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EDUCATION

- Ph.D. Biological Sciences, The University of Alabama, Tuscaloosa, AL, May 2002. *Microbial Coupling Between Nitrogen and Iron Cycles: Potential Implications for Nitrate and Iron Biogeochemistry and Metal Mobility in Sedimentary Environments* (Advisor: Eric E. Roden)
- B.S. Wildlife and Fisheries Science, Texas A&M University, College Station, TX, December 1995.

PROFESSIONAL EXPERIENCE

- 2008-Present Assistant Professor, School of Biological Sciences, University of Nebraska-Lincoln (0.6FTE)
- 2008-Present Assistant Professor, Department of Earth and Atmospheric Sciences, University of Nebraska-Lincoln (0.4FTE)
- 2014 Medical Leave
- 2011 Medical Leave
- 2006-2008 Assistant Researcher, Professional Research Series, Department of Plant and Microbial Biology, University of California, Berkeley [Sponsor: Dr. John D. Coates]
- 2002-2006 Postdoctoral Scholar, Department of Plant and Microbial Biology, University of California, Berkeley [Advisor: Dr. John D. Coates]
- 2002 Postdoctoral Scholar, Department of Microbiology, Southern Illinois University, Carbondale [Advisor: Dr. John D. Coates]
- 2001-2002 Graduate Teaching Assistant, Department of Biological Sciences, The University of Alabama, Tuscaloosa
- 1996-2001 Graduate Research Assistant, Department of Biological Sciences, The University of Alabama, Tuscaloosa [Dr. Eric E. Roden]
- 1996 Laboratory and Field Technician, Water Sciences Laboratory, University of Nebraska, Lincoln
- 1994-1995 Undergraduate Research Assistant, Wildlife and Fisheries Science, Texas A&M University, College Station, Department of Wildlife and Fisheries [Advisor: Dr. James B. Cotner]

SPECIALIZED TRAINING

- 2011-2012 Peer Review of Teaching Project, University of Nebraska—Lincoln
- 2009 Microbial Genomics and Metagenomics Workshop, offered by the Department of Energy Joint Genome Institute, Walnut Creek, California
- 2003 International Workshop on Biogeochemical Processes Involving Iron Minerals in Natural Waters, Ascona, Switzerland
- 2001-2002 Teaching Advancement Program, Department of Biological Sciences, The University of Alabama, Tuscaloosa, AL

RESEARCH PUBLICATIONS

[**Publication summary** - 27 publications since 2000; 17 peer-reviewed publications, 1 journal cover, 3 publications receiving national and international press, and 1 article highlighted as *Science* Editor's Choice since arriving at UNL in the Fall of 2008]

‡Undergraduate/Post-baccalaureate Student Contributing Author supervised at UNL

§Graduate Student Contributing Author supervised at UNL

!Following publication number denotes press received for publication

Peer-Reviewed Publications

- 27! Nolan, J. P.§, **K. A. Weber**. Natural uranium contamination in major US aquifers linked to nitrate. 2015. *Environmental Science and Technology Letters*. 2: 215-220. doi:10.1021/acs.estlett.5b00174 *Press coverage
- *Highlighted as Editor's Choice in *Science*; Most downloaded or read in *ES&T Letters* in August 2015 and 2nd most read in last 12 Months
26. Kettler, R. M., D. B. Loope, **K. A. Weber**, P. B. Niles. 2015. Life and liesegang: outcrop-scale microbially-induced diagenetic structures and geochemical self-organization phenomena produced by oxidation of reduced iron. *Astrobiology*. 15: 616-636. doi:10.1089/ast.2015.1305
25. Pan, D.§, R. Watson‡, D. Wang‡, Z. H. Tan‡, D. Snow, **K. A. Weber**. 2014. Correlation between viral production and carbon mineralization under nitrate reducing conditions in aquifer sediment. *The ISME Journal*. 8: 1691-703. doi:10.1038/ismej.2014.38
24. Russo S. E., R. Legge, **K. A. Weber**, E. L. Brodie, K. C. Goldfarb, A. Benson, S. Tan. 2012. Shifts in bacterial community structure in contrasting soils underlying Bornean rain forests: inferences from Phylochip and next-generation sequencing methods. *Soil Biology and Biochemistry*. 55: 48-59. doi:10.1016/j.soilbio.2012.05.021
23. Loope, D. B., R. M. Kettler, **K. A. Weber**, N. L. Hinrichs, and D. T. Burgess. 2012. Rinded Iron-Oxide Concretions: Hallmarks of Altered Siderite Masses of Both Early and Late Diagenetic Origin. *Sedimentology*. 59: 1769–1781. doi:10.1111/j.1365-3091.2012.01325.x
22. Yang, W., **K. A. Weber**, W. L. Silver. 2012. Nitrogen Loss from Soil via Anaerobic Ammonium Oxidation coupled to Iron Reduction. *Nature Geoscience*. 5: 538–541. doi:10.1038/NGEO1530
- 21! **Weber, K. A.**, T. L. Spanbauer‡, D. Wacey, M. R. Kilburn, D. B. Loope, R. M. Kettler. 2012. Biosignatures link microorganisms to iron mineralization in a paleoaquifer. *Geology*. 40: 747-750. doi:10.1130/G33062.1 *Press coverage (*journal cover article*)

20. Byrne-Bailey, K. G., **K. A. Weber**, and John D. Coates. 2012. The draft genome sequence of the anaerobic nitrate-dependent Fe(II) oxidizing bacterium *Pseudogulbenkiania ferrooxidans* strain 2002. *Journal of Bacteriology*. 194: 2400-2401. doi:10.1128/JB.00214-12
19. Li, H., J. Peng, **K. A. Weber**, Y. G. Zhu. 2011. Influence of short-chain fatty acids on the Fe(III)-reducing microbial community structure in rice paddy soil. *Journal of Soils and Sediments*. 11:1234-1242.
18. Van Trump, J. I., K. A. Wrighton, J. C. Thrash, **K. A. Weber**, G. L. Andersen, J. D. Coates. 2011. Humic acid-oxidizing, nitrate-reducing bacteria in agricultural soils. *mBio* 2(4):e00044-11. doi:10.1128/mBio.00044-11.
17. Loope, D. B., R. M. Kettler, **K. A. Weber**. 2011. Morphologic Clues to the Origins of Iron-Oxide-Cemented spheroids, “Boxworks”, and Pipe-like Concretions, Navajo Sandstone of South-Central Utah, USA. *Journal of Geology*. 119:505-520. doi:10.1007/s11368-011-0371-2
16. **Weber, K. A.**, J. C. Thrash, J. I. Van Trump, L. A. Achenbach, J. D. Coates. 2011. Environmental and Taxonomic Bacterial Diversity of Anaerobic Uranium(IV) Bio-Oxidation. *Applied and Environmental Microbiology*. 77:4693-4696. doi:10.1128/AEM.02539-10
15. R. M. Kettler, Loope, D. B., **K. A. Weber**. 2011. Follow the Water: Connecting a CO₂ reservoir and bleached sandstone to iron-rich concretions in the Navajo Sandstone: Reply. *Geology*. 39: e251-e252. doi:10.1130/G32550Y.1
- 14! Loope, D. B., R. M. Kettler, **K. A. Weber**. 2010. Follow the Water: Connecting a CO₂ Reservoir and Bleached Sandstone to Iron-Rich Concretions in the Navajo Sandstone of south-central Utah. *Geology* 38: 999-1002. doi:10.1130/G31213.1 *Press coverage
13. Byrne-Bailey, K. G.*, **K. A. Weber***, A. H. Chair, S. Bose, T. K. Knox, T. Spanbauer‡, O. Chertkov, and John D. Coates. 2010. Completed genome sequence of the iron oxidizing bacterium *Acidovorax ebreus* strain TPSY. *Journal of Bacteriology*. 192: 1475-1476. doi:10.1128/JB.01449-09 *These authors contributed equally to this work and have been placed in alphabetical order.
12. Sun, Y., R. L. Gustavson, N. Ali, **K. A. Weber**, L. L. Westphal, and J. D. Coates. 2009. Behavioral response of dissimilatory perchlorate-reducing bacteria to different electron acceptors. *Applied Microbiology and Biotechnology*. 84:955-963. doi:10.1007/s00253-009-2051-3
11. **Weber, K. A.**, D. B. Hedrick, A. D. Peacock, J. C. Thrash, D. C. White, L. A. Achenbach, J. D. Coates. 2009. Physiological and taxonomic description of the novel autotrophic, metal oxidizing bacterium, *Pseudogulbenkiania* sp. strain 2002. *Applied Microbiology and Biotechnology*. 83:555–565. doi:10.1007/s00253-009-1934-7

Prior to arrival at UNL 2001-2008

10. Wrighton, K. C., P. Agbo, F. Warnecke, **K. A. Weber**, E. L. Brodie, T. Z. DeSantis, P. Hugenholtz, G. L. Andersen, J. D. Coates. 2008. A Novel Ecological Role of the Firmicutes Identified in Thermophilic Fuel Cells. *The ISME Journal*. 2, 1146–1156. doi: 10.1038/ismej.2008.48
9. Pollock, J., **K. A. Weber**, J. Lack, L. A. Achenbach, M. Mormile, and J. D. Coates. 2007. Alkaline iron(III) reduction by a novel alkaliphilic, halotolerant, *Bacillus* sp. isolated from salt flat sediments of Soap Lake. *Applied Microbiology and Biotechnology*. 77, 927-934. doi:10.1007/s00253-007-1220-5

8. Thrash, J. C., J. I. Van Trump, **K. A. Weber**, E. Miller, L. A. Achenbach, J. D. Coates. 2007. Electrochemical stimulation of microbial perchlorate reduction. *Environmental Science and Technology*. 41, 1740-1746. doi:10.1021/es062772m
7. **Weber, K. A.**, L. A. Achenbach, and J. D. Coates. 2006. Microbes Pumping Iron: Anaerobic Microbial Iron Oxidation and Reduction. *Nature Reviews Microbiology*. 4, 752-764. doi:10.1038/nrmicro1490
6. **Weber, K.A.**, J. L. Pollock, K.A. Cole, L.A. Achenbach, J.D. Coates. 2006. Nitrate-Dependent Fe(II) Oxidation by a Novel, Lithoautotrophic, Betaproteobacterium, Strain 2002. *Applied and Environmental Microbiology*. 72(1) 686-694. doi: 10.1128/AEM.72.1.686-694.2006
5. **Weber, K. A.**, M.M. Urrutia, P. F. Churchill, R. K. Kukkadapu, and E. E. Roden. 2006. Anaerobic Redox Cycling of Iron by Freshwater Sediment Microorganisms. *Environmental Microbiology*. 8(1), 100-113. doi: 10.1111/j.1462-2920.2005.00873.x
4. **Weber, K. A.**, F. W. Picardal, E. E. Roden. 2001. Microbially Catalyzed Nitrate-Dependent Oxidation of Biogenic Solid-Phase Fe(II) Compounds. *Environmental Science and Technology*. 35(8), 1644-1650. doi: 10.1021/es0016598

Book Chapters and Reviews

3. **Weber, K. A.** and J. D. Coates. 2007. Microbially-Mediated Anaerobic Iron(II) Oxidation at Circumneutral pH. In *Manual of Environmental Microbiology*. Edited by C. J. Hurst, R. L. Crawford, J. L. Garland, D. A. Lipson, A. L. Mills, L. D. Stetzenbach. ASM Press. Section 94.
2. **Weber, K. A.**, J. L. Greenwood, and S. N. Francoeur. 2001. Substratum-Associated Microbiota. *Water Environment Research*. 73(5) 44 pp.
1. Francoeur, S. N., and **K. A. Weber**. 2000. Substratum-Associated Microbiota. *Water Environment Research*. 72(5) 58 pp.

Manuscripts in Review, Revision, or Preparation

- Pan, D.§, K. H. Williams, M. Robbins, **K. A. Weber**. Influx of dissolved oxygen stimulates uranium immobilization and virus production in a reduced aquifer. (*in review Environmental Science and Technology*)
- Weber, K. A.**, O. Healy‡, A. Heithoff, J. Nolan§, T. Spanbauer‡, and D. Snow. Nitrate stimulated Uranium Mobilization in Groundwater. (*in preparation for Frontiers Microbiology*)
- Pan, D.§, J. Nolan§, K. H. Williams, **K. A. Weber**. Abundance and distribution of viruses in an alluvial aquifer in the Colorado River floodplain. (*in preparation for Frontiers in Microbiology*)
- Healy, O§. A. Heithoff, J. Soucek‡, G. Hollis‡, B. LaMere‡, W. Yang, W. Silver, and D. Pan§, **K. A. Weber**. Autotrophic, Anaerobic Iron and Nitrate Reduction by the Moderate Acidophile *Geobacter* sp. FeAm09 (*in preparation for Applied and Environmental Microbiology*)
- Tan, Z.H. §, **K. A. Weber**. Adsorption of Heavy Metals to *Escherichia coli* bacteriophage T4 (*in preparation for Environmental Science and Technology Letters*)

JOURNAL COVER

Cover image. Microbial Fossils. 2012. *Geology*. 40:(8)cover. Feature article. **Weber, K. A.**, T. L. Spanbauer[‡], D. Wacey, M. R. Kilburn, D. B. Loope. R. M. Kettler. 2012. Biosignatures link microorganisms to iron mineralization in a paleoaquifer. *Geology*. 40: 747-750. 10.1130/G33062.1

GRANTS AND SUPPORT

[**Grant support summary:** since arriving at UNL in 2008 grant support totals ~\$2M with ~\$1M direct/indirect to KAW as a PI or Co-PI, Total Awarded over career ~\$3.75M]

Active Grants Awarded

Nitrate Mediated Mobilization of Naturally Occurring Uranium in Groundwater, Department of Interior, United States Geological Survey, National Institute for Water Resources 104(g) Program, *Role: PI* (Total Award: \$467,500; FY 9/1/2014-8/30/2017), Co-PI, Daniel Snow, School of Natural Resources, UNL; Co-PI Kate Campbell, United States Geological Survey National Research Program, Boulder, CO

Conversion of CO₂ and carbonates to methane and (bio)isoprene, Nebraska Center for Energy Sciences Research, *Role: Co-PI*, (Total Award \$202,994; FY 1/2014-12/2015), in collaboration with Nicole Buan-Murphy (PI), Department of Biochemistry, UNL

Production of bioisoprene from wastewater, Water Environment Research Foundation, *Role: Co-PI*, (Total Award \$197,664; FY 3/2014-2/2016), in collaboration with Nicole Buan-Murphy (PI), Department of Biochemistry, UNL

Completed Grants Awarded at UNL

Iron-dependent anaerobic oxidation of ammonium (Fellowship, Healy). NASA Nebraska Space Grant. *Role: PI* (\$5,000 Total Award; FY 9/1/2014-5/31/2015), Graduate Fellowship Recipient Olivia M. Healy, Ph.D. student Microbiology and Molecular Biology Graduate Program, School of Biological Sciences

Nitrate mediated mobilization of naturally occurring Uranium in groundwater, UNL Research Council, Seed Grant, *Role: PI*, \$10,000. (Total Award \$10,000; FY 1/1/2014-12/31/2014)

Collaborative Research: Feammox: A new pathway in the terrestrial nitrogen cycle. National Science Foundation, Ecosystem Sciences Program, Biosciences Directorate, *Role: PI* (Total Award \$930,635; \$188,677 direct/indirect to UNL; FY 5/2009-4/2014), in collaboration with Whendee Silver (*Lead PI*), Dept. of Environmental Science, Policy, and Management, UCB

REU: Collaborative Research: Feammox: A new pathway in the terrestrial nitrogen cycle. Ecosystem Sciences, National Science Foundation, *Role: PI* (\$6,999 direct/indirect to UNL; FY 5/2010-4/2011)

REU: Collaborative Research: Feammox: A new pathway in the terrestrial nitrogen cycle. Ecosystem Sciences, National Science Foundation, *Role: PI* (\$7,525 direct/indirect to UNL; FY 5/2011-4/2014)

Viral infection of subsurface microorganisms and metal/radionuclide transport. Department of Energy, Environmental Remediation Sciences Program, Climate and Environmental Sciences Division, *Role: PI* (\$150,000 Total Award; FY 7/1/2010-6/30/2013), Co-Investigator Yusong

Li, Department of Civil Engineering, UNL, Co-Investigator Kelly S. Bender, Department of Microbiology, Southern Illinois University

Viruses as an Indicator of Carbon Flux (Fellowship, Pan). NASA Nebraska Space Grant. *Role: PI* (\$3,500 Total Award; FY 9/1/2012-5/31/2012), Graduate Fellowship Recipient Donald Pan, Ph.D. student Microbiology and Molecular Biology Graduate Program, School of Biological Sciences

Nitrate stimulated oxidative dissolution of U(IV) bearing minerals leading to U mobility in Nebraska groundwater, Department of Interior, United States Geological Survey, National Institute for Water Resources 104(b)Program, *Role: PI* (Total Award: \$60,000; FY 3/2009-6/15/2010), Co-PI, Daniel Snow, School of Natural Resources, UNL

Viral facilitated contaminant metal transport. University of Nebraska, Lincoln, Research Council Interdisciplinary Research Grant. *Role: PI* (Total Award: \$19,962; FY 1/2009-12/2009) Yusong Li, Co-PI. Department of Civil Engineering, UNL.

Biosignatures in spheroidal iron oxide-rich concretions: An analogue for life on Mars. Australian Microscopy and Microanalysis Research Facility, NanoSIMS analysis time September 14th-19th, 2009. Microscopy time.

Joint Lecturer in the Stout Seminar Series and Microbiology Seminar Series, Dr. David Emerson, University of Nebraska, Lincoln, Research Council Visiting Scholar Grant. (Fall 2009, \$800), Co-Applicant, David Loope, Department of Geosciences, UNL.

Grants Awarded Prior to arrival at UNL (Total Awarded: ~\$1,677,000)

Functional Role of Infective Viral Particles on Metal Reduction, Department of Energy, Environmental Remediation Sciences Program. Role: Co-Investigator/Developed and Authored; John D. Coates, PI; Co-Investigator, Laurie A. Achenbach, Co-Investigator Kelly Bender (Total Award \$150,000; FY 5/2007-4/2009)

Anaerobic Bio-oxidation of Uraninite (U(IV)). Department of Energy, Environmental Remediation Sciences Program. Role: Co-PI /Author; John D. Coates, PI; Co-Investigator, Laurie A. Achenbach (Total Award \$800,000; FY 3/2007-12/2008)

Anaerobic U(IV) Bio-oxidation and the Resultant Remobilization of Uranium in Contaminated Sediments. Department of Energy, Natural and Accelerated Bioremediation Program. Role: Author; John D. Coates, PI; Co-Investigator, Laurie A. Achenbach, (Total Award \$725,000; FY 2003-2006)

The University of Alabama Student Activity Research and Travel Committee/The University of Alabama, Travel Grant (2001, \$1,500 to KAW)

The University of Alabama Graduate School Travel Grant/The University of Alabama Graduate School Travel Grant (1998-2000, \$600 to KAW)

INVITED SEMINARS

[Invited seminar/presentation summary - 20 invited seminars since 2003; 17 since arriving at UNL in the Fall of 2008]

‡Undergraduate/Post-baccalaureate Student Contributing Author supervised at UNL

§Graduate Student Contributing Author supervised at UNL

20. **Weber, K. A.** Nitrate and Metal Biogeochemical Cycling: What do viruses have to do with it? Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, China, March 26, 2015.
19. **Weber, K. A.** Mobility of naturally occurring uranium in aquifers: lessons from the lab and the field. Nebraska Department of Environmental Quality, Mobilization of Uranium & Selenium in Aquifers Workshop, Lincoln, NE, December, 3, 2014
18. **Weber, K. A.** Subsurface Biogeochemistry: What do viruses have to do with it? MicroSeminar, <https://microseminar.wordpress.com>, August 29, 2014. (online invitation only seminar series with recorded seminar on YouTube, to date 125 views)
17. **Weber, K. A.** and M. Stange. Nitrate and Uranium in Drinking Water. Water Seminar Series, Nebraska Water Center, part of the Robert B. Daugherty Water for Food Institute, University of Nebraska—Lincoln, Lincoln, NE, April, 9, 2014.
16. **Weber, K. A.** Soil Microbial Community Structure and Function. EPSCoR Plant-Soil-Microbe Workshop. University of Nebraska—Lincoln, Lincoln, NE, March 13, 2014.
15. **Weber, K. A.** Production of Viral Particles in Response to Biostimulation. Lawrence Berkeley National Laboratory, Rifle Science Community Teleconference, September, 10, 2013.
14. **Weber, K. A.** The Role of Nitrate in the Mobilization of Naturally Occurring Uranium in Groundwater. Department of Health and Human Services, State of Nebraska, Annual Workshop, Lincoln, NE August 15, 2013.
13. **Weber, K.A.** Nitrate Stimulated Oxidative Dissolution of U(IV) Bearing Minerals Leading to U Mobility in Nebraska Groundwater. Department of Environmental Quality, State of Nebraska, Lincoln, NE, January 26, 2012. (*2012 Water Center Impact Award Seminar*)
12. **Weber, K.A.** Metal Biogeochemistry and Mobility: What do viruses have to do with it? University of Nebraska, Lincoln, Microbiology and Molecular Biology Seminar Series, October 1, 2010.
11. **Weber, K.A.** Microbes Rock: Microbially-Mediated Iron Biogeochemistry. Southern Illinois University, Carbondale, IL, Department of Microbiology, April 23, 2010 (*student invitee*)
10. **Weber, K.A.** Microbes Rock: Microbially-Mediated Metal Redox Cycling. University of Nebraska—Omaha, Omaha, NE, Biology Department, March 24, 2010.
9. **Weber, K.A.** Anaerobic Microbial Metal Oxidation: A Role in Metal Biogeochemistry. University of Iowa, Iowa City, Department of Civil and Environmental Engineering, Environmental Engineering and Science Seminar Series, April 10, 2009.
8. **Weber, K. A.** Microbially-Mediated Anaerobic Metal/Radionuclide Redox Cycling. Environmental and Water Resources Engineering Seminar Series, Department of Civil Engineering, University of Nebraska, Lincoln, March 6, 2009.
7. **Weber, K.A.** Microbially Mediated Metal/Radionuclide Redox Cycling. University of Nebraska, Lincoln, Biotechnology Seminar Series, February 4, 2009.
6. **Weber, K.A.** Ferrous Wheel and the Role of Nitrate. University of Nebraska, Lincoln, Ecology and Evolution Seminar Series, October 10, 2008.

5. **Weber, K.A.** Ferrous Wheel and the Role of Nitrate: Implications to metal mobility. Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, China, November 17, 2008.
4. **Weber, K.A.** Rock and Roll: Anaerobic, Nitrate-Dependent Metal Oxidation. University of Nebraska, Lincoln, Department of Geosciences Seminar Series, September 9, 2008.
3. **Weber, K.A.** Anaerobic, Nitrate-Dependent Metal Oxidation. University of California, Berkeley, Microbial Community and Ecology Seminar Series, March 14, 2008.
2. **Weber, K. A.** The Ferrous Wheel and the Role of Nitrate. University of California, Berkeley, Mary Firestone Laboratory Presentation, November, 3, 2006.
1. **Weber, K. A.** Influence of Nitrate on Iron Redox Cycling and Heavy Metal/Radiounuclide Immobilization. University of California, Berkeley, Jillian Banfield Laboratory Presentation, June 24, 2003.

INVITED PRESENTATIONS AT LOCAL, REGIONAL, NATIONAL, AND INTERNATIONAL SYMPOSIUMS, CONFERENCES, AND WORKSHOPS

[Invited seminar/presentation summary - 12 invited presentations since 2003; 10 regional, national, and international invited conference/workshop seminars including 1 *keynote* presentation at an international conference and 1 *keynote* presentation at a local symposium since arriving at UNL in the Fall of 2008]

12. **Weber, K. A.** Uranium mobilization in groundwater and the role of nitrate. Nebraska Association of Resource Districts Annual Conference. Kearney, NE, September 29, 2015.
11. **Weber, K. A.** Microbial oxidative dissolution of solid-phase minerals. Workshop of US NSF-China NNSF Collaborative Research on Microbe-Mineral Interaction: Microbial Extracellular Electron Transfer with Minerals as Electron Sources as Sinks, Peking University, Beijing, China, March 23-25, 2015.
10. **Weber, K. A.,** T. L. Spanbauer, D. Wacey, M. R. Kilburn, D. B. Loope, and R. M. Kettler. Microbial Iron(II) Oxidation: Evidence of iron biomineralization in the rock record. North Central Geological Society of America Meeting, Lincoln, NE, April 24, 2014.
9. **Weber, K.A.,** W. Yang, and W. Silver. Rock and the Role of Nitrogen in the Iron Cycle. Ecological Society of America, Portland, OR, August 5-10, 2012.
8. **Weber, K.A.,** O. Healy‡, T. Spanbauer‡, and D. Snow. Microbially catalyzed anaerobic metal oxidation in shallow subsurface sediments. American Chemical Society Spring Meeting, San Diego, CA, March 25-29, 2012.
7. **Weber, K.A.,** O. Healy‡, T. Spanbauer‡, and D. Snow. Microbially catalyzed nitrate-dependent metal/radionuclide oxidation in shallow subsurface sediments. American Geophysical Union Fall Meeting, San Francisco, CA, December 5-9, 2011.
6. **Weber, K.A.** Microbial Iron Oxidation in Sedimentary Environments. Iron in Coastal Streams Workshop. University of North Carolina, Charlotte, June 13, 2011.
5. **Weber, K.A.** *Keynote*: Microbially-Mediated Iron Biogeochemistry. (Keynote in the Iron Geomicrobiology Session), Goldschmidt Conference, Knoxville, TN, June 13-18, 2010.

4. **Weber, K.A.** Ferrous Wheel and the Role of Nitrate: Implications to metal mobility. First Annual Symposium on Urban Environmental Technology, Institute of Urban Environment, Xiamen, China, November 20, 2008.
3. **Weber, K.A.** *Keynote*. Rock and Roll: Anaerobic Microbially Mediated Metal Redox Cycling. Afternoon Microbiology Symposium, University of Nebraska, Lincoln, August 18, 2008.
2. **Weber, K.A.**, E. J. Miller, B. Wintle, D. Saidou, L. A. Achenbach, J. D. Coates. Anaerobic Fe(II) Bio-Oxidation in Sedimentary Environments. The 232nd ACS National Meeting, San Francisco, CA, September 10-14, 2006.
1. **Weber, K.A.** and E.E. Roden. Influence of Nitrate on Iron Redox Cycling and Mineralogy in Freshwater Sediments. The Clay Minerals Society 40th Annual Meeting, Athens, GA. June 7-12, 2003.

CONTRIBUTED PRESENTATIONS

[Contributed oral and poster presentations summary - 107 contributed presentations since 1998; 63 contributed presentations since arriving at UNL in the Fall of 2008; 4 graduate students supervised at UNL receiving a combined 7 poster awards at local, regional, national, and international meetings]

*Presenting Author

‡Undergraduate/Post-baccalaureate Student Contributing Author supervised at UNL

§Graduate Student Contributing Author supervised at UNL

2015

107. Nolan, J. §*, D. Pan§, O. Healy§, M. Stange, **K. A. Weber**. Geogenic Aqueous Uranium in an Alluvial Aquifer. Goldschmidt. August 16-21, 2015. Prague, Czech Republic.
106. Healy, O. M. §*, J. Soucek‡, A. Heithoff, B. LaMere‡, D.Pan§, G. Hollis‡, W. H. Yang, W. L. Silver, and **K. A. Weber**. A Description of an Acidophilic, Fe Reducer, *Geobacter* sp. FeAm09. Biology Graduate Student Association Poster Symposium. April 24, 2015. Lincoln, NE.
105. Healy, O. M. §*, J. Soucek‡, A. Heithoff, B. LaMere‡, D.Pan§, G. Hollis‡, W. H. Yang, W. L. Silver, and **K. A. Weber**. A Description of an Acidophilic, Fe Reducer, *Geobacter* sp. FeAm09. American Society for Microbiology Missouri and Missouri Valley Branch Meeting. March 26-28, 2015. Lincoln, NE.
104. Pan, D.P. §*, Z. H. Tan§, K. H. Williams, M. Robbins, N. Kananizadeh, J. Nolan§, Y. Li, and **K. A. Weber**. Viral Influence on Subsurface Biogeochemical Cycling and Contaminant Mobility. 249th American Chemical Society National Meeting. Denver, Colorado, March, 2015. (*D. Pan invited oral presentation*)
103. Healy, O. M. §*, J. Soucek‡, A. Heithoff, B. LaMere‡, D.Pan§, G. Hollis‡, W. H. Yang, W. L. Silver, and **K. A. Weber**. A Description of an Acidophilic, Fe Reducer, *Geobacter* sp. FeAm09. Oral presentation at the Nebraska Academy of Sciences. April 17. Lincoln, NE.
102. Jung, S. ‡*, D. Pan§, & **K. A. Weber**. Fluorescently labeled virus tracer method for simultaneous measurement of viral production and decay while maintaining geochemical conditions. At UNL Spring Research Fair, Lincoln, Nebraska, April, 2015.

2014

101. Healy, O.M. §*, J. Souček‡, A. Heithoff, B. LaMere‡, D. Pan§, G. Hollis‡, W.H. Yang, W.L. Silver, and **K.A. Weber**. A Description of an Acidophilic, Iron Reducer, *Geobacter* sp. FeAm09 Isolated from Tropical Soils. American Geophysical Union: Fall Meeting. San Francisco, CA. December 2014. (*Awarded American Geophysical Union Travel Grant, O. Healy*)
100. Pan, D. §*, K. H. Williams, M. Robbins and **K. A. Weber**. Redox Fluctuation Influences Viral Abundance in the Reduced Zone of a Shallow Alluvial Aquifer in Rifle, CO. At American Geophysical Union Fall Meeting, San Francisco, CA, December, 2014.
99. **Weber, K. A.***, O. M. Healy§, T. L. Spanbauer‡, J. Nolan, D. Snow. Nitrate Mediated Uranium(IV) Oxidation in Shallow Subsurface Sediments. Geological Society of America Annual Meeting, Vancouver, BC, Canada, October 19-22, 2014.
98. **Weber, K. A.*** and J. Nolan. Uranium Contamination in Major US Aquifers: A Correlation Between Nitrate and Uranium, Geological Society of America Annual Meeting, Vancouver, BC, Canada, October 19-22, 2014.
97. Loope, D. B.*, R. M. Kettler, **K. A. Weber**. Water Table Controls on the Morphology of Iron-Oxide Concretions in the Navajo Sandstone of Southern Utah. Geological Society of America Annual Meeting, Vancouver, BC, Canada, October 19-22, 2014.
96. R. M. Kettler*, Y. He, S. Ke, F. Z. Teng, D. B. Loope, **K. A. Weber**. Iron Isotope Evidence for Siderite Precursors to Iron Oxide Concretions from the Navajo Sandstone, Utah, Geological Society of America Annual Meeting, Vancouver, BC, Canada, October 19-22, 2014.
95. **Weber, K. A.***, D. Pan§, Z. H. Tan‡, D. Wang‡, K. H. Williams, M. Robbins, D. D. Snow, N. Kanazadeh, Y. Li. Influence of Viruses on Terrestrial Subsurface Biogeochemical Cycling and Heavy Metal Transport. Ninth International Symposium on Subsurface Microbiology, Pacific Grove, CA, October 5-10, 2014.
94. Pan, D. §*, K. H. Williams, R. Watson‡, D. Wang‡, M. Robbins, Z. H. Tan‡, D. Snow, **K. A. Weber**. Viral influence on terrestrial subsurface carbon biogeochemical cycling. International Symposium for Microbial Ecology 15, Seoul, South Korea, August, 2014. (*Awarded ISME15 Travel Grant, D. Pan*)
93. **Weber, K. A.***, D. Pan§, Z. H. Tan‡, D. Wang‡, K. H. Williams, M. Robbins, D. Snow., N. Kanazadeh, Y. Li. Viral Influence on Subsurface Biogeochemical Cycling and Heavy Metal Transport. Goldschmidt, Sacramento, CA. June 8-13, 2014.
92. Nolan, J. §*, O. M. Healy§, T. Spanbauer‡, A. Heithoff, D. Pan§, D. Snow, **K. A. Weber**. Correlation Between Nitrate and Naturally Occurring Uranium Contamination in Two Major US Aquifers: Potential for Nitrate Driven U Contamination of Groundwater. Goldschmidt, Sacramento, CA. June 8-13, 2014.
91. Healy, O.M. §*, J. Souček‡, A. Heithoff‡, B. LaMere‡, D. Pan§, G. Hollis‡, W.H. Yang, W.L. Silver, and **K.A. Weber**. Characterization of the Acidophilic, Iron Reducer, *Geobacter* sp. FeAm09. Goldschmidt, Sacramento, CA. June 8-13, 2014.
90. Pan, D. §*, K. H. Williams, R. Watson‡, D. Wang‡, M. Robbins, Z. H. Tan‡, D. D. Snow, and **K. A. Weber**. Viral Influence on Terrestrial Subsurface Carbon Biogeochemical

Cycling. American Society for Microbiology 114th General Meeting, Boston, MA, May 17-20, 2014.

89. Healy, O. M. §*, J. Souček‡, A. Heithoff, B. LaMere‡, D. Pan§, G. Hollis‡, W.H. Yang, W.L. Silver, and K.A. Weber. Characterization of the Acidophilic, Iron Reducer, *Geobacter* sp. FeAm09. UNL School of Biological Sciences Graduate Symposium, Lincoln, NE, April, 2014. June 2014. (*1st place for Best Poster, O. Healy*)
88. Pan, D. §*, K. H. Williams, R. Watson‡, D. Wang‡, M. Robbins, Z. H. Tan‡, D. D. Snow, and **K. A. Weber**. Viral Influence on Terrestrial Subsurface Carbon Biogeochemical Cycling. At UNL School of Biological Sciences Graduate Symposium, Lincoln, NE, April, 2014. (*2nd place for Best Poster, D. Pan*)
87. Z. H. Tan§*, N. Kananizadeh, Y. Li, **K. A. Weber**. Biosorption of Heavy Metals by a Model Bacterial Virus, *Escherichia coli* bacteriophage T4. UNL School of Biological Sciences Graduate Symposium, Lincoln, NE, April, 2014.
86. Nolan, J.§*, O. M. Healy§, T. L. Spanbauer‡, A. Heithoff, D. Pan*§, D. Snow, **K. A. Weber**. Correlation Between Nitrate and Naturally Occurring Uranium Contamination in Two Major US Aquifers: Potential for Nitrate Driven U Contamination of Groundwater. North Central Geological Society of America Meeting, Lincoln, NE, April 24, 2014.
85. Z. H. Tan*§, N. Kananizadeh, Y. Li, **K. A. Weber**. Biosorption of Heavy Metals by a Model Bacterial Virus, *Escherichia coli* bacteriophage T4. North Central Geological Society of America Meeting, Lincoln, NE, April 24, 2014.
84. O. M. Healy*§, J. Souček‡, A. Heithoff, B. Lamere‡, D. Pan§, G. Hollis‡, **K. A. Weber**. Characterization of the Acidophilic Iron Reducer, *Geobacter* Sp., FeAm09. North Central Geological Society of America Meeting, Lincoln, NE, April 24, 2014.
83. Pan, D.*§, K. H. Williams, R. Watson‡, D. Wang‡, Z. H. Tan‡, D. Snow, M. J. Robbins, **K. A. Weber**. Viral Influence on Terrestrial Subsurface Carbon Biogeochemical Cycling. North Central Geological Society of America Meeting, Lincoln, NE, April 24, 2014.

2013

82. Loope, D. B.*, R. M. Kettler, **K. A. Weber**, M. Al Kuisi. Microbially Mediated Iron-Oxide Bands at Petra (southern Jordan) are Oxidation Products of Late Diagenetic Siderite. Geological Society of America Annual Meeting, Denver, CO, October 27-30, 2013.
81. Nolan, J.*§ and **Weber, K.A.** Correlation between nitrate and uranium in the High Plains Aquifer. Changes: Climate, Water, and Life on the Great Plains, Water Conference, Lincoln, NE. October 15, 2013. (*1st Place Poster Award, J. Nolan*)
80. Healy, O. M. *§, T. L. Spanbauer‡, J. P. Nolan§, D. Pan§, A. Heithoff, D. D. Snow, and **K. A. Weber**. Microbially-Catalyzed Anaerobic Uranium Oxidation in Subsurface Sediments. American Society for Microbiology General Meeting, Denver, CO, May 18-22, 2013.
79. Pan, D.*§, Robbins, M., Williams, K. H., and **Weber, K. A.** Production of Viral Like Particles (VLPs) following *in situ* stimulation of a subsurface microbial community. American Society for Microbiology General Meeting, Denver, CO, May 18-22, 2013.
78. Tan, Z. *§ and Weber, K.A., Biosorption of Heavy Metals by Bacteriophage T4. American Society for Microbiology General Meeting, Denver, CO, May 18-22, 2013.

77. White, D.*, **K. A. Weber**, P. Blum. Fermentation-Driven Biological Iron Reduction at Temperature Extremes. American Society for Microbiology General Meeting, Denver, CO, May 18-22, 2013.
76. **Weber, K. A.***, Pan, D.§, Z. H. Tan§, K.H. Williams., M. Robbins, K. S. Bender, Y. Li. Viral Infection of Subsurface Microbiota: Implications for Carbon Cycling and Metal Transport. Joint DOE Terrestrial Ecosystems/DOE Subsurface Biogeochemistry PI Meeting, Potomac, M.D., May 14-15, 2013.
75. Pan, D. *§, Robbins, M., Williams, K. H., and **Weber, K. A.** Production of Viral Like Particles (VLPs) following *in situ* stimulation of a microbial community. Water for Food Global Conference, Lincoln, NE, May 5-8, 2013. (*2nd Place Student Poster Award, D. Pan*)
74. Pan, D. *§, Robbins, M., Williams, K. H., and **Weber, K. A.** Production of Viral Like Particles (VLPs) following *in situ* stimulation of a subsurface microbial community. School of Biological Sciences Annual Graduate Student Symposium. April 2013.
73. Tan, Z. *§ and **Weber, K.A.**, Biosorption of Heavy Metals by Bacteriophage T4. School of Biological Sciences Annual Graduate Student Symposium. April 2013.
72. Healy, O. M. *§, T. L. Spanbauer‡, J. P. Nolan§, D. Pan§, A. Heithoff, D. D. Snow, and **K. A. Weber**. Microbially-Catalyzed Anaerobic Uranium Oxidation in Subsurface Sediments. School of Biological Sciences Annual Graduate Student Symposium. April 2013.
71. Wang, D. ‡,* , D. Pan, and **K. A. Weber**. Inducible Viruses in Aquifer Sediments. UNL Undergraduate Research Fair. April 2013.

2012

70. Kettler, R. M.* , D. B. Loope, P. Niles, **K. A. Weber**. Geochemical self-organization and microbially-mediated oxidation of siderite in the Shinarump Member of the Chinle Formation. Geological Society of America, Charlotte, NC, November 4-7, 2012.
69. Pan, D.*§, R. Watson‡, Z. H. Tan‡, D. Snow, **K. A. Weber**. Induction of a viral community infecting nitrate reducing bacteria within a nitrate and uranium contaminated aquifer. 14th International Symposium on Microbial Ecology, Copenhagen, Denmark, August 19-24, 2012.
68. Pan, D.*§, R. Watson‡, Z. H. Tan‡, D. Snow, **K. A. Weber**. Production of Viral Like Particles Following the Stimulation of Heterotrophic Nitrate Reduction in Continental, Shallow Subsurface Sediment. American Society for Microbiology General Meeting, San Francisco, CA, June 16-19, 2012. (*D. Pan, Outstanding Student Poster Award*)
67. Pan, D.*§, Z. H. Tan‡, D. Snow, **K. A. Weber**. Production of Viral Like Particles Following the Stimulation of Heterotrophic Nitrate Reduction in Continental, Shallow Subsurface Sediment. Water for Food, Lincoln, NE, May 30 -June 1, 2012.
66. **Weber, K. A.***, Pan, D.§, Z. H. Tan§, K. S. Bender, Y. Li. Viral infection of subsurface microorganisms and metal/radionuclide transport. DOE Subsurface Biogeochemistry PI Workshop, Washington, D. C. April 30- May 2, 2012.
65. Z.H. Tan*§, D. Pan§, **K. A. Weber**. Adsorption of Zn²⁺ to the surface of bacteriophage: Implications for nanoparticulate metal transport. School of Biological Sciences Annual Graduate Student Symposium. April 2012.
64. Pan, D.*§, R. Watson, Z. H. Tan‡, D. Snow, **K. A. Weber**. Induction of a Viral Community Infecting Nitrate Reducing Bacteria within a Nitrate and Uranium Contaminated Aquifer.

School of Biological Sciences Annual Graduate Student Symposium. Lincoln, NE. April 2012.

63. Watson, R.*‡, D. Pan§, K. A. Weber. Characterization of *Pseudomonas frederiksbergensis* Alda10, a Nitrate Reducing Subsurface Bacterium Isolated from an Alluvial Aquifer near Alda, Nebraska. UNL Research Fair. Lincoln, NE. March 2012.
62. Soucek, J.*‡, A. Heithoff, B. LeMere‡, D. Pan§, G. Hollis‡, K. A. Weber. Characterization of the Moderately Acidophilic, Dissimilatory Iron Reducer, *Geobacter* sp. FeAm09. UNL Research Fair. Lincoln, NE. March 2012.

2011

61. Loope, D. B.* , R. M. Kettler, **K. A. Weber**, N. L. Hinrichs' and D. T. Burgess. Rinded Concretions Formed by Oxidation of Siderite: Rattlestones and Marbles From Non-Marine Sands and Sandstones of Quaternary, Cretaceous, and Jurassic Age. Geological Society of America, Minneapolis, MN, October 9-12, 2011.
60. **Weber, K. A.***, Pan, D.*§, Z. H. Tan‡, D. Snow, K. S. Bender, Y. Li. Viral infection of subsurface microorganisms and metal/radionuclide transport. DOE Subsurface Biogeochemistry PI Workshop, Washington, D. C. April 26-28, 2011.
59. Pan, D.*§, Z. H. Tan‡, D. Snow, **K. A. Weber**. Production of Viral Like Particles Following the Stimulation of Heterotrophic Nitrate Reduction in Continental, Shallow Subsurface Sediment. Biology Graduate Student Symposium, Lincoln, NE, April 8, 2011. (2nd Place, Graduate Student Poster, D. Pan)
58. Pan, D. *§, Z. H. Tan‡, D. Snow, **K. A. Weber**. Production of Viral Like Particles Following the Stimulation of Heterotrophic Nitrate Reduction in Continental, Shallow Subsurface Sediment. Missouri Valley Branch ASM Meeting, Lincoln, NE, March 31 – April 2, 2011. (2nd Place, Graduate Student Poster, D. Pan)

2010

57. Kettler, R. M.* , D. B. Loope, **K. A. Weber**. Distinguishing Between Microbially Induced Sedimentary Structures and Geochemical Self-Organization Related to Iron Oxide Mineralization in Fluvial Sandstones. GSA Annual Meeting, Denver, CO, October 31 - November 3, 2010.
56. Loope, D. B.* , R. M. Kettler, **K. A. Weber**. Pipe-Like Concretions formed by Dissolution of a Carbonate Mineral, Navajo Sandstone of South-Central Utah, USA. GSA Annual Meeting, Denver, CO, October 31 - November 3, 2010.
55. Kilburn, M.R.* , D. Wacy, J. Cliff, Z. Lan, Z. Chen, **K. A. Weber**, T. L. Spanbauer. 2010. Investigating Modern and Ancient Biosignals Using NanoSIMS. Australian Earth Science Convention, Canberra, Australia, July 4-8, 2010.
54. **Weber, K. A.***, T. L. Spanbauer‡, R. M. Kettler, D. B. Loope, D. Wacey, M. R. Kilburn. Biosignatures within Iron-Rich Concretions Originating in a Sandstone Paleo-aquifer: Evidence of Microbial Oxidative Dissolution of Fe(II)-Carbonates. Goldschmidt Conference, Knoxville, TN, June 13-18, 2010.
53. Kettler, R. M.* , D. B. Loope, **K. A. Weber**. Geological Evidence of Microbial Dissolution of Iron Carbonate. Goldschmidt Conference, Knoxville, TN, June 13-18, 2010.

52. **Weber, K. A.***, K. S. Bender, Y. Li. Viral infection of subsurface microorganisms and metal/radionuclide transport. DOE Subsurface Biogeochemistry PI Workshop, Washington, D. C. March 29-31, 2010.

2009

51. Spanbauer, T. L.* ‡, D. Wacey, M. R. Kilburn, R. M. Kettler, D. B. Loope, **K. A. Weber**. Biosignatures in Spheroidal Iron Oxide-Rich Concretions from the Navajo Sandstone. American Geophysical Union Fall Meeting. December 14-18, 2009.
50. Loope, D. B. *, Kettler, R. M., **K. A. Weber**. Iron-Rich Concretions Delineate Paleoflow Within a CO₂-Charged Aquifer: Navajo Sandstone of South-Central Utah. Geological Society of America Annual Meeting, Portland, OR. October 18-21, 2009.
49. Kettler, R. M.*, D. B. Loope, **K. A. Weber**. The Kanab Wonderstone: Siderite Oxidation by Iron-Oxidizing Microorganisms. Geological Society of America Annual Meeting, Portland, OR. October 18-21, 2009.
48. **Weber. K. A.**, K. Gandhi, K. S. Bender, G. Hollis*‡, J. D. Coates. Bacteriophage Infection of Model Metal Reducing Bacteria, *Geobacter* spp. University of Nebraska, Lincoln, Microbiology Annual Meeting, Lincoln, NE. August 17, 2009.
47. Silver, W. L. *, W. Yang, **K. A. Weber**. Feammox: A Novel Pathway for Ammonium Oxidation and Nitrogen Loss From Terrestrial Ecosystems. 94th Ecological Society of America Annual Meeting. Albuquerque, NM. August 2-7, 2009.
46. **Weber. K. A.***, K. Gandhi, K. S. Bender, J. D. Coates. Bacteriophage Infection of Model Metal Reducing Bacteria. 109th Meeting General Meeting American Society for Microbiology, Philadelphia, PA. May 17-21, 2009.
45. S. Bose*, K. G. Byrne-Bailey, **K. A. Weber**, J. D. Coates. *Diaphorobacter* sp. Strain TPSY and *Pseudogulbenkiania* Strain 2002 Employ Different Mechanisms for Mesophilic, Nitrate Dependent, Soluble Fe(II) Oxidation. 109th Meeting General Meeting American Society for Microbiology, Philadelphia, PA. May 17-21, 2009.

1998-2008

44. **Weber. K. A.***, K. Gandhi, K. Bender, J. D. Coates. Viral Infection of Model Metal Reducing Bacteria. American Geophysical Union Meeting Fall Meeting. San Francisco, CA. December 15-19, 2008.
43. **Weber, K. A.***, J. C. Thrash, T. Knox, J. dela Cruz, J. I. Van Trump, L. A. Achenbach, J. D. Coates. Diversity and Ubiquity of Microorganisms Capable of Anaerobic, Nitrate-Dependent Uraninite (U(IV)) Bio-Oxidation. 108th General Meeting American Society for Microbiology, Boston, MA. June 1-5, 2008.
42. **Weber, K. A.***, J. C. Thrash, T. Knox, J. dela Cruz, J. I. Van Trump, L. A. Achenbach, J. D. Coates. Anaerobic, Nitrate-Dependent Metal Bio-Oxidation. DOE-ERSP PI Workshop, Lansdowne, VA. April 7-9, 2008.
41. **Weber, K. A.***, K. Bender, K. Gandhi, J. D. Coates. Viral Infection of Model Metal Reducing Bacteria. DOE-ERSP PI Workshop, Lansdowne, VA. April 7-9, 2008.
40. **Weber, K. A.***, T. Knox, J. dela Cruz, J. C. Thrash, L. A. Achenbach, J. D. Coates. Anaerobic, Nitrate-Dependent Metal Bio-Oxidation. American Geophysical Union Fall Meeting, San Francisco, CA. December 10-14, 2007.

39. Wrighton, K. C.*, P. Agbo, E. L. Brodie, **K. A. Weber**, J. C. Thrash, L. A. Achenbach, J. D. Coates. Electrochemical Performance and Microbial Characterization of Thermophilic Microbial Fuel Cells. American Geophysical Union Fall Meeting, San Francisco, CA. December 10-14, 2007.
38. Coates, J. D.*, **K. A. Weber**, M. Scherer, L. A. Achenbach. The Diverse Microbiology of Anaerobic Fe(II) Oxidation. American Geophysical Union Fall Meeting, San Francisco, CA. December 10-14, 2007.
37. **Weber, K. A.***, T. Knox, J. dela Cruz, L. A. Achenbach, J. D. Coates. Anaerobic, Uraninite Bio-Oxidation. 107th General Meeting American Society for Microbiology, Toronto, Canada. May 21-25, 2007.
36. Wrighton, K. C.*, P. Agbo, **K. A. Weber**, J. C. Thrash, L. A. Achenbach, J. D. Coates. *Geobacillus* strain S2E, A Novel Thermophilic Fe(III)-Reducer Isolated From a Thermophilic Microbial Fuel Cell. 107th General Meeting American Society for Microbiology, Toronto, Canada. May 21-25, 2007.
35. Sun, Y. D. B. Goodheart*, C. Shang, **K. A. Weber**, E. K. Chan, J. D. Coates. A cbb3 Type Cytochrome C Oxidase Is Involved in Perchlorate Reduction by *Dechloromonas aromatica* strain RCB. 107th General Meeting American Society for Microbiology, Toronto, Canada. May 21-25, 2007.
34. **Weber, K. A.***, T. Knox, J. dela Cruz, L. A. Achenbach, J. D. Coates. Anaerobic, Uraninite Bio-Oxidation. DOE-ERSP PI Workshop, Lansdowne, VA. April 16-19, 2007.
33. **Weber, K. A.**, T. Knox, E. J. Miller, B. Wintle, D. Saidou, L. A. Achenbach, J. D. Coates. Anaerobic, Nitrate-Dependent Fe(II) Bio-Oxidation: A Column Study. DOE-ERSP PI Workshop, Lansdowne, VA. April 16-19, 2007.
32. **Weber, K. A.***, T. Knox, C. Chow, L. A. Achenbach, J. D. Coates. Heavy Metal Mobilization Through Anaerobic Metal Bio-Oxidation. Department of Defense, Strategic Environmental and Development Research Program, Partners in Environmental Technology Technical Symposium & Workshop. Washington, D.C., November 28-30, 2006.
31. Thrash, J. C.*, **K. A. Weber**, L. A. Achenbach, J. D. Coates. Electrochemical stimulation of microbial perchlorate reduction. Department of Defense, Strategic Environmental and Development Research Program, Partners in Environmental Technology Technical Symposium & Workshop. Washington, D.C., November 28-30, 2006.
30. **Weber, K. A.***, E. J. Miller, B. Wintle, D. Saidou, L. A. Achenbach, J. D. Coates. Anaerobic, Nitrate-Dependent Fe(II) Bio-Oxidation in Subsurface Sediments. 11th International Symposium on Microbial Ecology, Vienna, Austria. August 20-25, 2006.
29. **Weber, K. A.***, T. K. Knox, L. A. Achenbach, J. D. Coates. Anaerobic, nitrate-dependent metal bio-oxidation. 11th International Symposium on Microbial Ecology, Vienna, Austria. August 20-25, 2006.
28. **Weber, K. A.***, E. J. Miller, B. Wintle, D. Saidou, T. K. Know, E. Brodie, L. A. Achenbach, G. Anderson, J. D. Coates. Anaerobic, Nitrate-Dependent Fe(II) Bio-Oxidation in an Advective Flow System. 106th General Meeting American Society for Microbiology, Orlando, FL. May 21-25, 2006.

27. Thrash, J. C.*; **K. A. Weber**, L. A. Achenbach, J. D. Coates. Electrochemical stimulation of microbial perchlorate reduction. 106th General Meeting American Society for Microbiology, Orlando, FL. May 21-25, 2006.
26. Sun, Y.*; **K. A. Weber**, J. D. Coates. Regulation of Microbial Perchlorate Reduction by Perchlorate. 106th General Meeting American Society for Microbiology, Orlando, FL. May 21-25, 2006.
25. **Weber, K. A.***, B. Wintle, J. dela Cruz, T. K. Knox, L. A. Achenbach, J. D. Coates. Anaerobic U(IV) Bio-Oxidation. DOE-ERSP PI Workshop, Warrenton, VA. April 2-5, 2006.
24. **Weber, K. A.***, E. J. Miller, B. Wintle, D. Saidou, E. Brodie, L. A. Achenbach, G. Anderson, J. D. Coates. Anaerobic, Nitrate-Dependent Fe(II) Oxidation: A Column Study. DOE-ERSP PI Workshop, Warrenton, VA. April 2-5, 2006.
23. **Weber, K. A.***, B. Wintle, L. A. Achenbach, J. D. Coates. Anaerobic Fe(II) Bio-Oxidation under Advective Flow. American Geophysical Union Fall Meeting, San Francisco, CA. December 5-9, 2005.
22. **Weber, K. A.***, B. Wintle, L. A. Achenbach, J. D. Coates. Anaerobic Fe(II) Bio-Oxidation and Heavy Metal Immobilization. Department of Defense, Strategic Environmental and Development Research Program, Partners in Environmental Technology Technical Symposium & Workshop. Washington, D.C., November 29-December 1, 2005.
21. Thrash, J. C.*; **K. A. Weber**, L. A. Achenbach, J. D. Coates. Electrochemical Stimulation of Microbial Perchlorate Reduction. Department of Defense, Strategic Environmental and Development Research Program, Partners in Environmental Technology Technical Symposium & Workshop. Washington, D.C., November 29-December 1, 2005.
20. **Weber, K. A.***, P. Larese-Casanova, M. Scherer, J. Thieme, L. A. Achenbach, J. D. Coates. Biogenic Green Rust Formation by a Nitrate-Dependent Fe(II) Oxidizing Bacterium. 105th General Meeting American Society for Microbiology, Atlanta, GA. June 5-9, 2005.
19. Chakraborty, R., E. Chan*, K. Cruz, **K. A. Weber**, C. Shang, L. A. Achenbach, J. D. Coates. Microbial Oxidation of Humic Substances Under Thermophilic Conditions. 105th General Meeting American Society for Microbiology, Atlanta, GA. June 5-9, 2005.
18. **Weber, K. A.***, P. Larese-Casanova, M. Scherer, J. Thieme, L. A. Achenbach, J. D. Coates. Green Rust Formation Under Anaerobic Nitrate-Dependent Fe(II) Oxidizing Conditions. Goldschmidt Conference, Moscow, ID. May 20-25, 2005.
17. Coates, J. D., **K. A. Weber***, P. Larese-Casanova, M. Scherer, J. Thieme, L. A. Achenbach. Anaerobic Nitrate-Dependent Metal Bio-Oxidation. Department of Energy, NABIR PI Workshop, Warrenton, VA. April 18-21, 2005.
16. Coates, J. D., R. Chakraborty, **K. A. Weber***, J. L. Pollock, S. M. O'Connor, R. Bruce, J. I. Van Trump, M. R. Rice, L. A. Achenbach, J. Koch. Bioremediative Versatility of Perchlorate-Reducing Bacteria. Department of Defense, Strategic Environmental and Development Research Program, Partners in Environmental Technology Technical Symposium & Workshop. Washington, D.C., November 30-December 2, 2004.
15. **Weber, K. A.***, P. Larese-Casanova, M. Scherer, L. A. Achenbach, J. D. Coates. Nitrate-Dependent Fe(II)-oxidation by *Cosmobacter millennium* strain 2002 and the Formation of

- Green Rust. 104th General Meeting American Society for Microbiology, New Orleans, L.A. May 23-27, 2004.
14. Coates, J. D., J. L. Pollock*, R. Chakraborty, **K. A. Weber**, M. Rice, L. A. Achenbach. Metal Redox Cycling and Benzene Oxidation by Betaproteobacteria. 104th General Meeting American Society for Microbiology, New Orleans, L.A. May 23-27, 2004.
 13. Sun, Y.* , R. L. Gustavson, N. Ali, **K. A. Weber**, and J. D. Coates. Chemotaxis of Perchlorate-Reducing Bacteria to Various Electron Acceptors. 104th General Meeting American Society for Microbiology, New Orleans, L.A. May 23-27, 2004.
 12. **Weber, K. A.***, J. L. Pollock, K. A. Cole, S. M. O'Connor, L. A. Achenbach, J. D. Coates. Anaerobic Bio-Oxidation of Fe(II) and the Subsequent Immobilization of Radionuclides. International Workshop on Biogeochemical Processes Involving Iron Minerals in Natural Waters, Ascona, Switzerland. November 16-21, 2003.
 11. Roden, E.E.* and **K.A. Weber**. Nitrate-Dependent Fe(II) oxidation in Surface and Subsurface Sediments. 103rd General Meeting American Society for Microbiology, Washington, D.C. May 18-22, 2003.
 10. Coates, J. D. and **K. A. Weber***. Radionuclide Immobilization by the Formation of Crystalline Fe Compounds Resulting from the Bio-oxidation of Fe(II) by *Dechlorosoma suillum*. 103rd General Meeting American Society for Microbiology, Washington, D.C. May 18-22, 2003.
 9. **Weber, K. A.***, J. L. Pollock, K. A. Cole, S. M. O'Connor, L. A. Achenbach, J. D. Coates. Nitrate-Dependent Fe(II) Oxidizing Microorganisms Isolated From Freshwater Sediments. 103rd General Meeting American Society for Microbiology, Washington, D.C. May 18-22, 2003.
 8. Coates, J. D.* , **K. A. Weber**, J. L. Pollock, K. A. Cole, S. M. O'Connor, L. A. Achenbach. Bio-Oxidation of Fe(II) and Radionuclide Immobilization by *D. suillum*. DOE-NABIR PI Workshop, Warrenton, VA. March 17-19, 2003.
 7. Roden, E. E.* and **K. A. Weber**. Microbial Nitrate-Dependent Oxidation of Solid-Phase Fe(II). 223rd American Chemical Society National Meeting, Orlando, FL. April 7-11, 2002.
 6. **Weber, K. A.***, P. F. Churchill and E. E. Roden. Microbial Community Structure Associated with the Interaction Between the Nitrogen and Fe Cycle. 101st General Meeting American Society for Microbiology, Orlando, FL. May 20-24, 2001.
 5. **Weber, K. A.***, M. Leonardo and E. E. Roden. Ferrous Iron Oxidation Coupled to Nitrate Reduction by Dissimilatory Iron-Reducing Bacteria. 100th General Meeting American Society for Microbiology, Los Angeles, CA. May 21-25, 2000.
 4. **Weber, K. A.*** and E. E. Roden. Biologically Catalyzed Nitrate-Dependent Oxidation of Solid-Phase Fe(II)-Compounds at Circumneutral pH. Annual Meeting Geological Society of America, Denver, CO. October 25-28, 1999.
 3. **Weber, K. A.*** and E. E. Roden. Biologically Catalyzed Nitrate-Dependent Oxidation of Microbially-Reduced Fe(III) oxides. 99th General Meeting American Society for Microbiology, Chicago, IL. May 30-June 3, 1999.

2. **Weber, K. A.*** and E. E. Roden. Interaction of Nitrate Reduction and Fe(III) Oxide Reduction in Freshwater Wetland Sediments. Annual Water Resources Conference of the American Water Resources Association. Clear Point, AL. November 16-19, 1998.
1. **Weber, K. A.*** and E. E. Roden. Interaction of Nitrate Reduction and Fe(III) Oxide Reduction in Freshwater Wetland Sediments. 98th General Meeting American Society for Microbiology, Atlanta, GA. May 17-21, 1998.

AWARDS AND DISTINCTIONS

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| 2012 | Faculty Spotlight, Fall Semester 2012, School of Biological Sciences, UNL |
| 2011 | Impact Award, University of Nebraska—Lincoln, Water Center
(First recipient from UNL selected from among the last three years of funded projects and nominated for the National Institutes of Water Resources Impact Award) |
| 2000 | Research Award, The University of Alabama Student Activity Research and Travel Committee, The University of Alabama |
| 1998 | American Society for Microbiology Sustaining Member Student Travel Award |
| 1992 | Houston Livestock Show and Rodeo Endowed Scholarship, Texas A&M University, College Station |
| 1992 | American FFA Degree, National FFA Organization |
| 1991 | College of Agriculture and Life Sciences Scholarship, Texas A&M University, College Station |

PRESS COVERAGE

Nolan and Weber 2015.

- September 18, 2015. “Fertilizing water contamination.” *Science* (Editor’s Choice)
- September 2, 2015. “Two Large U.S. Aquifers Tainted With Natural Uranium: Study” *US News & World Report*
- August 20, 2015. “Millions of Americans' Water Supply Contaminated by Uranium” *Discovery News*. Discovery.com
- August 19, 2015. “Uranium in Groundwater” RT International, Moscow, Russia (TV Interview)
- August 19, 2015. “Study finds Uranium in Ogallala aquifer.” ABC7News Amarillo (TV Interview)
- August 18, 2015. “Researchers say High Plains Aquifer Contaminated with Uranium, TTU Researchers Weigh In” KAMC Lubbock, TX ([TV Interview](#))
- August 18, 2015. “Study suggests links between nitrate, uranium contamination” Associated Press, Numerous Print, TV, and Radio including but not limited to *The Washington Times*, *Sacramento Bee*, *Kansas City Star*, *Houston Chronicle*, *Business Insider*, *Sioux City Journal*, *The Waco Tribune*, *News Sentinel*, *Central Valley Business Times*, *The Olympian*, *Bryan-College Station Eagle*, *The Wichita Eagle*, *The Baytown Sun*, *The State*, *Ventura County Star*, *Yankton Daily Press & Dakotan*, *Press Examiner*, *Charlotte Observer*, *McCook Daily Gazette*, *Lincoln Journal Star*, *Columbus Telegram*, *Tech Times*
KLKNtv, NPR, KRQE News, KTVU, NTV, KAWL

- August 18, 2015. “UNL researchers say common pollutant can lead to radioactivity in drinking water” *Omaha World Herald*
- August 18, 2015. “Uranium in Nebraska's groundwater” KLKN-TV (TV Interview)
- August 17, 2015. “Study: Link between high nitrate levels, uranium contamination in Ogallala Aquifer” KETv (TV interview—Top Story)
- August 14, 2015. “Nitrate Pollution May Trigger Uranium Release Into Groundwater”. *Chemical and Engineering News*

Newsletters of Professional Societies and Organizations: National Groundwater Association, Waste Water Processing, Water Well Journal, No-Till Farmer

USGS Grant to Help Fund Research into Mobilization of Groundwater Uranium. *Water Current*, Summer 2014, Vol 46(3).

Weber et al. 2012.

- May 30, 2014. “2.8-Billion-Year-Old Spheres Found in South Africa: How Were They Made?” *Epoch Times*
- September 26, 2012. “Mars 'Blueberries': Iron Baubles Spotted By NASA Opportunity Rover, Suggests Life Existed On Red Planet”. *Huffington Post*
- September 26, 2012. “Spheres spark new Martian mystery” www.NBCnews.com
- September 14, 2012. “Blue Spheres Found at Mars' Crater --Were They Shaped by Microbial Life?” www.dailygalaxy.com
- September 14, 2012. “Were Martian Blueberries Molded by Microbes?” *The Epoch Times*
- September 13, 2012. “Blueberries” shaped by microbes. www.sciencealert.com.au
- September 12, 2012. “Martian 'blueberries' could be clues to presence of life”. www.phys.org
- September 10, 2012. “Team’s discovery has implications for finding life on Mars”. *Scarlett*
- August 24, 2012. “Discovery of microbes on Mars suggests signs of past life”. *Daily Nebraskan*. Title changed (online) to “UNL research IDs new target in search for Mars life” at request of Weber and Kettler. August 15, 2012. “Discovery has implications for finding life on Earth, Mars”. www.wowt.com, www.phys.org, www.rdmag.com
- August 22, 2012 “Discovery has implications for finding life on Earth, Mars”. Nebraska Alumni Newsletter
- August 20, 2012 “Discovery has implications for finding life on Earth, Mars”. *UNL Today*

Weber’s Research Gets Water Center Impact Award. *Water Current*, Fall 2011, Vol 43(4).

Loope et al. 2010.

- November 12, 2010. “Kraft-Steine aus dem Canyon "Blaubeeren" vom Mars ähneln irdischen Eisenkugeln aus Utah, die von Mikroben erzeugt worden sind” Translation: “Power-Stones from the Canyon "Blueberries" from Mars resemble terrestrial/earthly iron spheres/globes from Utah, which were produced by microbes”, *Berliner Zeitung*

Meet the Faculty. *Water Current*, Summer 2009, Vol 41(3).

PROFESSIONAL ORGANIZATIONS

American Association for the Advancement of Science

American Chemical Society
American Geophysical Union
American Society for Microbiology
Geochemical Society
Geological Society of America
International Society for Microbial Ecology

EDITORIAL BOARDS

Board of Associate Editors, *Geomicrobiology Journal* 2013-present
Review Editor, *Frontiers in Microbiology*, *Systems Microbiology* 2014-present

AD-HOC REVIEWS FOR JOURNALS

<i>Applied and Environmental Microbiology</i>	<i>Geology</i>
<i>Applied Geochemistry</i>	<i>Journal of Applied Microbiology</i>
<i>Applied Microbiology</i>	<i>Journal of Bacteriology</i>
<i>Astrobiology</i>	<i>Journal of Basic Microbiology</i>
<i>Biogeochemistry</i>	<i>Journal of Environmental Monitoring</i>
<i>CATENA</i>	<i>Journal of Materials Chemistry A</i>
<i>Chemosphere</i>	<i>Journal of Royal Society Interface</i>
<i>Ecology Letters</i>	<i>Microbial Ecology</i>
<i>Environmental Science and Technology</i>	<i>Nature Education</i>
<i>Frontiers Microbiology</i>	<i>Nature Geoscience</i>
<i>ISME Journal</i>	<i>Nature Scientific Reports</i>
<i>International Microbiology</i>	<i>Pedosphere</i>
<i>Geobiology</i>	<i>PLOS One</i>
<i>Geochimica et Cosmochimica Acta</i>	<i>Science</i>
<i>Geomicrobiology</i>	<i>Water Research</i>

REVIEWS FOR GRANTING AGENCIES

Panel Reviews

National Science Foundation, Integrative Organismal Systems (IOS), Plant-Microbe Cluster, 2012
National Science Foundation, Geobiology and Low-Temperature Geochemistry, 2014, 2015

Ad Hoc Reviews

Austrian Science Fund. Haus der Forschung
National Science Foundation, Biogeosciences
National Science Foundation, Microbial Observatories and Microbial Processes and Interactions
National Science Foundation, Geobiology and Low-Temperature Geochemistry (4)
National Science Foundation, Dimensions of Diversity
National Science Foundation, Kansas State EPSCoR First Award
National Science Foundation, Science and Technology Center

PROFESSIONAL MEETING SERVICE

Convener, Frontiers in Geomicrobiology and Microbial Biogeochemistry, North Central Geological Society of America Meeting, Lincoln, NE, April 24, 2014.

PUBLIC OUTREACH

- Healy, O. M., D. Pan, J. Nolan, N. Buan-Murphy, **K. A. Weber**. Microbes Rock, Dinosaurs and Disasters, Nebraska State Museum, Morrill Hall, February 7, 2015.
- Healy, O. M., D. Pan, Z. H. Tan, J. Nolan, **K. A. Weber**. Microbes Rock, Dinosaurs and Disasters, Nebraska State Museum, Morrill Hall, February 8, 2014.
- Weber, K.A.**, N. Buan-Murphy, and J. Nolan. Microbes Rock!, Sunday with a Scientist. Nebraska State Museum, Morrill Hall, May 19, 2013.
- Weber, K.A.**, D. Pan, Z. H. Tan, O. Healy, and J. Nolan, Microbes Rock, Dinosaurs and Disasters, Nebraska State Museum, Morrill Hall, February 2, 2013.
- Weber, K.A.**, D. Pan, A. Heithoff, Z. H. Tan, J. Soucek, R. Watson, and C. Okafor, Microbes Rock, Dinosaurs and Disasters, Nebraska State Museum, Morrill Hall, February 11, 2012
- Weber, K.A.** and A. Heithoff, Microbes Rock, SMART Girls Club, YWCA of Lincoln, October 14, 2012.
- Weber, K.A.**, Focus on Geomicrobiology and Microbial Biogeochemistry, Association of Women Geoscientists, University of Nebraska, Lincoln Chapter, September 29, 2010
- Weber, K.A.**, Exobiology, Nebraska Citizens for Science, Lincoln, NE, May 5, 2010
- Weber, K.A.**, T. L. Spanbauer, D. Pan, Microbes Rock, Dinosaurs and Disasters, Nebraska State Museum, Morrill Hall, February 6, 2010
- 24th Illinois Junior Science and Humanities Symposium, Southern Illinois University, 2002

PROFESSIONAL ACADEMIC SERVICE

University of Nebraska, Lincoln School of Biological Sciences

Service Date	Role	Committee
Fall-2015-present	Member	Search Committee: Global Change Biology
Fall 2015-present	Member	Curriculum Committee
Fall 2011-present	Member	Undergraduate Affairs and Grade Appeals Committee
Fall 2013-Summer 2015	Chair	Undergraduate Affairs and Grade Appeals Committee
Fall 2012-Spring 2013	Member	Search Committee: Evolutionary Biologist
Spring 2011-2012	Member	SWOT Task Force Committee
Fall 2008-Spring 2011		Microbiology Graduate Student Recruitment Contact
Fall 2010		Microbiology Major submission, Assembled and drafted description of Ecology and Evolution Content of Microbiology Course
Spring 2009-Spring 2011	Member	Showcase Seminar Series Committee

Department of Earth and Atmospheric Sciences

Service Date	Role	Committee
Fall 2009-present	Member	Bessey Hall Beautification Committee
Fall 2008-Spring 2009	Member	Search Committee: Geochemistry of Natural Waters

UNL Interdepartmental Service

Service Date	Role	Committee
Spring 2015-present	Member	Advisory Committee: Water Center, a part of the Robert B. Daugherty Water for Food Institute
Fall 2014-present	Member	Water Sciences Laboratory Subcommittee
Fall 2014-Spring 2015	Member	Search Committee: Microbiologist in Plant-Soil Systems
Spring 2012-Fall 2014	Member	Ecotoxicology Program Development Committee
March 9, 2011	Member	Pre-tenure Panel Member ADVANCE-NSF Site Review
August 13, 2008	Panel Member	Institute for International Teaching Assistants

Service prior to UNL

Service Date	Committee	Role	Dept	Institution
Summer 2001	Howard Hughes Medical Institute Summer Forum, Graduate Student Panel	Member	Biology	UA
2000-2001	Health Benefits Committee, Graduate Student Association	Co-Chair		UA
2000-2001	Board of Directors, Graduate Student Association	Member		UA
1997-1998	Biology Graduate Student Forum, Ecology Representative	Member	Biology	UA
1995-1995	Fundraising Committee, American Fisheries Society	Member	WFS	TxA&M

TEACHING EXPERIENCE***Instruction, University of Nebraska, Lincoln***

Semester	Course Name	Course Number	Enrollment
Fall 2015	Special Topics:	BIOS 998/GEOS 898	4
Fall 2013	Microbial Biogeochemistry		5
Fall 2011			4
Spring 2010			5
Spring 2015	Microbiology	BIOS 312	170
Spring 2013			159
Spring 2012			169
Fall 2009			133

Fall 2014	Geomicrobiology	BIOS 444/844	16
Fall 2012		GEOL 444/844	8
Fall 2010			5
Spring 2009			2

Guest Lectures and Prior Institutional Instruction

Date	Course Name and Number	Lecture Title	Institution
September 23, 2011	Organismic Biology, BIOS 103	Microbial Habitats: Where does life exist?	UNL
April 6, 2010	Life in the Universe, ASTR 113	Martian Blueberries and Iron Oxidizing Bacteria	UNL
February 18, 2010	Life in the Universe, ASTR 113	Early Evolution and the Nature of Cells	UNL
October 6, 2009	Genetics, Genomics, and Bioinformatics of Prokaryotes, BIOS 942	Microbial Community Structure and Function	UNL
April 15, 2009	Environmental Microbiology, CIVE 498/898	Microbial Electron Transfer to Extracellular Electron Acceptors	UNL
2004, 2005, 2006	Microbial Diversity, PLANTBI 116	Microbial Metal Reduction	UCB
2004, 2005	Critical Thinking in Microbiology, PLANTBI 220	Bioremediation of Inorganic Contaminants	UCB
Fall 2001	Geomicrobiology, Microbiology 423	Co-Instructor	SIU
2000	Non-Majors Biology, Biology 108	Global Change (one week)	UA
2000	Majors Biological Science Laboratory, Biology 115	Teaching Assistant	UA

ADVISORY RESEARCH EDUCATION AND TRAINING AT UNL

Postdoctoral Advisees, University of Nebraska, Lincoln

Summer 2015-present Donald Pan

Graduate Student Advisees, University of Nebraska, Lincoln

Fall 2015-present	Jeffrey Westrop, current Ph.D. student, Department of Earth and Atmospheric Sciences
Fall 2012-present	Olivia Healy, Ph.D. Candidate, School of Biological Sciences, Microbiology and Molecular Biology Program
Fall 2012-present	Jason Nolan, Ph.D. Candidate, Department of Earth and Atmospheric Sciences, Great Plains Fellow
Fall 2009-Spring 2015	Don Pan, Ph.D. Graduate, School of Biological Sciences, Microbiology and Molecular Biology Program, Stressed Watershed IGERT Fellow
Fall 2011- Spring 2014	Zheng Huan Tan, M.S. Graduate, School of Biological Sciences, Microbiology and Molecular Biology Program
Fall 2010	Xioaben Jiang, Ph.D. student, Student School of Biological Sciences, Ecology, Evolution and Behavior Program

Graduate Student Committee Membership, University of Nebraska, Lincoln

- 2015-present Miles Mayer, Department of Chemistry, UNL (Committee Member; Advisor Dr. Rebecca Lai)
- 2013-present Christopher Anderson, current Ph.D. GCMB, UNL (Committee Member; Advisor Dr. Etsuko Moriyama)
- 2010-present Derrick White, current Ph.D. Microbiology and Molecular Biology Program, UNL (Committee Member; Advisor Dr. Paul Blum)
- 2011-2013 Brady Kohler, M.S. Graduate, School of Natural Resources, UNL (Committee Member; Advisor Dr. Steven Thomas)
- 2010-2012 Maitham Ahmed Al-Sammak, Ph.D., Environmental Health, Occupation Health, and Toxicology, University of Nebraska Medical School and University of Nebraska, Lincoln, School of Natural Resources (Committee Member and Reader; Advisor Dr. Kyle Hoagland)
- 2009 Chunmei “Angela” Bai, Ph.D. student, Department of Civil Engineering, UNL (Advisor Dr. Yusong Li)

External Examiner, Graduate Student Committee Membership

- Fall 2015 Allison Enright, Department of Earth Sciences, University of Toronto (Advisor Dr. Grant Ferris)

Graduate Student Rotation Research Supervisor, University of Nebraska, Lincoln

- Fall 2013 Sophie Payne, Ph.D. student, GCMB, UNL, Methane production from calcium carbonate

Undergraduate Student Advisees, University of Nebraska, Lincoln

*Denotes undergraduate students joining the Weber Laboratory as a graduate student

‡Denotes post-baccalaureate students enrolled at UNL

- Fall 2014-present Rebecca Kiat, UCARE, UNL
- Summer 2014-present Soyoung Jung, Research Assistant, UNL
- Summer 2015 Lauren Semingson, NSF Bioenergy REU
- Fall 2014-Spring 2015 Aaron Patterson, Research Assistant, UNL
- Summer 2013 Caitlin Leahy, Purdue University, NSF Bioenergy REU
- Spring 2012-Spring 2013 Dake Wang, UNL, UCARE
- Fall 2009-Spring 2012 Jesse Soucek, UNL, UCARE
- Fall 2009-Spring 2012 Rachel Watson, UNL, UCARE
- Summer 2010 & 2011 Brandon Lamere, Little Priest Tribal College, NSF REU, INBRE
- Summer 2011 Olivia Healy*, Warren-Wilson College, NSF Bioenergy REU
- Fall 2010-Spring 2011 Zheng Huan Tan*, UNL, Research Assistant
- Spring 2010 Gwinyiayi Chikwava, UNL, Research Assistant
- Summer 2010 Anthony Harrington, University of Nevada, Las Vegas, NSF Bioenergy REU
- Summer 2010 Karen Hu, University of Pennsylvania, Research Assistant
- Spring 2009-Summer 2010 Trisha Spanbauer‡, Research Assistant, UNL
- Fall 2008-Spring 2010 Gregory Hollis, UNL, UCARE
- Summer 2009 Tristan Walters, Southwestern College, NSF Bioenergy REU

Summer 2009

Collins Okafor, UNL, Research Assistant

Graduate Student Advisee Fellowships, Grants, and Awards, University of Nebraska, Lincoln
Ph.D. Students

Olivia Healy

Fellowship, NSF EASPI (2015).

Student Travel Grant, American Geophysical Union (2014). \$500

Fellowship, NASA Nebraska Space Grant (2014-2015). \$5,000

Special Funds Research Grant, School of Biological Sciences (2014-2015). \$1200

Special Funds Travel Grant, School of Biological Sciences (2014-2015). \$300

1st Place Poster Award, Biological Graduate Student Association Symposium, Lincoln, NE (2014).

Othmer Fellowship, University of Nebraska—Lincoln (2012-2015). \$7,500/year

Special Funds Travel Grant, School of Biological Sciences (2012-2013). \$350

Special Funds Research Fellowship, School of Biological Sciences (2014). \$1500

Jason Nolan

Geological Society of America (2014), \$1,500

- Outstanding Mention (Exceptional Merit and Presentation) Top 10 of 744 GSA applicants (2014)
- Hydrogeology Division Exceptional High Merit in Presentation and Conception, Top 5 (2014)

Great Plains Fellowship, University of Nebraska, Lincoln (2014-present), \$500/year

Jay M. McMurray Memorial Grant, American Association of Petroleum Geologists (2014), \$1,000

1st Place Poster Award, Changes: Climate, Water, and Life on the Great Plains, Water Conference, Lincoln, NE (2013). \$200

Yatkola-Edwards Grant, Nebraska Geological Society (2013). \$400

American Association of Petroleum Geologists, Nebraska Chapter, Research Grant (2013). \$400

Geological Society of America, On to the Future Program (2013). \$415

Don Pan, Ph.D. graduated May 2015, currently postdoctoral advisee

Travel Award, International Symposium on Microbial Ecology, Seoul, Korea (2014).

2nd Place Poster Award, Biological Graduate Student Association Symposium, Lincoln, NE (2014).

Special Funds Research Grant, School of Biological Sciences (2012-2013). \$1350

Special Funds Travel Grant, School of Biological Sciences (2012-2013). \$350

2nd Place Poster Award, Water for Food Conference, Lincoln, NE (2013). \$1000

Fellowship, NASA Nebraska Space Grant (2012-2013) \$3,500.

Outstanding Poster Award, American Society for Microbiology General Meeting, San Francisco, CA (2012).

Student Travel Grant, American Society for Microbiology, General Meeting, San Francisco, CA (2012). \$500

Special Funds Travel Grant, School of Biological Sciences (2012). \$600

2nd Place Poster Award, Biological Graduate Student Association Symposium, Lincoln, NE (2011).

2nd Place Poster Award, Missouri Valley Branch, American Society for Microbiology
Annual Meeting, Lincoln, NE (2011).

Viewer's Choice Poster Contest Honorable Mention, Water for Food Conference, Lincoln,
NE (2011). \$750

Fellowship, NSF IGERT (2010-2013). \$30,000/year

Othmer Fellowship University of Nebraska—Lincoln (2009-2011). \$7,500/year

M.S. Students

Zheng Huan Tan, M.S. graduated May 2014, currently Research Technician Baylor College of
Medicine, Houston, TX

Special Funds Research Grant, School of Biological Sciences (2012-2013). \$2,000

Special Funds Travel Grant, School of Biological Sciences (2012-2013). \$350

GRADUATE ADVISOR

Eric E. Roden, Department of Biological Sciences, The University of Alabama, Tuscaloosa
(*current affiliation, Department of Geology and Geophysics, University of
Wisconsin—Madison*)

POSTDOCTORAL ADVISOR

John D. Coates, Department of Microbiology, Southern Illinois University (2002) and Department
of Plant and Microbial Biology, University of California, Berkeley (*December
2002-2006*)