

Curriculum Vita

Kate Lajtha
 Department of Botany and Plant Pathology
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Research Interests:

Nutrient cycling in natural and human-disturbed ecosystems, including the attenuation of increased nitrogen inputs to terrestrial ecosystems by soils and vegetation, detrital controls on soil organic matter formation

Education:

B.A. Harvard University, Biology, 1979
 Ph.D. Duke University, Botany, 1986

Employment:

2002-present: Director, Environmental Sciences Program, Oregon State University
 2000-present: Professor, Department of Botany and Plant Pathology, Oregon State University
 1995-2000: Associate Professor, Department of Botany and Plant Pathology, Oregon State University
 1996-1997: Interim Director, Environmental Sciences Program, Oregon State University
 1993-1995: Associate Professor, Department of Biology, Boston University
 Associate Director, Center for Energy and Environmental Studies
 Director, Environmental Science Major
 1987-1993: Assistant Professor, Department of Biology, Boston University
 1986-1987: University Postdoctoral Fellow, Ohio State University
 1981-1986: Graduate Research and NSF Fellow, Department of Botany, Duke University

Academic Honors and Fellowships:

OSU National Mortar Board Student Honor Society "Top Professor" Honoree, 2000
 University Honors College Outstanding Teaching Award, 2000
 National Academy of Sciences Representative, US-Romanian Program in Environmental Studies, 1991-1992
 Murray Buell Award at the Annual Meeting of the Ecological Society of America, 1986
 University Postdoctoral Fellowship, Ohio State University, 1986
 NSF Predoctoral Fellowship, 1982-1986
 James B. Duke Fellowship, Duke University, 1981-1986
 National Merit Scholarship to Harvard University, 1975

Graduate Students Advised:

Boston University:

B. Keller, Ph.D. 1998 (co-advisor). "Trace metal sorption and cycling in the Danube Delta."
 A. Jamil, M.A. 1996. "Mussels as bioindicators of trace metals in the Danube Delta."
 B.A. Seely, Ph.D. 1996. "Atmospheric deposition and flux dynamics of nitrogen in the coastal forests of the Waquoit Bay Watershed, MA."
 K.A. Kolberg, M.A. 1994. "Trace metal chemistry and ecophysiology of the saguaro cactus in the Sonoran Desert."
 J.L. Dudley, Ph.D. 1992. "Secondary succession and nitrogen availability in coastal heathlands."
 C.L. Barford, M.A. 1991. "Plant litter chemistry and nitrogen cycling along a secondary successional

gradient."

D.J. Padien, M.A. 1990. "Stand structure and nutrient dynamics in a pinyon-juniper community of northern New Mexico."

Oregon State University:

J. Frentress, M.S. expected 2008.

J. Rasmussen, M.S. expected 2008.

K. Townsend, Ph.D. expected 2010.

S.Crow, Ph.D. 2006. "Characteristics of Soil Organic Matter in Two Forest Soils."

Kristen Harrison, M.S. 2003 (co-advisor), Botany and Plant Pathology. "Litter decay processes and soil nitrogen availability in native and cheatgrass-dominated arid rangelands."

J. Spears, Ph.D. 2002. "The imprint of coarse woody debris on soil chemical and biological properties in the Western Oregon Cascades"

S. Holub, Ph.D. 2002. "The fate of organic and inorganic nitrogen inputs in an old-growth forest of the Central Oregon Cascade Range"

Y. Yano (Forest Science, co-advisor), Ph.D. 2002. "Characteristics of Dissolved Organic Matter (DOM) and Its Stabilization in a Forest Soil"

K. Vanderbilt (Forest Science, co-advisor), Ph.D. 2001. "Patterns of Nitrogen Fluxes in Watersheds of the H.J. Andrews Experimental Forest, OR."

Marion Brodhagen, M.S. 1998 (co-advisor), Botany and Plant Pathology. "Concentrations of secondary metabolites following manipulations of the C:N ratio in spotted knapweed, Centaurea maculosa Lam."

Teaching at Oregon State University:

BI 101, Introductory Biology. 1995 – 1996.

BI 306H, Environmental Ecology. 1996 - present. WIC Honors College course.

BI 370, Ecology. 1996, 1998, 2001

BI 370H, Honors Ecology, 2002 - present

FS 691, Stable Isotopes in Ecological Research (2 cr. seminar). 1996.

BOT/FS 547, Forest Nutrient Cycling. 1998 – 1999, 2004, 2006

BOT 505/605, Ecosystem Biogeochemistry, 1997 –

ENSC 102, Orientation to North American Environmental Sciences, 2000 - 2003

ENSC 101, Introduction to Environmental Sciences, 2002 - present

Departmental, College, University Service:

Soil Rhizosphere Biologist search committee, 2006

Forest Soil Organic Biogeochemistry search committee, 2005.

Advisory Board, Writing Intensive Curriculum (WIC) Program (2004-present)

Director, Undergraduate Environmental Sciences Program, 2002 - present

Director, FIPSE Study Abroad Program in Guaymas for Environmental Science students, 1998 - 2002

Interim Director, Environmental Sciences Program, 1996-1997

Environmental Sciences Advisor, 1996 - present

University SAIC, 1995 -2001

Plant Ecology Curriculum Committee, 1995/6.

BPP Graduate Committee, 1996

BPP Dept. Seminar Series, 1996 - 1997

Center for the Analysis of Environmental Change (CAEC) Steering Committee, 1997 -1998

Faculty Senate 1998 -2000, 2004 - present

College of Science post-admission recruiting, 1998 -1999

Distance Education Ad-hoc Committee for Environmental Sciences, 1997 - 1999

Professional Service:

2006 Workshop Co-convenor, LTER All-scientists Meeting. Estes Park, Co.

- US member, Environmental Sciences Panel, Deutsche Forschungsgemeinschaft (German Research Foundation) for Germany's "Excellence Initiative"
- 2005 National Ecological Observation Network (NEON) Biogeochemistry committee member
Member of organizing committee, 2nd International Conference on Mechanisms of Soil Organic Matter Stabilization, Monterey, CA, October 9-13, 2005.
- 2004 Panel Member, NSF DEB Ecosystems (2004 – 2008)
Session Chair, Ecological Society of America annual meeting. Biogeochemistry: Soil and Nutrient Cycling.
Editor-in-Chief, Biogeochemistry (to present)
Invited Participant, Workshop on Root Biology, University of Michigan Biological Station, Pellston, MI.
Co-Convener, LTER Strategic Plan Workshop: Nitrogen deposition and ecosystem effects. Boulder, CO.
- 2003 Member, US-ILTER (International Long-Term Ecosystem Research) National Committee (to present)
Invited Member, NSF Workshop: New Frontiers in Carbon Dynamics in Soils
- 2002 Co- Editor in Chief, Biogeochemistry
Chair, Corporate Award, Ecological Society of America (2002-2005)
- 2001 Session Chair, Ecological Society of America annual meeting: Ecosystem Processes: Decomposition and Litter.
- 2000 ESA Corporate Award Committee member

Peer-review Promotion Panel member, EPA Western Ecology Division
- 1999 Co-Organizer, ILTER (International Long Term Ecosystem Research Network) workshop: Cooperation in Long Term Ecological Research in Central and Eastern Europe. Budapest, Hungary, 1999.
- 1998 Invited Member/ Participant, Scientific Committee on Problems of the Environment (SCOPE) working group: Nitrogen Transport and Transformations: A Regional and Global Analysis. National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, CA

Invited Member/ Participant, ILTER (International Long Term Ecosystem Research Network): Workshop to Develop the ILTER in Poland. Warsaw, Poland.
- 1997 Session Chair, Third International Symposium on Ecosystem Behavior (BIOGEOMON): Nitrogen Cycling, Limitations, and Saturation in Terrestrial Ecosystems. Villanova University, PA.

Member of Organizing Committee, Ecological Society of America (ESA) SBI Workshop, Atmospheric Nitrogen Deposition to Coastal Watersheds. Univ. Rhode Island.

Committee Member, National Network of Index Sites, Office of Science and Technology Policy, The White House.
- 1996 Invited Participant, LTER Soils Methods Standardization Workshop. Albuquerque, NM.
- 1995 Associate Editor, Biogeochemistry (1995 - present)

Panel Member, USDA-NRICGP: Strengthening Awards.
- 1994 Panel Manager, USDA-NRICGP: Forest/Range/Crop/Aquatic Ecosystems.

- Invited Participant, Scientific Committee on Problems of the Environment (SCOPE) workshop: Terrestrial N loading to the Coastal Environment. Block Island, RI.
- ESA MacArthur Award Committee.
- Invited Participant, International Arid Lands Consortium Workshop: Arid Lands Management - Towards Ecological Sustainability. Jerusalem, Israel.
- 1993 Member of Organizing Committee, Scientific Committee on Problems of the Environment (SCOPE) Workshop: Improved Management of Phosphorus Resources: A Global Perspective. Budapest, Hungary.
- Session chair, Ecological Society of America national meeting: Wetland ecology: vegetation dynamics and nutrient cycling.
- Invited Participant, International Geosphere-Biosphere Programme (IGBP) Core Project in Global Change and Terrestrial Ecosystems (GCTE), Transect Workshop. San Francisco, CA.
- Panel Member, DOE: Problems in Ecosystem Research (PER).
- 1992 Ecological Society of America MacArthur Award Committee.
- Panel Member, USDA-NRICGP: Forest/Rangeland/Crop Ecosystems.
- 1991 Panel Member, USDA-NRICGP: Forest/Rangeland/Crop Ecosystems.
- Invited Participant: US-Romanian Summer Program for Young Investigators in Ecology/Environmental Sciences, National Academy of Sciences.
- Invited Participant, 4th Cary Conference: Human Influences on Ecosystems: Subtle Human Effects and the Ecology of Populated Areas. Cary Arboretum, NY.
- Invited Participant, NSF Workshop: Soil Warming. Woods Hole, MA.
- 1990 Consulting Editor, Biogeochemistry (1990-1995).
- Invited Participant, NSF Workshop, Advancing Toward Closure of the Carbon, Water, and Nutrient Cycles in Temperate Forest Ecosystems. Fort Collins, Colorado.
- Invited Participant, NSF Workshop, Scaling Processes Between Leaf and Landscape Levels. Snowbird, Utah.
- Session chair, ESA national meeting: Ecosystem dynamics.
- Invited Reviewer for Blackwell Scientific Publications, for M. Begon, J.L. Harper, and C.R. Townsend, Ecology: Individuals, Populations, Communities.
- 1989 Invited Participant, Arid Ecosystem Interactions Workshop, OIES/NCAR. Boulder, Colorado.
- Invited Participant, Scientific Committee on Problems of the Environment (SCOPE) workshop, Terrestrial and Aquatic Phosphorus Cycles in Latin America. Caracas, Venezuela.
- 1988 Session chair, Ecological Society of America (ESA) national meeting: Nutrient dynamics in Arctic, grassland and desert ecosystems.
- ESA Buell/Braun Awards Selection Committee.

NSF Panel Member: Postdoctoral Fellowships.

Recent Research Support:

- 2005 Key Role of Nitrogenous Compounds in Soil Organic Matter Stabilization via Interactions with Mineral Surfaces. \$389,000 (USDA CSREES 2005-35107-16336, PI Sollins)
- Preferential and Stable Sorption of N- vs. C-rich Soil Organic Matter on Mineral Surfaces. \$59,969 (NSF DEB-0515846 (SGER); PI Sollins).
- Conference on Mechanisms of Soil Organic Matter Stabilization, Monterey, CA, October 9-13, 2005. \$14,985 (NSF DEB- 0511835, PI Sollins).
- Conference on Mechanisms of Soil Organic Matter Stabilization. \$9,963 (USDA CSREES 2205-35107-16016).
- 2004 DIRT (Detritus Input and Removal Treatments): A Cross-Continental Study of Controls on Soil C (Carbon) and N (Nitrogen) Dynamics. National Academy of Sciences. \$33,530.
- 2002 Detrital controls on SOM dynamics in an old-growth Douglas-fir soil. \$290,000 (USDA NRICGP 2002-35107-12249; PI, co-PI Sollins)
- 2001 U.S.-Hungary: A cross-continental study of controls on soil carbon and nitrogen dynamics. \$33,966 (NSF INT-0002956) 2-1-01 to 1-31-04
- Nutrient status of a disturbed desert ecosystem: mechanisms for landscape change. \$63,683 (CERL) 9-1-01 to 8-31-03
- 2000 Collaborative Research: Dirt: a cross-continental, experimental study of forest SOM and N dynamics. \$295,942 (\$128,369 to OSU) (NSF DEB-0087081)
- 1999 U.S. – Hungary: Workshop to plan a Carpathian Basin ILTER Network. \$32, 290 (NSF INT-9901106)
- 1997 SOM and N dynamics in an old-growth, Douglas-fir ecosystem: a long-term experimental manipulation. \$275,000 (USDA NRICGP #97-35101-4256; co-PI, P. Sollins PI)
- Multi-User Biological Equipment Program. \$42,298 (NSF #DBI-9729468; PI's R. Griffiths, W.A. McKee, K.Cromack Jr.; S.V. Gregory, K. Lajtha)
- 1995 Superfund Basic Research Center at Boston University. (NIEHS Superfund Basic Research Program #94-007; co-PI with D. Ozonoff, P.I.)
- 1994 Assimilative capacity and retention of heavy metals in wetlands and lakes of the Danube Delta, Romania. \$50,000 (EPA)
- 1992 Assimilative capacity and retention of heavy metals between component ecosystems within the Danube Delta, Romania. \$24,993 (EPA)
- Research exchange visit to the Danube Delta of Romania. \$3200. (National Research Council/National Academy of Sciences)
- 1991 Ecophysiological, nutrient cycling, and toxic element studies of the saguaro cactus. \$25,000. (National Park Service, Air Quality Division)

- Environmental Analysis and Monitoring in an Urban Environment. \$23,758. (NSF/ILI, USE-9152407)
- 1990 Coupling of watersheds and coastal waters in Waquoit Bay. \$1,967,200. (NSF/NOAA Land Margin Ecosystem Research Program, OCE-89-14729; co-PI with I. Valiela, P.I.)
- AWU-DOE Faculty Fellowship, Los Alamos National Laboratory \$12,000
- Ecophysiological, nutrient cycling, and toxic element studies to determine the cause of the decline of the saguaro cactus in the Rincon Mountain District of Saguaro National Monument. \$20,000. (National Park Service, Air Quality Division)
- 1989 AWU-DOE Faculty Fellowship, Los Alamos National Laboratory \$12,000
- 1988 AWU-DOE Faculty Fellowship, Los Alamos National Laboratory \$6,500
- Purchase of an Isotope Ratio Mass Spectrometer. \$161,400. (NSF DIR-8812235; with T. Kunz)

Invited Seminars:

- 2007 Transformations of DOM in forested catchments: the fate of DOM from litter and soil to river export. New Mexico State University.
- Soil organic matter stabilization: what long-term manipulations can tell us. Western Washington University.
- 2006 Ecosystem controls on soil solution chemistry. USGS, Portland, OR.
- Playing in DIRT: What litter manipulations can tell us about soil biogeochemistry and soil organic matter stabilization. Dept. Zoology, Oregon State University.
- Soil organic matter stabilization: what long-term manipulations can tell us. Dept. Forest Science, Oregon State University.
- 2004 DIRT: an experimental approach to soil organic matter studies. Institute of Ecosystem Studies, Millbrook, NY.
- 2002 Detrital controls on soil organic matter dynamics: stories from DIRT, a cross-continental field experiment. University of Debrecen, Hungary.
- 2001 Detrital controls on soil organic matter dynamics: success stories from a cross-continental manipulative experiment. University of New Mexico.
- Detrital controls on soil organic matter dynamics: stories from DIRT, a cross-continental field experiment. UC-Davis.
- 1999 Collaboration in DIRT plots across North America. Carpathian Basin ILTER meeting, Budapest, Hungary.
- 1998 Carbon and nitrogen manipulations in North American forests. Carpathian Basin ILTER (International Long Term Ecosystem Research Network) working group, Warsaw, Poland.
- 1996 The watershed perspective: nitrogen saturation and nitrogen loss in coastal forests of Waquoit Bay, Ma. Cornell University.

- 1995 Retention and leaching losses of atmospherically-derived nitrogen in the aggrading coastal watershed of Waquoit Bay, MA. US EPA Laboratory, Narragansett, RI
- 1994 The watershed perspective: nitrogen saturation and nitrogen loss in coastal forests of Waquoit Bay, Ma. Harvard University.
- Coupling of watersheds and coastal waters: nitrogen dynamics and nutrient retention in coastal forests of Waquoit Bay, Massachusetts. University of Georgia.
- Coupling of watersheds and coastal waters: nitrogen dynamics and nutrient retention in coastal forests of Waquoit Bay, Massachusetts. Oregon State University.
- Retention and leaching losses of atmospherically-derived nitrogen in the aggrading coastal watershed of Waquoit Bay, MA. SUNY-Binghamton, Binghamton, NY
- 1993 Coupling of watersheds and coastal waters: nitrogen dynamics and retention in coastal forests of Waquoit Bay, Ma. Dartmouth College.
- 1992 Ecophysiology of the saguaro cactus in the Sonoran Desert of Arizona. Ecosystems Center, MBL, Woods Hole, MA.
- Is air pollution contributing to the decline of the saguaro cactus? National Park Service, Tucson, Arizona.
- Trace metal and nutrient dynamics in the Danube Delta of Romania: remediation of a highly eutrophic wetland. University of Massachusetts at Boston, Environmental Studies Program.
- 1991 Ecophysiology and nutrient relations of the saguaro cactus: causes and patterns of decline. Harvard University.
- 1990 Photosynthesis and water-use efficiency in pinyon-juniper communities along environmental gradients. Harvard University.
- Water and nutrient use in pinyon-juniper communities of northern New Mexico along environmental gradients. University of New Hampshire.
- 1989 Resource-use efficiency in semi-arid plant communities of northern New Mexico. University of Rhode Island.
- Susceptibility of western desert ecosystems to air pollution and acid rain. National Park Service, Tucson, Arizona.
- 1988 The biogeochemistry of phosphorus cycling in a desert ecosystem. Ecosystems Center, Marine Biological Lab.
- The biogeochemistry of resource limitation in desert ecosystems. Cornell University.
- The biogeochemistry of nutrient cycling in arid and semi-arid ecosystems. Los Alamos National Laboratory.
- The nature of nutrient limitations in desert ecosystems. CEES, Boston University.
- 1987 Effects of water and nitrogen amendments on photosynthesis, leaf demography, and resource-use efficiency in Larrea tridentata, a desert evergreen shrub. Natural Resource Ecology Lab, Colorado State University.

Published Abstracts of Papers Presented at Professional Meetings:

- 2006 W.J. van Verseveld, C.B. Graham, H.R. Barnard, J.J. McDonnell, K. Lajtha, R.J. Brooks, B.J. Bond.. Linking Water Pathways and Sources of Dissolved Organic Matter at the Hillslope Scale: A 24- Day Sprinkling Experiment. AGU Annual Meeting.
- H. Johnson, C. Kendall, J. McDonnell, K. Lajtha, S. Griffith, C. Anderson, R. Grove, J. Frentress. Insights Into the Hydrology of the Willamette River Basin Using d18O of Water During Summer Baseflow Conditions. AGU annual meeting.
- C. Kendall, K. Lajtha, J. Frentress, J. McDonnell, H. Johnson, C. Anderson, R. Grove, S. Griffith. Tracing Sources of Nitrate and Organic Matter in the Willamette River Basin During Summer Baseflow Conditions using Isotopic Techniques. AGU annual meeting.
- B. Caldwell, K. Lajtha, S. Crow. Reactive Polyphenols: Adding a Functionality to DOM. AGU annual meeting.
- K. Lajtha, Y. Yano, S. Crow, S. Kaushal. Transformations of DOM in forested catchments: the fate of DOM from litter and soil to river export. AGU annual meeting.
- W. van Verseveld, C. Graham, H. Barnard, J. McDonnell, K. Lajtha, J. R. Brooks, B. Bond. Linking water pathways and nutrient sources in a small headwater catchment: A controlled sprinkler experiment at the HJ Andrews Experimental Forest, Oregon USA. LTER All-Scientists's Meeting, Estes Park, CO.
- E. Sulzman, B. Bond, K. Lajtha, B. Caldwell, Z. Kayler, M. Hauck, T. Pypker, M. Unsworth, and A. Mix Links between the subsurface biosphere and the atmosphere: examples from DIRT and Airshed. SBI Conference, Newport OR.
- S. E. Crow, T. R. Filley, B. A. Caldwell, K. Lajtha. Different input sources dominate soil organic matter dynamics at 2 forested sites (DIRT Project). Soil Science Society of America Annual Meeting, Indianapolis.
- K. Lajtha, S. Crow, B. Caldwell, Y. Yano, E. Sulzman, P. Sollins. Above - and belowground litter controls on forest soil dynamics. Soil Science Society of America Annual Meeting, Indianapolis.
- B. Caldwell, K. Lajtha, P. Sollins. Enzymatic activity against beta-glucans in forest soils: distinguishing the processing of litter versus soil polysaccharides. Soil Science Society of America Annual Meeting, Indianapolis.
- Van Verseveld, W., J. McDonnell, C. Graham, H. Barnard, K. Lajtha, B. Bond, R. Brooks. Linking Water Pathways and Nutrient Sources during a Hillslope Scale Sprinkler Experiment, HJ Andrews Experimental Forest. 3rd APHA Conference, Bangkok, Thailand.
- Caldwell, B.A., K. Lajtha., P. Sollins. Diversity of soil protease activities: separating bacterial and fungal contributions. BIOGEOMON, Santa Cruz, CA.
- Townsend, K.L., B.A. Caldwell, S. Crow, K. Lajtha. Litter manipulation and C quality: a cross-site comparison. BIOGEOMON, Santa Cruz, CA.
- Crow, S.E., K. Lajtha, C. Swanston, B.A. Caldwell, T. Filley, K. Townsend. Response of organic matter fractions to alterations in litter inputs. BIOGEOMON, Santa Cruz, CA.

- 2005 S. Crow, H. Keirstead, K. Lajtha, E. Sulzman, R. Brooks, C. Swanston, and P. Sollins. Interpreting density fractions – in search of meaningful soil organic matter pools. 2nd International Conference on Mechanisms of Organic Matter Stabilization and Destabilization in Soils. Asilomar, CA.
- B. Caldwell, K. Lajtha, K. Nadelhoffer, R.D. Bowden, S. Crow, and P. Sollins. Detritus Input and Removal Treatments (DIRT) as an experimental approach to studying SOM dynamics. 2nd International Conference on Mechanisms of Organic Matter Stabilization and Destabilization in Soils. Asilomar, CA.
- P. Sollins, C. Swanston, M. Kleber, K. Lajtha, M. Kramer, T. Filley, .S. Crow, B. Caldwell, R. Bowden, and D. Beilman. Organic C and N stabilization in a forest soil: evidence from sequential density fractionation 2nd International Conference on Mechanisms of Organic Matter Stabilization and Destabilization in Soils. Asilomar, CA.
- P. Sollins, C. Swanston, M. Kleber, K. Lajtha, M. Kramer, T. Filley, .S. Crow, B. Caldwell, R. Bowden, and D. Beilman. Organic C and N stabilization in a forest soil: evidence from sequential density fractionation International Meeting of Organic Geochemistry (IMOG), Seville, Spain.
- Van Verseveld, W. J., J.J. McDonnell, and K. Lajtha. Hydrological controls on nitrogen and DOC transport at the plot, hillslope and catchment scale, HJ Andrews Experimental Forest. AGU annual meeting.
- 2004 P. Sollins, T. Filley, S. Crow, C. Swanston, K. Lajtha, and B. Caldwell. Control of SOM Stabilization by Preferential Sorption of Nitrogenous Compounds. AGU annual meeting
- K. Lajtha, S. Crow, Y. Yano, S. Kaushal, E. Sulzman, P. Sollins. Detrital Controls on Dissolved Organic Matter in Soils: A Field Experiment. AGU annual meeting
- S.E. Crow and K. Lajtha. Nitrogen addition as a result long-term root removal affects soil organic matter dynamics. AGU annual meeting
- E.W. Sulzman, R. Bowden, K. Lajtha. On-Line Isotopic Analysis of Soil-Respired CO₂ AGU Annual Meeting
- E.W. Sulzman, J.B. Brant, S.E. Crow, W. Rugh, J. Moore, and K. Lajtha. Soil CO₂ efflux from forest soils: Isotopic composition and the role of roots. ESA annual meeting.
- Lajtha, K. Detrital controls on soil organic matter dynamics and soil solution chemistry: An experimental approach. ESA annual meeting.
- 2003 Cairns, M. and K. Lajtha. Carbon and nitrogen pools in Oregon Cascades forests over a successional gradient. EOS (Trans. AGU) 79(45): F320.
- K. Lajtha, Y. Yano, E. Sulzman, S. Crow, R.D. Bowden, B. Caldwell, K. Nadelhoffer, J. Toth, K. Vanderbilt. Detrital control of soil organic matter dynamics: an experimental approach. International Conference on Mechanisms and Regulation of Organic Matter Stabilisation in Soils. Munich, Germany. Abstracts p. 40
- Crow, S.E. and K. Lajtha. Effects of manipulating detrital inputs on the lability of soil density fractions. International Conference on Mechanisms and Regulation of Organic Matter Stabilisation in Soils. Munich, Germany. Abstracts p. 106
- B. A. Caldwell, K. Lajtha, E. Sulzman, R. Bowden, P. Micks, K. Nadelhoffer, J. Toth, K. Vanderbilt. Detrital controls on microbial processing of SOM in four forest soils. International Conference on Mechanisms and Regulation of Organic Matter Stabilisation in Soils. Munich, Germany. Abstracts p. 104

- Sulzman, E., K. Lajtha, R. Bowden, J. Brant, B. Caldwell, S. Crow, H. Keirstead, K. Nadelhoffer, J. Toth, K. Vanderbilt, Y. Yano. An experimental approach toward understanding soil organic matter dynamics. LTER All-Scientists' Meeting, Seattle, WA.
- Y. Yano, K. Lajtha, P. Sollins, B. Caldwell. Effects of litter quality on dissolved organic matter and its dynamics in a temperate coniferous forest soil. 4th North American Forest Ecology Workshop. June 16-20, 2003. Corvallis, Oregon
- B.A. Caldwell, B. Baros, R.D. Bowden, M. Copeland, S. Crow, K. Lajtha, P. Micks, K. Nadelhoffer, W.H. McDowell, E. Sulzman, J. Toth, and K. Vanderbilt. Influence of Detrital Inputs on Carbon Processing in Forest Soils. North American Forest Soils Conference, Montreal.
- J. Aitkenhead-Peterson, W. McDowell, K. Lajtha, P. Micks and K. Nadelhoffer. Sources and Dynamics of Dissolved Organic Carbon and Nitrogen in a Hardwood Forest Floor. Harvard Forest Symposium, Petersham MA.
- 2001 K. Lajtha, J.D.H. Spears, S. Holub, Y. Yano, B. Caldwell, Detrital controls on SOM and nutrient dynamics in an old-growth forest soil. ESA meeting in Madison, WI Abstracts p. 137.
- Y. Yano, K. Lajtha, P. Sollins, B. Caldwell, J. Spears, Characteristics of dissolved organic matter and its stabilization in forest soil. ESA meeting in Madison, WI Abstracts p. 240-241.
- J. Spears and K. Lajtha, Coarse woody debris may influence soil chemistry and direct pedogenesis towards podzolization in the Oregon Cascades. ESA meeting in Madison, WI Abstracts p. 210.
- S. Holub and K. Lajtha, The fate and retention of organic and inorganic nitrogen in a western Oregon coniferous forest. ESA meeting in Madison, WI Abstracts p. 115-116.
- 2000 K. Lajtha, B. Caldwell, R. Bowden, D.Coleman, W.Currie, S. Hobbie, B. McDowell, J. Moore, K. Nadelhoffer, J. Toth. DIRT: a cross-continental, experimental study of forest SOM and N dynamics. ESA Abstracts p. 392.
- J.D.H. Spears, K. Lajtha, S.B. Pennington, B.A. Caldwell, K. Vanderbilt. Contrasting and comparing the species effects of a nitrogen fixing species, *Ceanothus velutinus*, and a non-nitrogen-fixing species, *Pseudotsuga menziesii*, Douglas-fir, on soil phosphorus and nitrogen properties in the Oregon Cascades. ESA Abstracts p. 340.
- Yano, Y., K. Lajtha, P. Sollins, B. Caldwell, and J. Spears. Characteristics of DOC and its stabilization in forest soils. AGU Annual Meeting Abstracts, Dec. 2000.
- 1999 van Breemen, N., E. Boyer, N. Jaworski, K. Lajtha, K.J. Nadelhoffer, D. Van Damme. Estimated losses and storage of N inputs to 15 watersheds of the mid-Atlantic and New England states, USA. ESA Abstracts p. 37.
- 1998 Vanderbilt, K.L., K. Lajtha, and F.J. Swanson. Physical and biological processes affecting patterns of N export from small experimental watersheds in the Western Cascades, Oregon EOS (Trans. AGU) 79(45): F320.
- 1997 Lajtha, K., B. Keller, A. Jamil, S. Radan, G. Rusza, C. Postolache, S. Cristofor. The biogeochemistry and bioavailability of trace metals in lakes and wetlands of the Danube Delta, Romania. Journal of Conference Abstracts: Biogeomon 2: 228.

- Lajtha, K., B. Keller, A. Jamil, S. Radan, G. Rusza, C. Postolache, S. Cristofor. The biogeochemistry and bioavailability of trace metals in lakes and wetlands of the Danube Delta, Romania. *ESA Bulletin* 78: 273.
- Whytemare, A., R. Edmonds, J. Aber, K. Lajtha. Influence of excess nitrogen deposition on a white spruce (*Picea glauca*) stand in southern Alaska. *ESA Bulletin* 78: 207.
- Transformations and retention of nitrogen in a coastal forest ecosystem: seasonal constraints. *EOS (Trans. AGU)* 78(46): F221.
- 1996 Vanderbilt, K., K. Lajtha, F. Swanson. Nitrogen losses from experimental watersheds in western Oregon. *ESA Bulletin* 77:454.
- Lajtha, K., B. Seely. Tracing nitrogen retention and nitrogen losses in an urbanized coastal watershed: results from Waquoit Bay, MA. *Chapman Conference Program Abstracts* p. 23.
- 1995 N, P, and heavy metal dynamics in wetlands and lakes of the Danube Delta, Romania. *ESA Bulletin* 76: 354-355.
- Anthropogenic nitrogen inputs to North Atlantic watersheds: how much reaches the rivers? *ESA Bulletin* 76:342. (R. Howarth presenting)
- Application of a ¹⁵N tracer to simulate and track the fate of atmospherically-deposited N in the coastal forests of the Waquoit Bay watershed, Cape Cod, MA. *ESA Bulletin* 76: 386. (B. Seely presenting)
- Assimilative capacity and retention of trace metals in wetlands and lakes of the Danube Delta, Romania. *Society of Wetland Scientists, 16th Annual Meeting, Boston, MA.* (B. Keller presenting)
- 1993 Coupling of watersheds and coastal waters: nitrogen dynamics and retention in coastal forests of Waquoit Bay, Ma. *ESA Bulletin* 74: 321.
- Coupling of watersheds and coastal waters: nitrogen dynamics and retention in coastal forests of Waquoit Bay, Ma. *12th International Estuarine Research Conference, Hilton Head. Program Abstracts.*
- 1991 Land-Margin Ecosystem Research: Effects of forest uptake and deforestation on nutrient and freshwater inputs to Waquoit Bay, Massachusetts. *11th International Estuarine Research Conference, San Francisco. Program Abstracts* p. 77.
- Ecophysiology and nutrient relations of the saguaro cactus: causes and patterns of decline. *ESA, San Antonio. ESA Bulletin* 72:167-168.
- 1990 Resource-use efficiency in pinyon-juniper communities along an elevational gradient in northern New Mexico. *ESA, Snowbird, Utah. ESA Bulletin* 71:221-222.
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