Trip Guidebook no. 4* p. 209-214.

Abstracts (peer reviewed)

- Barlow, L.K., 2010, Creating a Sustainable Future: Mind Heart, Behavioral Change, Resilience. Association for the Advancement of Sustainability in Higher Education National Conference: Campus Initiatives to Catalyze a Just and Sustainable World, Denver, CO, Oct. 10-12. <http://conf2010.aashe.org/session-search> (PAP3490)
- Barlow, L.K., 2008, 600,000 Plastic Bags/Year, No More! Leveraging the Classroom Experience for On-Campus Sustainability Initiatives. Association for the Advancement of Sustainability in Higher Education National Conference: Working Together for Sustainability – On Campus and Beyond, Raleigh, North Carolina, Nov. 9-11, p. 41 <http://www2.aashe.org/conf2008/abstracts.php> (p.1 in on-line abstracts)
- Barlow, L.K., 2006, Walking Our Talk: On-Campus Environmental Service Learning. Association for the Advancement of Sustainability in Higher Education National Conference, Arizona State University, Tempe, AZ, Oct. 4-6, 2006, p. 11.
- Barlow, L.K., and Jennings, A.E., 1998, What can Greenland proxy records tell us about the climate of the North Atlantic experienced by Norse settlers ca. 800-1400? The 28th International Arctic Workshop program with abstracts, p 26.

- Steig, E. and Barlow, L.K., 1998, High resolution proxy climate data from ice cores – An overview (invited). The Second International Climate and History Conference, Climatic Research Unit, University of East Anglia, Norwich, United Kingdom. Program with Abstracts, p. 29.
- Barlow, L.K., 1997, Introductory Geology and Introductory Earth System Science Laboratory Skills, Geological Society of America annual meeting programs with abstracts v. 29 no. 6 p. A181.
- Barlow, L.K., 1997, The 'Little Ice Age' time period in central Greenland ice cores: variability is the key. Climatic and Environmental History of Northern Europe and the North Atlantic Region over the past 1000 years, North European Group of Historical Climatology, Verdustofa Islands, Reykjavik, Iceland, p.5.
- Nolin, A., Steffen, K., White, J.W.C., and Barlow, L.K., 1996, Detecting oscillations in the recent climate record of the Greenland Ice Sheet, EOS, Transactions of the American Geophysical Union, v. 77 no. 46 p.428.
- Barlow, L.K., White, J.W.C., Johnson, S., Jouzel, J., and Grootes, P.M., 1993, Climate variability during the last 1000 years from delta Deuterium and delta 18O in the GISP2 and GRIP deep ice cores. EOS, Transactions, of the American Geophysical Union Fall meeting supplement, p.118.
- Barlow, L.K., White, J.W.C., Overpeck, J.T., and Barry, R.G., 1993, Evaluation of deuterium signals from the GISP2 ice core with Greenland temperature records: Groundwork for high-resolution interpretation for the last 1000 years. EOS, Transactions, American Geophysical Union Spring meeting supplement, p.93.
- Meese, D.A., Gow, A.J., Alley, R.B., Barlow, L.K., Grootes, P.M., Mayewski, P.M., Ram, M., Taylor, K.C., White, J.W.C., Waddington, E.D., and Zielinski, G., 1993, The climate of the last 1000 years as seen in the GISP2 ice core. EOS, Transactions, American Geophysical Union Fall meeting supplement, p.103.
- Barlow, L.K., and Pratt, L.M., 1985, Integrated geochemical and paleoecological approach to petroleum source rock evaluation, Cretaceous Niobrara Formation, Lyons, Colorado. American Association of Petroleum Geologists Bulletin, v. 69 no.5 p.842.
- Burger, H.R., Barlow, L.K., Negrini, R.M., and Upton, E.G., 1980, A gravity investigation of the Connecticut Valley, Massachusetts. Geological Society of America Abstracts with Programs, v. 12 no.7 p.395.

Talks

- Barlow, L.K., Sustainable Solutions Consulting Opportunity: The Dilemma of Non-recyclable Conference Posters. University of Colorado Sustainability Summit, April 18, 2019
- Barlow, L.K., Teaching the Science of Climate Change to 18-year-olds: Reflections and Strategies. Anthropocene Resonance Symposium: Interdisciplinary Approaches, University of Colorado Art Museum, Feb. 8, 2019.
https://calendar.colorado.edu/event/anthropocene_resonance_interdisciplinary_approaches#.XOM2v6RMFPY
- Barlow, L.K., Driving Forward: Strategies for Petroleum Reduction in the CU Boulder Campus Fleet. 17th Semi-Annual Sustainability Roundtable, University of Colorado at Boulder, May 2, 2012.

- Barlow, L.K., Top 5 Reasons to Use Your Stainless Steel Water Bottle. Invited speaker at Williams Village North Residence Hall water bottle give-away sponsored by Residence Life University of Colorado at Boulder, Feb. 7, 2012.
- Barlow, L.K., Program in Writing and Rhetoric Sustainability Training: 5 Points to Keep in Mind About Teaching Sustainability. (invited) CU Boulder, March 11, 2011.
- Barlow, L.K., Top 5 Reasons to Use Your Stainless Steel Water Bottle. invited speaker at Baker Residence Hall water bottle give-away and triple filtered water station inaugural celebration, March 19, 2010.
- Barlow, L.K., Students Help CU Walk The Talk: On-Campus Service Learning For A More Sustainable Future, Workshop on Sustainability Research and Teaching, University of Colorado, Jan. 29, 2010.
- Barlow, L.K., Baker RAP activities – Update. Campus Sustainability Roundtable, University of Colorado at Boulder, Dec. 3, 2009.
- Barlow, L.K., Baker RAP initiatives-Update. Campus Sustainability Roundtable, University of Colorado at Boulder, April 17, 2009.
- Barlow, L.K., Creating a Sustainable Future: an Introductory Course in Theory and Practice. Rocky Mountain Sustainability Summit: Forging Solutions at Colleges and Universities. University of Colorado at Boulder, Feb. 11-13, 2009.
- Barlow, L.K., 5000 Worldviews, 9 months: Sustainability in Residential Life at CU Boulder, Rocky Mountain Sustainability Summit: Forging Solutions at Colleges and Universities, University of Colorado at Boulder, Feb. 22-23, 2007
- Barlow, L.K., Fostering a Culture of Sustainability: Recycling in the Residence Halls. speaker and panelist, Sustainable Living and Learning Session, Colorado Sustainability Summit, Boulder, CO February, 2005
- Barlow, L.K., ENV5 3001, an Environmental Service Learning Course at the University of Colorado at Boulder. speaker and panelist, Applied Academics session, Colorado Sustainability Summit, Boulder, CO April, 2003
- Barlow, L.K., Geoscience Education: What's going on? Dept. of Geological Sciences colloquium, University of Colorado at Boulder, February 1998.
- Ogilvie, A.E.J., Barlow, L.K., Jennings, A.E., Andrews, J.T., Doner, L. and Briffa, K., The North Atlantic Region AD 800 to 1400: A Multi-Proxy Climate Perspective. The North Atlantic and North-west Russia AD 800-1400, Tromso Arctic Archaeology Seminar, Tromso, Norway, September 1997.
- Ogilvie, A.E.J., Barlow, L.K., Jennings, A.E., Andrews, J.T., Jonsson, T., Demaree, G., Jonsson, P. and Nordli, O., Climate changes in the Atlantic Arctic in the past 500 years. North Atlantic Biocultural Organization, Cabot 500 Summit of the Sea Conference. St. Johns Newfoundland, September 1997.
- Barlow, L.K., Buckland, P., Ogilvie, A., Skidmore, P., and McGovern, T., Till death take us or the world end: final days of the Norse Western Settlement in Greenland, Canadian Archaeological Association, Halifax, Nova Scotia, March 1996 (invited).
- Barlow, L.K., Buckland, P., Ogilvie, A., Skidmore, P., and McGovern, T., Climate change and cultural vulnerability in Norse Greenland. Scientific Commission for Greenland, Copenhagen, March 1996 (invited).
- Barlow, L.K., Barry, R.G., Rogers, J.C., Serreze, M.C., and White, J.W.C. Aspects of climate dynamics and variability in the North Atlantic Sector: discussion and relation

- to the GISP2 high resolution deuterium signal. GISP2/GRIP Joint workshop, Wolfboro, New Hampshire, GISP2 Science Management Office, September 1995.
- Barlow, L.K., Synoptic Paleoclimatology. Atlantic Paleoclimates in Arctic Lakes and Estuaries (PALE) meeting, Boulder, CO, October 1995 (invited).
- Barlow, L.K., Joint HARC/GISP2/PALE research: an Example, Human Dimensions of the Arctic System Workshop, Arctic Research Consortium of the United States, Inc.(ARCUS), Tucson, Arizona, October 1995 (invited).

Service Learning Field Reports

Service Learning Field Reports produced at the request of Campus Operations Departments. 2015 Report is from RSEI 4150, Energy Policy Project. Prior reports are from ENVS 3001, Sustainable Solutions Consulting. In all cases, projects are negotiated, managed, and reports edited by L. K. Barlow. Website is currently under construction at <https://sites.google.com/view/sustainablesolutionsconsulting/home>

- Barlow, L.K. (ed), Rowinski, C., Toland O., Slade, J., Whiddon, J., Peacock, E., Albaiz, J., Glade, K., Smith, A., Legg, D. Ellsworth, P., Gidday, L., Haley, R., Ron , I., Tandler, E., Walker, M., Block, S., and Gustin, M., 2015, Sustainably Accelerating the Future: Strategies and Innovations for Reducing Volumetric Petroleum Usage at the University of Colorado, Boulder. 122pp.
- Barlow, L.K. (ed), Pohutsky, M., Ribarich, M., Zeller, P., Wachter, B., Burke, C., Creighton, A., Guido, A., Hamilton, C, Licata, T, O'Neill, O., Plett, M., Schmitz, M., Thayer, T., Warren, S., Weathers, W., Whitehead A., and Barlow, L., 2013, Fine Dining, Zero Waste: Evaluation and Recommendations for Achieving CUSG Zero Waste Goals at the Alferd Packer Restaurant and Grill, University of Colorado at Boulder. 166pp.
- Barlow, L.K.(ed), Draganovic, A., Fife, J., Gallagher, K., Graves, V., Godfrey, A., Gompertz, M., Hassler, L., Jobe, A., Lawrence, K., McLaughlin, N, and Wharry, J., 2012, Driving Forward: Strategies for Petroleum Reduction in the Boulder Campus Fleet. 128pp.
- Barlow, L.K., Nelson, J., Mason, B., Hayes, T., Ballew, S., Barry, S., Boeken, D., Bopp, K., Carney, L., Horn, R., Hopkins, G., McCaulley, C, Nagata, S., and Wyatt, T., 2011, Printers, Printing, and Print Behavior: Status, Implications, and Recommendations for the University of Colorado at Boulder. 125pp with Appendix.
- Harmon, Z., McManus, J., and Turzian, A., 2011, Defining Natural Foods for the University of Colorado at Boulder Dining Services. Barlow, L.K., project manager and editor, 32pp with Appendix of Food Additives.
- Doelder, K., Eisenberg, E, Gordon, C, Hill, J., and Zwiefel, Z., 2011, Eco2go! A Pilot Study for Reusable To-Go Containers at Dining Service's Grab-n-Go Venues at the University of Colorado at Boulder. 47pp.
- Kapadia, Elan, and Koppel, Jeff, 2010, Computers Need Sleep Too: Energy Conservation in CU Student Computing Labs. 12pp, with Spreadsheet Appendix.
- Braude, Ariel, Chow, Pauline, Cooper, Robert, Ptok, Fabian, and Schultz, David, 2010, Food for Thought: A Dinner Highlighting Sustainable Dining for 6000 Meal Plan Students at the University of Colorado at Boulder. 44pp.

- Boatwright, Madeline, Leonard, Sara, McDanel, Maura, Raleigh, Keegan, Wright, Elizabeth, and Barlow, Lisa, 2010, Redefining Sustainable Solutions for Grab-n-Go Packaging at the University of Colorado, Boulder. 33pp.
- Vogel, Kelan, Platt, Laura, and Rand, Austin, 2010, Engaging Incoming and Prospective Students: Web-based Campus Sustainability Outreach at the University of Colorado, Boulder. 51 pp.
- Franklin, Karmen, and Madalinski, Mikaela, 2009, Reducing Bottled Water Use in Dining Services at the University of Colorado at Boulder. 37pp.
- Perse, Jamie, Scala, Jennifer, McGuire, Meaghan, and Miller, Josh, 2009, Flipping the Switch: A Study of Lighting and Occupancy in Classrooms at the University of Colorado in Hellems and Education Buildings. 24pp.
- Aalto, Christina, Buck, Jason, Murphy, Sian, and Williams, Will, 2009, Energy Efficiency in Boulder's Rental Properties: Assessing Student and Landlord Perspectives. Barlow, L.K. and Hall, Rob, project managers and editors. 40pp.
- Marx, Charles, Kerr, Christopher, San Filippo, Daniel, and Martin, Perry, 2009, Reusable Mugs for a Greener Campus: Replacing Disposable Drink Containers with Reusable Mugs at the University of Colorado at Boulder. 27pp.
- De Marigny, Mary Catherine, Lehman, Allie, and Silvers, Ryan, 2009, Continuing Sustainable Bag Use at CU. 15pp.
- Pellicer, Elena, Burns, Erik, Baker, Kyle, and Costello-Ladoux, Kana, 2008, Sustainable Bags for a Sustainable Tomorrow: A Pilot Study for Replacing Single-Use Plastic Bags with Reusable Bags in all Dining Services Venues at the University of Colorado at Boulder. 38pp.
- Griffin, Mary Frances, Diaz, Nate, and Jordan, Sam, 2008, The Power to Change: Evaluating Energy Usage in Residence Halls at the University of Colorado at Boulder. 32pp.
- Zenter, Andrew, and Lieb, Anna, 2007, Lifecycle Analyses of Packaging Options in Grab-n-Go Dining Locations. *in* Sustainable Solutions for Grab-n-Go Packaging at the University of Colorado at Boulder. Final Report of the students of ENVS 3001, 2007. p. 7- 32
- Sigel, Emma, and Barlow, Lisa, 2007, Biodegradable Plastics. *in* Sustainable Solutions for Grab-n-Go Packaging at the University of Colorado at Boulder. Final Report of the students of ENVS 3001, 2007. p. 33-44
- Ashburn, Hayley, Irving, Kath, McGaughran, Jamie, and Sheehan, Kaitlyn, 2007, Fostering Sustainability at Piazanos: An Education and Outreach Campaign. *in* Sustainable Solutions for Grab-n-Go Packaging at the University of Colorado at Boulder. Final Report of the students of ENVS 3001, 2007. p. 45-50.
- Brown, Ali and Eaton, Christian, 2007, Sustainable Initiatives for Grab-n-Go Packaging at Other Colleges and Universities. *in* Sustainable Solutions for Grab-n-Go Packaging at the University of Colorado at Boulder. Final Report of the students of ENVS 3001, 2007. p. 51-60.
- Sterling, Nick, Kurtz, Melanie, Tarnowicz, Alex and Sueoka, Hilary, 2006, Organic/Natural Dining Options for Beef, Pork and Poultry at the University of Colorado at Boulder. *in* Meat, Seafood, Plants and Chemicals: Sustainable Choices for the University of Colorado at Boulder. p. 7-26.

- Card, Kenny, Waterstreet, Ryan, and Moore, Liz, 2006, Sustainable Seafood Guidelines. *in* Meat, Seafood, Plants and Chemicals: Sustainable Choices for the University of Colorado at Boulder. p. 27-48.
- Moret, Tim, Moore, Liz and Sueoka, Hilary, 2006, Xeriscaping Spreadsheet: A Tool For Sustainable Groundskeeping. *in* Meat, Seafood, Plants and Chemicals: Sustainable Choices for the University of Colorado at Boulder. p. 49-52.
- Moore, Liz, Sueoka, Hilary, Tarnowicz, Alex, and Sterling, Nick, 2006, Greening Our Cleaning: Custodial Responses to Green Cleaners. *in* Meat, Seafood, Plants and Chemicals: Sustainable Choices for the University of Colorado at Boulder. p. 53-66.

The following reports are ENV5 3001 2005 final report, Sustainability in the University of Colorado Dining Services: Offering and Implementing Sustainable Events, Food and Chemicals for the CU Population. 75 pp.

- Shlok, Basnet, Liu, Laura, Boyle, Margaret, and Hayes, Kyndal, Green Cleaning Products for Dining Hall Kitchens. p. 4-24.
- Pollack, Adam, Bernstein, Jeremy and Hoppus, Reed, Sustainable Activities at Other Universities. p. 25-29.
- Bernstein, Jeremy, Hoppus, Reed, and Pollack, Adam, Organic/Natural Product Options in CU Convenience Stores. p. 30-35.
- West, Benjamin, Koffler, Danielle, and Zinner, Dana, Fair Trade Coffee in Dining Services. p. 36-45.
- Zinner, Dana and West, Benjamin, Recyclable and Compostable Packaging for Grab-n-Go Outlets. p. 46-55.
- Koffler, Danielle, Global Jam as a Zero Waste Event, p. 56-59.
- Sweet, Jesse and Hanson, Andrew, Local Produce/Farm to Fork Program, p. 60-75.

Education Activities

Undergraduate Research and Mentoring

- Honors Thesis Committee, Danielle Brodrick, Environmental Design, Fall 2019-Spring 2020
- Norlin Scholars Application Review Committee, Spring 2020
- Fulbright Scholar Candidate campus Interviews, Fall, 2019
- Honors Thesis Committee, Anna Todd, Geological Sciences, Fall 2018-Spring 2019
- Norlin Scholars Application Review Committee, Spring 2019
- Nomination and Award presentation to Outstanding Alumni Turner Wyatt, Denver Food Rescue (former student of mine). 26th Annual Campus Sustainability Summit, April 18, 2019.
- Honors Thesis Committee, Josh Fader, Environmental Studies, Spring 2018-Fall 2018
- Mentor to Rhodes Scholar Finalist Joy Barber, Fall 2106 – Fall 2017
- Honors Thesis Committee, Coleman Heitt, Geological Sciences, Fall 2016-Spring 2017
- Honors Thesis Committee, Jamie Woodworth, Env. Studies, Fall 2014-Spring 2015
- Fulbright Scholar Campus Screening Committee, CU Boulder, 2013
- Honors Thesis Committee, Jesse Fife, Environmental Studies, Fall 2011, Spring 2012
- Fulbright and Marshall Scholars Programs Interview Committees, CU Boulder, Fall 2012
- Independent Study Advisor (ENV5 4840) Christina Aalto, Spring 2011
- Mentor to Jakob Van Eck Award winning student Bryant Mason, 2010
- Independent Study Advisor (ENV5 4840) Pauline Chow, Spring 2010

Dissertation Committee member, Amy Telligman, Environmental Studies 2009- 2014
Independent Study Advisor (ENVS 4840), Jessica McCaulley, Fall 2008
Mentor to Jakob Van Eck Award winning student Galen Brown, 2008
Honors Thesis Committee member, Jamie McGaughran, Environmental Studies, 2007-2010
Teaching Assistant Supervisor for various ENVS graduate students, 2005-2007
Honors Thesis Advisor, Alex Salmon, Individually Structured Major, 2005
Honors Thesis Committee member, Jason Gelfand, Environmental Studies, 2005
Mentor to Jakob Van Eck Award winning student, Adrian Clark, 2004
Fulbright Scholars Program interview committee, University of Colorado at Boulder, 2004
Mentor to Jakob Van Eck Award winning student, Winston Seiler, 1999
Honors Thesis Committee member, Winston Seiler, Geological Sciences, 1999

Teaching Enhancement Activities

Faculty Fellow, Learning by Design: Active Learning in STEM classrooms Fall 2020
Remote Teaching and Inclusivity: Colorado Learning and Teaching with Technology Conference, Aug. 5-6, 2020
Supporting Student Resiliency Series: Supporting Survivors of Trauma. Nov. 7, 2019
Student Wellness Seminar: Be the 1 (national suicide prevention program) Oct. 15, 2019
Supporting Student Resiliency Series: Supporting Underrepresented Students. Feb. 7, 2019
Inclusive Excellence Workshop, Office of Diversity, Equity, and Community Engagement, Feb. 27, 2018
Biomimicry and CU Faculty Forum, Jan. 12, 2018
What Cognitive Psychology Says About Learning: 21 Training Principles (FTEP) Oct. 2017
Working with Students with Executive Function Issues, (Supporting Emotional Needs of the Gifted – SENG), Oct. 2017
Inclusive Pedagogy Workshop for RAP Instructors, Aug. 2017
Personal Sustainability Seminar (research for BAKR 1600) April 2017
Sharing Best Practices for the First Year Classroom, Workshop for Instructors, March 2017
Classroom Interviews and Consultation for teaching assessment (FTEP-CLIP) Spring 2013
Peak 2 Peak Workshop on Incorporating Sustainability in to the Curriculum, Aug. 2012
Community Based Social Marketing Advanced Workshop with Doug McKenzie-Mohr, May, 2012
New course development: BAKR 1600, Creating a Sustainable Future. Arts and Sciences core course, Contemporary Societies. Spring 2008
Classroom Interviews and Consultation for teaching assessment (FTEP-CLIP) Fall 2008
FTEP Summer Institute for Understanding and Using Social Networking and Interaction Tools Associated with Web 2.0 in Support of Student Learning May 2008
Collaborative Institutional Training Initiative (CITI) course for research on Human Subjects, Sept. 2008
Fostering Sustainable Education Workshop/Fostering Sustainable Behavior, Community-Based Social Marketing, with Dr. Doug McKenzie-Mohr, Feb. 21-23, 2007
Department of Geological Sciences Education Initiative working group for development of GEOL 1010 curriculum, Spring 2007
Service Learning course design workshop, Institute for Ethical and Civic Engagement Jan. 11, 2007

Biomimicry Institute: Innovation Inspired by Nature Workshop, Biomimicry Institute, Sept. 28, 2007

Leading Classroom Discussion workshop, Faculty Teaching Excellence Program, 2006

Sustainability and Ecology Training Intensive, Integral Institute, March 10-12, 2006

“Performance in a Nutshell” workshop, Faculty Teaching Excellence Program (FTEP), 2004

Classroom Interviews and Consultation for teaching assessment (FTEP-CLIP), 2004

Major course revision: ENVS 3001 restructured as a service learning course, 2001

Education Chair, Geological Society of America annual meeting. 1999

Co-Leader, GSA-sponsored field trip for K-12 teachers on US Geological Survey teaching resources and inquiry-based field exercises. 1999

“Learning How to Learn” a Neurolinguistic Programming workshop (20 hours of course work and practicum). 1999

Reviewer for EarthCom, the national high school Earth Science curriculum being developed by the American Geological Institute (AGI), 1999

University of Colorado Dept. of Geological Sciences Colloquium presentation ‘Geoscience Education: What’s going on?’ and teaching workshop. 1998

GSA Geoscience Education Division Theme session initiator and session co-chair, ‘Earth Science Laboratories for the Introductory Undergraduate Level’, GSA annual meeting. 1988 GSA/NSF Earth and Space Science Technological Education Project (ESSTEP), 1997

NAGT/NSF Innovative Teaching and Course Design in the Geosciences workshop, College of William and Mary, 1997

Practitioner Certification in Neurolinguistic Programming, (144 hrs coursework and practicum) 1995

Textbook Reviews

Textbook Review, Earth: An Introduction to Physical Geology, 11th edition, Pearson, 2014

Peer Reviewer, International Journal of Sustainability in Higher Education, Spring 2014

Textbook Concept Review (text on Sustainability), Oxford University Press, Summer, 2013

Textbook Reviewer for Blue Planet, An Introduction to Earth System Science, 3rd edition, Wiley Publishers. 2008

Reviewer for Environmental Science, Addison Wesley Longman, Publishers, 2000

Reviewer for Blue Planet, an Introduction to Earth System Science 2e, 1998

Service Activities

Service to University, College, or Departments

Boulder Faculty Assembly Climate Science and Education Committee member, Fall 2020

Boulder Faculty Climate Science and Education Committee, speaker committee, Spring 2020

Sustainability/Environmental Awards Committee, University of Colorado at Boulder, 2000-present

Sustainability Summit Planning Committee, University of Colorado at Boulder, 2019

Strategic Planning Committee, Teaching Subcommittee, College of Arts and Sciences, University of Colorado at Boulder, 2017-2018

Advisory Board, Undergraduate Certificate in Social Innovation, University of Colorado at Boulder, 2017- present

Campus Sustainability Committee: CU Boulder Net Positive Energy, Fall, 2016

Boulder Faculty Assembly Excellence Awards, Leadership and Service Selection Committee, Spring 2016
Inclusive Excellence Committee, Baker Residential Academic Program Spring 2016
Integrated CU Sustainability Initiative Report to the Provost, contributing author, Spring 2015
Campus Sustainability Working Group, School of the Environment and Sustainability, Fall 2014 – Spring 2015
Mission Revisioning Committee, Baker Residential Academic Program, Fall 2015
Association for the Advancement of Sustainability in Higher Education (AASHE) Sustainability Tracking, Assessment and Rating System (STARS) 2014 report contributor/responsible party section A-8, Campus as a Living Learning Laboratory <https://stars.aashe.org/institutions/university-of-colorado-at-boulder-co/report/2014-09-22/AC/curriculum/AC-8/>
Sustainability Roundtable Revisioning Committee, CU Boulder, Fall, 2013
Departmental Service, Baker Residential Program, various activities including Fall Welcome Program, Admitted Students Day, summer orientations, Parents Weekend, Sustainability Committee chair, and field trip participation, 1994-present
Instructor Search Committee, Baker Residential Academic Program, Fall 2011
Program Review Committee, Environmental Studies Program, Fall 2011
Boulder Faculty Assembly Excellence in Service Award Committee, Spring 2011
Undergraduate Curriculum Committee, Environmental Studies Program, 2005-2012
Contributing member, CU Sustainability Tracking, Assessment and Rating System (STARS) Summer, 2010
Sustainability Task Force, Campus Master Plan, Fall 2009-Spring 2010
External Referee for promotion candidate Dr. Matthew Shinderman, Oregon State University Cascades, Fall 2009
Coordinator for CU Faculty Workshop on Integrating Sustainability into the Curriculum with Dr. Geoffrey Chase, San Diego State University, Feb. 12, 2009
Curriculum Committee, College of Arts and Sciences, University of Colorado at Boulder, 2007- 2008, Spring 2009
Advisor, Department of Housing and Dining, Green Residence Hall Room development for campus tours, Spring 2007
Environmental Literacy Committee, Blueprint for a Green Campus, 2005 update
Peer reviewer: various papers and proposals for National Science Foundation Office of Polar Programs and Division of Undergraduate Education (Review Panel), Journal of Geophysical Research, Climatic Change, Journal of Glaciology, The Mountain Geologist, Journal of Geoscience Education, and Journal of the North Atlantic, 1994-2008

Service to Community

National Ocean Sciences Bowl: Trout Bowl volunteer 2012, 2013, 2014, 2018
Flatirons Farm (Community Supported Agriculture) post-flood reconstruction 2013
Ralphie's Green Team (Zero Waste Goalie at football games) 2011, 2013
Science Fair Judge, Heatherwood Elementary School, Boulder, Colorado, 2006-2010
Heatherwood Elementary School Science Fair Committee and Judges coordinator, Boulder, Colorado 2006-2007

Central Elementary School Science Fair Committee and Judges coordinator, Longmont, Colorado 2002-2005

Media Recognition

- 2020 University of Colorado Environmental Center 50th Anniversary Video Archive
Interview for my reflections on years of collaboration as a faculty member with Environmental Center staff and student volunteers.
- 2015 Sustainable Student Living at CU interview for faculty perspective on teaching in Baker Hall as a living learning laboratory. Youtube video produced by CU Facilities Management Office of Sustainability
<https://www.youtube.com/watch?v=bpqcPclRiug>
- 2007 Inside CU interview, 'Toward a Sustainable Dining Future at CU' June 26
<http://www.colorado.edu/insidecu/editions/2007/6-26/story3.html>
- 2003 National Science Teachers Association video interview, Search for Solutions series
- 2001 Carillon interview: 'Students in Service Learning Program make a difference in the Community, Sept. 21
- 2000 Daily Camera interview and profile: 'Ph.D. student (sic) taking on Arctic history' May 14
- 2000 Denver Post interview: 'CU scientist studies Viking mystery' May 15
- 2000 On-camera interview, Public Broadcasting Service (PBS) documentary Secrets of the Dead: The Lost Vikings, and website editing for PBS