

CLAUDIA MICHAELA BOOT

Research Scientist II

Central Instrument Facility, Department of Chemistry

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updated: 26 January 2018

EDUCATION

- 2001 – 2007 Ph.D. Department of Ocean Sciences
Advisor: Prof. Phillip Crews (Dept. of Chemistry and Biochemistry)
University of California, Santa Cruz, CA
- 1997 – 1999 B.A. Ecology and Evolutionary Biology
University of Colorado, Boulder, CO
- 1995 – 1997 Undergraduate studies in Biology
University of Puget Sound, Tacoma, WA
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PROFESSIONAL APPOINTMENTS

- 2016 – present Research Scientist II, Department of Chemistry, CSU, Fort Collins, CO
- 2015 – present Affiliate Faculty, Graduate Degree Program in Ecology, CSU, Fort Collins, CO
- 2015 – 2016 Research Associate III, Department of Chemistry, CSU, Fort Collins, CO
- 2012 – 2015 Research Scientist I, Natural Resource Ecology Laboratory, Fort Collins, CO
- 2012 – 2014 Affiliate Scientist, University of Wyoming, Laramie, WY
- 2009 – 2012 Postdoctoral Fellow, NSF Office of Polar Programs, Colorado State University, Fort Collins, CO, and University of California, Santa Barbara, CA
- 2007 – 2009 Postdoctoral Scholar, University of California Santa Barbara, CA
- 2004 – 2007 PhD Candidate, University of California Santa Cruz, CA
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FELLOWSHIPS and AWARDS

- 2016 Certificate of Excellence in Reviewing, *Biogeochemistry*
- 2014 Co-PI, NSF Catalyzing New International Collaborations: US-Switzerland-Australia Site Visits: Expanding and Advancing Black Carbon Research Through New International Collaborations (\$54,000)
- 2013 Co-I, CSU Water Center Grant: Developing scholarly excellence across the aquatic-terrestrial interface: Understanding the hydro-bio-geo-chemistry of extreme events (\$24,900)
- 2009 – 2012 Postdoctoral Fellowship, Office of Polar Programs, National Science Foundation (\$239,000)
- 2011 Warner College of Natural Resources Research Grant, Colorado State University (\$10,000)
- 2007 Dr. Earl and Ethyl Myers Oceanographic Trust Grant, University of California (\$1,500)
- 2006 Graduate Association Travel Grant, University of California (\$800)
- 2006 Journal of Natural Products – Top Ten Most Cited Articles
- 2002 – 2005 Graduate Assistance in Areas of National Need (GAANN) Fellowship, University of California
- 2001 Ocean Sciences Department Fellowship, University of California
- 1998 – 1999 Chancellor's Diversity Scholarship, University of Colorado
- 1995 – 1996 President's Scholarship, University of Puget Sound

PEER REVIEWED PUBLICATIONS

- Schaeffer, SM, **CM Boot**, D. Roux-Michollet, J Schimel. *In press*. Soil carbon and nitrogen dynamics through the summer drought in a California annual grassland. *Soil Biology and Biochemistry*.
- Carrillo, Y, C Bell, A Koyama, **CM Boot**, M Wallenstein, E Pendall. *In press*. Plant traits, stoichiometry, and microbes as drivers of decomposition in the rhizosphere in a temperate grassland. *Journal of Ecology*.
- Butnor, J, K Johnsen, S Zarnoch, **CM Boot**, T Stokes, J Jackson, L Samuelson, K Heckman, P Anderson, C Gonzalez-Benecke, F Cotrufo. *In press*. Vertical distribution and persistence of soil organic carbon in fire-adapted longleaf pine forests. *Forest Ecology and Management*.
- Angala, S, M McNeil, L Shi, M Joe, H Pham, S Zuberogoitia, J Nigou, **CM Boot**, T Lowary, M Gilleron, M Jackson. *In press*. Biosynthesis of the methylthioxylose capping motif of lipoarabinomannan in *Mycobacterium tuberculosis*. *ACS Chemical Biology*.
- Sheflin, AM, EC Borresen, J Kirkwood, **CM Boot**, AK Whitney, S Lu, RJ Brown, CD Broeckling, EP Ryan, TL Weir. 2017. Dietary Supplementation with rice bran or navy bean alters gut bacterial metabolism in colorectal cancer survivors. *Molecular Nutrition and Food Research* 61(1):1-11, DOI:10.1002/mnfr.201500905.
- Cotrufo, MF, **CM Boot**, D Brogan, ML Haddix, S Kampf, L MacDonald, P Nelson, S Ryan-Burkett, S Schmeer, E Hall. 2016. Redistribution of pyrogenic carbon from hillslopes to stream corridors following a large sub-alpine wildfire. *Global Biogeochemical Cycles* 30, DOI:10.1002/2016GB005467.
- Cotrufo, MF, **CM Boot**, S Abiven, EJ Foster, ML Haddix, M Reisser, CM Wurster, MI Bird, MWI Schmidt. 2016. Toward an accurate quantification of pyrogenic carbon in the environment: An integration of analytical approaches. *Organic Geochemistry* 100:42-50, DOI:10.1016/j.orggeochem.2016.07.007.
- Boot, CM**, EK Hall, K Denef, JS Baron. 2016. Long-term nitrogen amendments alter soil carbon and microbial community properties in a sub-alpine forest ecosystem. *Soil Biology and Biochemistry* 92:211-220.
- Bier, R, E Bernhardt, **CM Boot**, E Graham, E Hall, J Lennon, D Nemergut, B Osborne, CR Gonzalez, J Schimel, M Waldrop, M Wallenstein. 2015. Linking microbial community structure and microbial processes: an empirical and conceptual overview. *FEMS Microbiology Ecology* 91:fiv113, DOI:10.1093/femsec/fiv113.
- Boot, CM**, ML Haddix, K Paustian, MF Cotrufo. 2015. Distribution of black carbon in Ponderosa pine forest floor and soils following the High Park Wildfire. *Biogeosciences* 12:3029-3039, DOI: 10.5194/bg-12-3029-2015.
- Bell, C, Y Carrillo, **CM Boot**, JD Rocca, E Pendall, MD Wallenstein. 2014. Rhizosphere stoichiometry: are C:N:P ratios of plants, soils, and enzymes conserved at the plant species-level. *New Phytologist* 51: 505-517, DOI: 10.1111/nph.12531.
- Cotrufo, MF, MD Wallenstein, **CM Boot**, K Denef, E Paul. 2013. The microbial efficiency-matrix stabilization (MEMS) framework integrates plant litter decomposition with soil organic matter stabilization: Do labile plant inputs form stable soil organic matter? *Global Change Biology* 19(4): 988-995, DOI: 10.1111/gcb.12113.

- Boot, CM**, SM Schaeffer, JP Schimel. 2013. Static bacterial osmolyte pools during seasonal drought in a California grassland. *Soil Biology and Biochemistry* 57: 356-361, DOI:10.1016/j.soilbio.2012.09.005.
- Carbone MS, AP Williams, AR Ambrose, E Bradley, **CM Boot**, TE Dawson, SM Schaeffer, JP Schimel, CJ Still. 2012. Cloud shading and fog drip influence the metabolism of a coastal pine ecosystem. *Global Change Biology* 19(2), 484-497. DOI: 10.1111/gcb.12054.
- Boot, CM**. Microbial response to drying and rewetting: osmotic and matric effects. 2011. *Plant and Soil* 348: 99-102, DOI 10.1007/s11104-011-0958-9.
- Carbone, MS, CJ Still, AM Ambrose, TE Dawson, AP Williams, **CM Boot**, SM Schaeffer, JP Schimel. 2011. Seasonal and episodic moisture controls on plant and microbial contributions to soil respiration. *Oecologia*. DOI 10.1007/s00442-011-1975-3.
- Boot, CM**, NC Gassner, JE Compton, K Tenney, CM Tamble, RS Lokey, TR Holman, P Crews. 2007. Pinpointing pseurotins from a marine-derived *Aspergillus fumigatus* as tools for chemical genetics using a synthetic lethality yeast screen. *Journal of Natural Products* 70: 1672-1675.
- Boot, CM**, T Amagata, K Tenney, JE Compton, H Pietraszkiewicz, FA Valeriote, P Crews. 2007. Four classes of structurally unusual peptides from two marine-derived fungi. *Tetrahedron* 63: 9903-9914.
- Boot, CM**, K Tenney; FA Valeriote, P Crews. 2006. Highly N-methylated linear peptides produced by an atypical *Acremonium* sp. *Journal of Natural Products* 69: 83-92.

TEACHING

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| 2016 | Co-organizer and Instructor, Advanced Topics in NMR and Mass Spectrometry, Central Instrument Facility, CSU |
| 2015 | Co-organizer and Instructor in the Summer Soil Institute, CSU |
| 2015 | Co-instructor, Foundations of Ecosystem Science, CSU (ESS 211) |
| 2014 | Co-instructor, Soil Plant Nutrient Relations, CSU (SOCR 540) |
| 2012 – 2016 | Workshop Leader, CSU, Collecting and Managing Data, Skills for Undergraduate Participation in Ecological Research (SUPER) |
| 2006 | Teaching Assistant, UCSC, Biochemistry (BIOL 100) |
| | Teaching Assistant, UCSC, Organic Chemistry (CHEM 108B) |
| 2001 | Teaching Assistant, UCSC, Life in the Sea (OCEA 80A) |
| | Teaching Assistant, UCSC, Genetics (BIOL 105) |

SERVICE

- Mentoring—Timothy Weinmann, GDPE Master's student Co-Advisor (2017-present); Kaylen Obray, Chemistry Master's student and Bruker NMR Validation Scholar (2016-present); Laurel Lynch, PhD student committee GDPE (2014-present); Timothy Fegal, Master's student committee GDPE (2013-2016); Lisa Windom, ESS undergraduate SUPER student (2012-2014)
- Editorial and Review—*Proposal Review*: NSF DEB Ecosystem Science pre-proposal (April 2017), DOE EMSL general science them (Oct 2016), NSF Arctic Natural Sciences (March 2016), ESA Sulzman award (2013-2015), DOE EMSL general science theme (May 2015), NASA ROSES Arctic-Boreal Carbon Cycle (October 2013); *Journal Editor*: *Plant and Soil* (2010 – 2014); *Manuscript Review*: Biogeochemistry, Ecology, Soil Biology and Biochemistry, *Global Change Biology*, International Society of Microbial Ecology (ISME) Journal, *Journal of Geophysical Research*, *Plant and Soil*, *Tetrahedron*, and *Journal of Natural Products*

K-12 Outreach—Designated Science Line Responder: Answer online questions for middle and high school students (2009 – 2015); 'Soil Science' Talk for 8th grade field trip to University of California Sedgwick Reserve (2009)

Undergraduate Outreach—Co-Founder (2013) and workshop leader (2013-2015) 'Skills for Undergraduate Participation in Ecological Research (SUPER)' training program at NREL <http://www.nrel.colostate.edu/projects/super/>; 'How to Use Power Point' workshop for ACCESS (community college to university transitional program, summers, 2003 – 2007); Research talks at Cabrillo Community College, Aptos, CA, and Monterey Peninsula College, Monterey, CA; for ACCESS program (summers, 2002 – 2003); Volunteer Mentor, Minorities in Biomedical Research Program, UCSC (summers, 2001 – 2007)

University Service—representative on Chemistry Communications Committee (2015-present), chair of NREL Strategic Planning Committee (2015), reviewer for NREL Scholarship Panel (2011-2015), Seminar Coordinator NREL New Voices in Ecology (2011), Graduate Student Representative on Diving Control Board, UCSC (2002 – 2007), Organizing Committee for First Annual Ocean Sciences Graduate Student Symposium, UCSC (2005 – 2006)

SYNERGISTIC ACTIVITIES

Conference Session Organizer

Practical Applications of NMR in Industry Conference. NMR Validation Workshop. Hilton Head Island, SC. February 24th 2017. Co-organizers: Kaylen Obay, Kim Colson, Kristie Adams, Torsten Schoenberger.

American Geophysical Union Chapman Conference. Soil-mediated drivers of coupled biogeochemical and hydrological processes across scales. Biosphere II, Tucson, AZ. October 21st – 24th, 2013. Co-convener: Matthew Wallenstein.

American Geophysical Union. From plant litter decay to soil organic matter formation: the missing nexus. San Francisco, CA. December 4th – 7th, 2012. Co-convener: M. Francesca Cotrufo, Karolien Deneff.

Ecological Society of America. Microbial responses to moisture availability: scaling up from physiology to ecosystem-level processes. Austin, TX. August 8th-12th, 2011. Co-convener: Stephanie N. Kivlin, Bonnie G. Waring, Sean M. Schaeffer.

Workshop Participant (*invited)

Long Term Ecological Research Workshop. Linking aquatic and soil organic matter across ecosystems through characterization of optical properties. Boulder, CO. May 1st – 3rd, 2013. Conveners: Diane McKnight, Rudolf Jaffe

*Heterotrophic Respiration Workshop. Andrews Experimental Forest, Blue River, OR. October 29th – Nov 1st 2012. Conveners: Mark Harmon, Rodrigo Vargas, Ben Bond-Lamberty.

*John Wesley Powell Center for Center for Analysis and Synthesis. The Next Generation of Ecological Indicators: Defining Which Microbial Properties Matter Most to Ecosystem Function and How to Measure Them. Fort Collins, CO. September 3rd-7th, 2012 and May 13th-17th, 2013. Conveners: Ed Hall, Matt Wallenstein and Jay Lennon.

Earth Science Women's Network Career Development Workshop. Skills for Networking and Communication. Madison, WI. June 4th – 6th, 2012.

Media and Popular Press

Panelist on School of Global Environmental Sustainability (SOGES) and Biodiversity Working Group (BWG) Panel: Women in Science: Challenges and Balances (March 2014):

<http://biodiversity.colostate.edu/primack-panel>

Invitee to White House event announcing NSF's family friendly policies (Sept. 2011); Press article published in CSU Today: <http://www.today.colostate.edu/story.aspx?id=6483>

American Geophysical Union Online Video Profile of Younger Scientists (July 2009)

<http://www.facebook.com/media/set/?set=a.126071311600.108597.76531806600>

PRESENTATIONS (*invited; **student advisee**)

Ecological Society of America; Portland, OR. August 6th – 11th, 2017

Poster Presentation: Hillslope connectivity and DOC export from an Arctic catchment. **L Lynch**, T Covino, CM Boot, M Machmuller, M Wallenstein

American Society of Pharmacognosy; Portland, OR. July 29th – August 2nd, 2017

Poster Presentation: Material Validation by NMR: Significance and Implementation. KB Killday, **K Obray**, CM Boot, T Schoenberger, K Adams and KL Colson

Soil Ecology Society; Fort Collins, CO. June 5th – 9th, 2017

Oral Presentation: Advancing the understanding of orgao-mineral interactions: Insights from nano-scale secondary ion mass spectrometry. M Machmuller, C Muller, J Soong, C Hoeschen, CM Boot, F Cotrufo

American Society of Mass Spectrometry; Indianapolis, IN. June 4th – 8th, 2017

Poster Presentation: GCMS and NMR based chemometrics of distillates. MJ Riches, **K Obray**, K Denef, CM Boot, C Rithner

Institute of Cannabis Research; Pueblo, CO. April 28th – 30th, 2017

Oral Presentation: Complementary analytical Approaches for Describing the Molecular Composition of Cannabis Extracts. CM Boot, K Denef, E Bridge, C Rithner

European Geosciences Union; Vienna, Austria. April 23rd – 28th, 2017

Oral Presentation: Pyrogenic carbon redistribution from hillslopes to stream corridors following a large montane wildfire. MF Cotrufo, CM Boot, ML Haddix, S Schmeer, S Kampf, D Brogan, P Nelson, CC Rhoades, S Ryan-Burkett, S Rathburn, EK Hall

Practical Applications of NMR in Industry Conference; Hilton Head, SC. February 20th – 23rd, 2017

Poster Presentation: NMR validation: significance, implementation, and awareness. **K Obray**, CM Boot, K Colson, T Schoenberger, K Adams

American Geophysical Union; San Francisco, CA. December 12th – 16th, 2016

Poster Presentation: A long-term forest fertilization experiment to understand ecosystem responses to atmospheric nitrogen deposition. J Baron, SM Advani, J Allen, CM Boot, K Denef, S Denning, E Hall, JC Moore, H Reuth, M Ryan, E Shaw, D Bowker

American Society of Mass Spectrometry; San Antonio, TX. June 5th – 9th, 2016

Poster Presentation: Electrospray Ionization Analysis of Dextran and Carboxymethylated Dextran. JB Tapia, K Denef, CM Boot, MM Reynolds

American Geophysical Union; San Francisco, CA. Dec 14th – 18th, 2015

Oral Presentation: Differences in dissolved organic matter lability between alpine glaciers and alpine rock glaciers of the American West. EK Hall, **TS Fegal** J Baron, CM Boot

Poster Presentation: Characterizing soil organic carbon recalcitrance in longleaf pine (*Pinus palustris* Mill) stands. JR Butnor, LJ Samuelson, PH Anderson, CA González Benecke, CM Boot, MF Cotrufo, KA Heckman, JA Jackson, KH Johnsen, TA Stokes, and CW Swanston

Soil Organic Matter Meeting; Gottingen, Germany. Sept 20th – 24th, 2015

Oral Presentation: Toward and accurate quantification of truly old SOC: an integration of analytical approaches to estimate pyrogenic carbon. MF Cotrufo, CM Boot, S Abiven, E Foster, Moritz, M Bird, M Schmidt.

Ecological Society of America; Baltimore, MD. Aug 9th – 14th, 2015

Oral Presentation: Microbial community dynamics and relationship with biogeochemical cycling across season in Arctic tundra. CM Boot, A Koyama, K Buckeridge, SM Schaeffer, J Ernakovich, J Schimel, M Wallenstein

*Environmental Molecular Sciences Laboratory; Richland, WA. May 19th, 2015

Soil Science Seminar: Analytical approaches for understanding shifts in organic matter composition driven by environmental change. CM Boot

*Technical University Munich; Freising, Germany. May 7th, 2015

Soil Science Seminar: From Plants to SOM: pathways and controls. MF Cotrufo, CM Boot, J Soong

Hydrology Days, CSU; Fort Collins, CO. March 24th, 2015

Oral Presentation: Transport of black carbon across the soil aquatic interface following wildfire: contributions of short and long-term controls. CM Boot, MF Cotrufo, ML Haddix, S Schmeer, S Kampf, D Brogan, P Nelson, CC Rhoades, S Ryan-Burkett, S Rathburn, EK Hall

American Chemical Society; Denver, CO. March 22nd – 26th, 2015

Oral Presentation: Meta-metabolomics as a systems-level tool for examining shifts in organic matter composition driven by environmental change. CM Boot

American Geophysical Union; San Francisco, CA. December 15th -19th, 2014

Oral Presentation: Transport of black carbon across the terrestrial-aquatic interface following wildfire: contributions of short and long-term controls. CM Boot, MF Cotrufo, ML Haddix, S Schmeer, S Kampf, D Brogan, P Nelson, CC Rhoades, S Ryan-Burkett, S Rathburn, EK Hall

Oral Presentation: Evaluating multiple drivers of soil organic matter lability and structure in a sub-alpine forest ecosystem. E Hall, **TS Fegal**, CM Boot

Poster Presentation: The SUPER program: a research-based undergraduate experience. JG Ernakovich, R Boone, CM Boot, K Denef, JM Lavallee, J Moore and MD Wallenstein.

Natural Resource Ecology Laboratory, CSU; Fort Collins, CO. Nov 20, 2014

Seminar: Molecular biomarkers for integrated belowground metabolism. CM Boot

Goldschmidt Meeting; Sacramento, CA. June 8th-13th, 2014

Poster Presentation: Climate effects on plant and microbial metabolism in grassland soil porewater. CM Boot, MD Wallenstein, E Pendall

European Geophysical Union; Vienna, Austria. April 27th – May 2nd, 2014

Poster Presentation: Black carbon dynamics in soil from the watershed to the microbial scale. MF Cotrufo, CM Boot, K Denef, E Foster, M Haddix, X Jiang, J Soong, C Stewart

- *Front Range Student Ecology Symposium, CSU; Fort Collins, CO. February 19th, 2014
IGNITE!: Integrating organic matter structure with ecosystem function. CM Boot
- American Geophysical Union; San Francisco, CA. Dec 9th – 13th, 2013
Poster: Biogeochemical signatures of glacier and rock glacier outflow in the western United States. **T Fegal**, J Baron, E Hall and CM Boot
Poster: Changing conditions in alpine and sub-alpine lakes. J Baron, E Hall, G Gundersen, A Seback, **L Windom**, R Woodwell, J Heath, CM Boot
- *University of Northern Colorado; Greeley, CO. Nov 21st, 2013
Biology Department Seminar: Assessing the effects of global change on organic matter composition: what does molecular structure tell us? CM Boot
- *University of Wyoming; Laramie, WY. Nov 1st, 2013
Botany Department Seminar: Assessing the effects of global change on organic matter composition: what does molecular structure tell us? CM Boot
- Geological Society of America; Denver, CO. Oct 27th – 30th, 2013
Poster Presentation: Accounting for pyrogenic carbon stocks in the Cache la Poudre watershed following the High Park Fire. CM Boot, ML Haddix, K Paustian, MF Cotrufo
- *American Geophysical Union Chapman Conference. Biosphere II, Tucson, AZ. Oct 21st – 24th, 2013
Oral Presentation: Lability and composition of D(E)OM at the terrestrial aquatic interface in a subalpine forest. CM Boot, E Hall, **L Windom**, JS Baron
- Ecological Society of America; Minneapolis, MN. Aug 12th – 16th, 2013
Oral Presentation: Quantities and qualities: a story of N amendments in a subalpine forest. CM Boot, E Hall, K Denef, JS Baron
Workshop Presentation: Resources for Ecology Education Fair and Share (REEFS). SUPER: Skills for Undergraduate Participation in Ecological Research. CM Boot, JG Ernakovich.
- *American Geophysical Union; San Francisco, CA. Dec 3rd – 9th, 2012
Oral Presentation: Integrating organic matter structure with ecosystem function using advanced analytical chemistry techniques. CM Boot
Oral Presentation: The dual Filter model: labile plant inputs from stable soil organic matter. MF Cotrufo, MD Wallenstein, CM Boot, K Denef, EA Paul
- Channel Islands Symposium; Ventura, CA. Oct 23rd – 26th 2012
Oral Presentation: Dynamic response of forest litter and mineral soil to pulsed water additions. CM Boot, SM Schaeffer, MS Carbone, CJ Still, JP Schimel
- *University of Wisconsin; Madison, WI. Oct 3, 2012
Soil Science Department Seminar: Towards linking soil organic matter with ecosystem function via microbial metabolism. CM Boot
- Ecological Society of America; Portland, OR. Aug 5th -10th, 2012
Oral Presentation: Seasonal and vegetation driven dynamics of dissolved organic matter in Arctic tundra soil. CM Boot, MD Wallenstein, JP Schimel
- American Geophysical Union; San Francisco, CA. Dec 4th-9th, 2011
Poster Presentation: Seasonal changes drive chemical composition of Arctic dissolved organic matter. CM Boot, MD Wallenstein, JP Schimel

Arctic LTER Symposium; Woods Hole, MA. Feb 18th – 20th, 2011

Poster Presentation: Composition of dissolved organic matter in Arctic soils. Claudia M. Boot, Sean M. Schaeffer, Matthew D. Wallenstein, JP Schimel

*Natural Resource Ecology Laboratory, Fort Collins, CO. Jan 21, 2011

NREL Seminar Series: New Voices in Ecology: Views from Early Career Scientists. What is the physiological response of microbes to drought? CM Boot

American Geophysical Union; San Francisco, CA. Dec 13th-17th, 2010

Oral Presentation: Dynamic response of forest litter and mineral soil to pulsed water additions. Claudia M. Boot, Sean M. Schaeffer, Mariah S. Carbone, Christopher J. Still and Joshua P. Schimel

Oral Presentation: Effect of speed and intensity of freezing on microbial C and N cycling in two arctic tundra soils. SM Schaeffer, CM Boot, JP Schimel, S Sistla, D Roux-Michollet

International Society for Microbial Ecology; Seattle, WA. Aug 23rd-27th, 2010

Poster Presentation: What is the physiological response of microbes to drought? CM Boot, SM Schaeffer, AP Doyle, JP Schimel

World Congress of Soil Science; Aug 1st – 6th, 2010

Oral Presentation: The biogeochemistry of drought. JP Schimel, CM Boot, P Holden, D Roux-Michollet, S Parker, SM Schaeffer, K Treseder

European Geophysical Union; Vienna, Austria. May 2nd – 7th, 2010

Poster Presentation: Moisture Pulse and soil respiration dynamic of a bishop pine forest in a Mediterranean type climate. MS Carbone, CM Boot, SM Schaeffer, JP Schimel, CJ Still

State of the Arctic; Miami, FL. Mar 15th-19th, 2010

Poster Presentation: Composition of dissolved organic matter in Arctic soils. CM Boot, SM Schaeffer, MD Wallenstein, JP Schimel

American Geophysical Union; San Francisco, CA. Dec 14th – 18th, 2009

Poster Presentation: Moisture controls on soil respiration sources in a pine forest on Santa Cruz Island, CA. MS Carbone, A Ambrose, CM Boot, TE Dawson, SM Schaeffer, J Schimel, CJ Still, P Williams

Ecological Society of America; Albuquerque, NM. Aug 2nd-7th, 2009

Oral Presentation: Microbial tools for drought survival in a California grassland. Claudia M. Boot, Sean M. Schaeffer, Allen P. Doyle, and Joshua P. Schimel

Oral Presentation: Effects of summertime fog and winter rain on soil carbon and nitrogen dynamics in a Bishop pine forest. SM Schaeffer, MS Carbone, CM Boot, JP Schimel, CJ Still

American Geophysical Union; San Francisco, CA, Dec 14th-19th, 2008

Poster Presentation: Quantification of microbial osmolytes in a drought impacted California grassland. CM Boot, SM Schaeffer, AP Doyle, JP Schimel

12th International Symposium on Marine Natural Products; Queenstown, NZ, Feb 4th – 9th, 2007

Oral Poster Presentation: Comparative analysis of the human solid tumor selectivity of efraptins isolated from an unidentifiable marine-derived fungus. CM Boot, K Tenney, FA Valeriote and P Crews

SIM Annual Meeting and Exhibition; Denver, CO, July 29th – Aug 2nd, 2007

Oral Presentation: Discovering significant biomolecule from marine-derived fungi. P Crews, CM Boot, T Amagata, J Compton

Gordon Research Conference on Marine Natural Products; Ventura, CA, Feb 26th – Mar 3rd, 2006
Poster Presentation: Probing ocean depths for phylogenetically divergent fungi. CM Boot, K Tenney, FA Valeriote, P Crews

American Society of Pharmacognosy; Corvallis, OR, July 23rd – 27th, 2005
Poster Presentation: Highly N-methylated linear peptides produced by an atypical marine sponge-derived strain of Acremonium. CM Boot, K Tenney, FA Valeriote, P Crews

Joseph F. Bunnett Organic Chemistry Symposium; Santa Cruz, CA, May 7th, 2004
Poster Presentation: Antimicrobial metabolites from an atypical marine-derived strain of Acremonium. CM Meents (Boot), FA Valeriote, P Crews

*University of the South Pacific; Department of Chemistry, Suva, Fiji. Sept 9, 2002
Oral Presentation: Microbial communities in marine sponges: current research and future directions. CM Meents (Boot), P Crews

RESEARCH SITES/TRAINING/CERTIFICATIONS

2015	LVWS
2013-2014	Wyoming (PHACE), Colorado (LVWS, and Cache La Poudre (CLP) watershed)
2012	Alaska (Toolik Field station, Institute of Arctic Biology), Wyoming (PHACE), Colorado (Loch Vale watershed (LVWS) in Rocky Mountain National Park)
2011	Alaska (Toolik Field Station, Institute of Arctic Biology), Wyoming (Prairie Heating and Carbon Dioxide Enrichment (PHACE))
2010	Summer Soil Institute, Colorado State University, Fort Collins, CO
2007-2010	Alaska (Toolik Field Station, Institute of Arctic Biology); California (Sedgwick Reserve, Santa Cruz Island Reserve)
2005	Solomon Islands (Guadalcanal), Papua New Guinea (Milne Bay, New Ireland)
2004	California (Monterey Bay), US Virgin Islands (St. Thomas)
2003	Vanuatu (Mele Bay), Papua New Guinea (Milne Bay), US Virgin Islands (St. Thomas)
2002	Vanuatu (Mele Bay), Fiji (Beqa Lagoon)
2002	American Association of Underwater Sciences (AAUS) Scientific Diving Certification
2000	Field Course, Center for Marine Resource Studies, Turks and Caicos Island

CURRENT PROFESSIONAL AFFILIATIONS

American Chemical Society (ACS)
 American Society of Mass Spectrometry (ASMS)
 Ecological Society of America (ESA)
 Earth Science Women's Network (ESWN)
 Colorado Biological Mass Spectrometry Society (CBMSS)
 500 Women Scientists