Timothy M. Vadas

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Education:

2008	Ph.D., Environmental Engineering, Cornell University
2006	M.S., Environmental Engineering, Cornell University
2003	B.S./ B.S. Bioresource Engineering, Rutgers University

Professional Experience:

2018-	Director, Environmental Engineering Program, University of Connecticut
2017-	Associate Professor, Department of Civil and Environmental Engineering, University of Connecticut, Center for Environmental Sciences and Engineering, University of Connecticut
2010-2017	Assistant Professor, Department of Civil and Environmental Engineering, Center for Environmental Sciences and Engineering, University of Connecticut
2009	Adjunct Professor, Community College of Baltimore County
2008-2009	Research Associate/Lab Manager, Department of Civil and Environmental Engineering, University of Maryland Baltimore County
2003-2008	Research Assistant, Department of Biological and Environmental Engineering, Cornell University
2000-2003	Undergraduate Research Assistant, Department of Bioresource Engineering, Rutgers University
1999-2000	Undergraduate Assistant, Department of Plant Biology and Pathology, Rutgers University

Publications (bold indicates my advisee, * indicates corresponding author):

In review

Luan, H., T.M. Vadas*. Urban stream sources of Cu and organic matter control bioaccumulation in periphyton.

Luan, H., T.M. Vadas*. Influence of wastewater effluent and stormwater organic matter inputs on bioavailability and attachment of Cu to *Selenastrum capricornutum*.

In revision

Doroski, A.A., A. Helton*, T.M. Vadas. Greenhouse gas fluxes from coastal wetlands at the intersection of urban pollution and saltwater intrusion: a soil core experiment. Soil Biology and Biochemistry.

Doroski, A.A., A.M. Helton*, T.M. Vadas. Carbon and nitrogen cycling in restored and unrestored wetland soils in a coastal urban landscape. Estuaries and Coasts.

Published, accepted or in press

Han, Y. R. Li, C. Brückner, T.M. Vadas*. 2018. Controlling the surface oxygen groups of polyacrylonitrile-based carbon nanofiber membranes while limiting fiber degradation. C. 4 (3) 40.

Vadas, T.M.*, **M. Smith**, **H. Luan**. 2017. Leaching and retention of dissolved metals in particular loaded pervious concrete columns. J. Environmental Management. 190:1-8.

Turpin-Nagel, K., T.M. Vadas*. 2016. Controls on metal exposure to aquatic organisms in urban streams. Environmental Science: Processes & Impacts 18:956-967 (invited – 2016 Emerging Investigators Issue).

Seda, N., F. Koenigsmark, T.M. Vadas*. 2016. Sorption and coprecipitation of copper to ferrihydrite and humic acid organomineral complexes and controls on copper availability. Chemosphere 147:272-278.

Lancaster, N., J. Bushey, C. Tobias, B. Song, T.M. Vadas*. 2016. Impact of salt on denitrification in roadside environments. Environmental Pollution 212:216-223.

Li, Y*., Y. Wu, B. Liu, **H. Luan**, T. Vadas, W. Guo, J. Ding, B. Li. 2015. Self-sustained reduction of multiple metals in a microbial fuel cell-microbial electrolysis cell hybrid system. Bioresource Technology 192:238-246.

Luan, H., T.M. Vadas*. 2015. Size characterization of dissolved metals and organic matter in source waters to streams in developed landscapes. Environmental Pollution 197:76-83.

Hainfeld, J.F.*, L. Lin, D.N. Slatkin, F.A. Dilmanian, T.M. Vadas, H.M. Smilowitz. 2014. *Gold nanoparticle hyperthermia reduces radiotherapy dose.* Nanomedicine: Nanotechnology, Biology, and Medicine 10(8):1609-1617.

Li, Y.*, Y. Wu, S. Puranik, Y. Lei**,** T. Vadas, B. Li. 2014. *Metals as electron acceptors in single-chamber microbial fuel cells.* Journal of Power Sources 269: 430-439.

Santoro, C.*, I. Ieropoulos, J. Greenman, P. Cristiani, T. Vadas, A. MacKay, B. Li. 2013. *Current generation in membraneless single chamber microbial fuel cells (MFCs) treating urine*. Journal of Power Sources 238:190-196.

Santoro, C.*, I. Ieropoulos, J. Greenman, P. Cristiani, T. Vadas, A. MacKay, B. Li. 2013. *Power generation and contaminant removal in single chamber microbial fuel cells (SCMFCs) treating human urine*. International Journal of Hydrogen Energy. 38(26):11543-11551.

Vadas, T.M., B.A. Ahner. 2009. *Extraction of Pb and Cd from artificially and field contaminated soils by the natural thiol ligands cysteine and glutathione.* Journal of Environmental Quality, 38:1-8.

Vadas, T.M., B.A. Ahner. 2009. *Cysteine and glutathione-mediated uptake of Pb and Cd into Zea mays and Brassica napus roots*. Environmental Pollution 157:2558-2563.

Moslemi, J., K.A. Capps, M.S. Johnson, J.E. Maul, P.B. McIntyre, A.M. Melvin, T.M. Vadas, D.M. Vallano, J.M. Watkins, M.S. Weiss. 2009. *Creating a Community of environmental problem-solvers: a balanced approach to graduate student training*. Bioscience 59(6):514-521.

Vadas, T.M., T.J. Fahey, R.E. Sherman, D. Kay. 2007. *Local-scale policy analysis of carbon mitigation strategies: Tompkins County, New York, USA*. Energy Policy 35:5515-5525.

Vadas, T.M., X. Zhang, A.M. Curran, B.A. Ahner. 2007. *Fate of DTPA, EDTA, and EDDS in hydroponic media and effects on plant mineral nutrition*. Journal of Plant Nutrition 30:1229-1246.

Vadas, T.M., T.J. Fahey, R.E. Sherman, J.D. Demers, J.M. Grossman, J.E. Maul, A.M. Melvin, B. O'Neill, S.M. Raciti, E.T. Rochon, D.J. Sugar, C. Tonitto, C.B. Turner, M.J. Walsh, K. Xue. 2007. *Approaches for analyzing local carbon mitigation strategies: Tompkins County, New York, USA*. International Journal of Greenhouse Gas Control 1(3):360-373

Uchrin, C.G., J.G. Hunter, S.S. Park, T.M. Vadas. 2005. *In-situ measurement of macrophyte photosynthesis and respiration in shallow lakes*. ASCE J. of Environmental Engineering. 131(2):315-319.

Reports

Mahoney, J., E. Jackson, D. Larsen, T. Vadas, K. Wille, S. Zinke. 2015. Winter Highway Maintenance Operations: Connecticut. The Connecticut Academy of Science and Engineering.

Honors and Awards:

2015	NSF CAREER Award
2005-2008	EPA STAR fellowship
2003-2005	Biogeochemistry and Environmental Biocomplexity NSF IGERT fellowship
2003	Alpha Epsilon Honor Society
2002	Tau Beta Pi Honor Society
2002	Cook College Philip Alampi Scholar
2002	NJ Water Environment Association Sol Seid Award
2002	Ross, Irene & Harper Grant Scholarship

2001 Benjamin Moore and Company Scholarship
2001 Ross, Irene & Harper Grant Scholarship
2001 Golden Key National Honor Society
1999 Semper Fidelis Award

Grants:

Total Funding received since joining UConn: $4.3 million ($1,784,391 to PI)
State or National: $3.96 million ($1,701,713 to PI)
University: $582,381 ($128,666 to PI)

Received

23. Dept of Education, "GAANN Addressing aging infrastructure: From components to networks", PI (50%), 10/01/18 – 9/30/21, $746,250
22. USGS, "Fe-OM coprecipitation and its effects on bioavailability of Cu and OM to denitrifiers", PI, 03/01/18-02/28/19, $8,000.
21. USDA, "Assessing barriers to use of reclaimed wastewater for food production in controlled environment agriculture", PI (50%) with co-PIs C. Kirchhoff, R. Raudeles. 05/15/17-05/14/21, $406,907.
20. EPA, "Valuation of water quality change in environment and economy context: Ecosystem services across gradients of degradation and local economic interest", co-PI (10%) with PI S. Swallow, co-PIs C. Towe, C. Kirchhoff, 08/23/16-08/22/19, $799,994
19. UConn OVPR, Ecosystem services across gradients of human-driven degradation: An interdisciplinary pursuit regarding thresholds, hysteresis, restoration, and economic benefits, co-PI, with PI S. Swallow, co-PIs C. Towe, C. Elphick, P. Liu, 06/01/16-05/31/17, $49,716
18. UConn OVPR, Water quality and crop concerns with reclaimed water for greenhouse agricultural production, PI (92%), with co-PI R. Raudales, 06/01/16-05/31/17, $49,987
17. Dept. of Education, GAANN: Environmental engineering at the forefront of water policy and education", PI (17%), with co-PIs G. Wang, E. Anagnostou, M. Astitha, C. Kirchhoff, J. Mellor, 09/01/15-08/31/18, $704,385
16. UConn Provost Tier II, "Smart Resource Grids: Exploring technical solutions to grand challenges at the water-energy-food nexus", co-PI with PI R. McAvoy, co-PIs J. McCutcheon, A. MacKay, X. Yang, G. Elliot, L. Shor, W. Mustain, R. Raudales, 06/01/15-05/31/18, $450,000
15. NSF, "CAREER: Impact of urbanization on organic carbon-metal interactions and trophic transfer in streams", sole PI, 02/01/15-01/31/20, $500,000
14. CT Sea Grant, "Coastal wetlands at the leading edge of sea level rise: Effects of saltwater intrusion on wetland ecosystem function in urban landscapes", co-PI (40%) with PI A. Helton, 12/01/14-11/30/16, $130,000
13. NSF, "Tuning activated carbon nanofiber nonwoven membranes for selective sorption of micropollutants", PI (70%) with co-PIs C. Brückner, A. MacKay, J. McCutcheon, 09/01/14-08/31/17, $337,617

12. CASE, "Winter Highway Maintenance Operations in Connecticut", co-PI (10%) with PI J. Mahoney, co-PIs K. Wille, E. Jackson, P. Singh, 07/01/14-06/30/15, $67,390
11. CT Space Grant, "Functionalized activated carbon nanofiber for Ca and dimethylsilanediol removal in recycled water systems", PI with co-PIs A. MacKay, J. McCutcheon, C. Brückner, 06/01/13-05/31/14, $20,000
10. CT Institute of Water Resources, "Investigating the effects of storm and wastewater treatment inputs on the biouptake and transfer of heavy metals in urban stream food webs", co-PI with PI Bin Zhu, University of Hartford, 03/01/13-02/28/14, $2,360
9. UMBC, "Porous Concrete Water Quality Analysis", PI, 02/01/12 – 01/30/14, $24,955
8. CT Institute of Water Resources, "Influence of dynamic copper speciation on bioavailability in streams", PI, 03/01/12-02/28/14, $36,017
7. UConn Foundation, "Dissolution and aggregation of nanosilver particles in environmentally and biologically relevant solutions", 01/01/12-12/31/12, $21,483
6. UConn Center for Environmental Science and Engineering, "Interaction between organic matter sources and metals in streams: implications for bioavailability in impacted stream food webs", 09/01/11-05/31/12, $11,195

Prior to UConn

5. UMBC Special Research Initiative Support, "The effects of DOC and biological activity on metal retention and mobility in bioretention systems", PI with co-PI Brian Reed, UMBC, 01/01/09-12/31/09 $20,000
4. Biogeochemistry and Environmental Biocomplexity small grant, *Exploring lead uptake and localization in* Brassica napus *root cells using electron microscopy and x-ray spectroscopy*, sole PI, 2007, $2,480
3. Biogeochemistry and Environmental Biocomplexity small grant, *Enhancing the solubility of Pb and Cd in contaminated soils*, sole PI, 2005, $3,120
2. Biogeochemistry and Environmental Biocomplexity small grant, *Lead transport mechanisms and their role in phytoremediation*, sole PI, 2004, $2,732
1. EPA P3 Award, *City in a box: A new paradigm for sustainable living*, co-PI, 2004 (with PI N. Scott, et al., Cornell), $10,000

Research Supervisions:

Major advisor

Julia Czarnecki, PhD ENVE, expected graduation 2022
Nafis Fuad, PhD ENVE, expected graduation 2020
Randi Mendes, PhD ENVE, expected graduation 2019
Dorrotya Kelemen, MS ENVE, graduated 2018
Katie Turpin-Nagel, MS ENVE, graduated 2017
Diane Hagmann, PhD ENVE, enrolled 2015, dropped out 2016
Yi Han, PhD ENVE, expected graduation 2017
Hongwei Luan, PhD ENVE, graduated 2016

Neila Seda, MS ENVE, graduated 2014
Ju Zhang, MS Plan B ENVE, graduated 2012

Minor advisor
Yaguang Du, PhD ENVE, expected graduation 2018
Bowen Yang, PhD ENVE, graduated 2018
Yan Li, MS ENVE, graduated 2014, PhD ENVE graduated 2017
Lukas McNaboe, MS NRE, graduated 2017
April Doroski, MS NRE, graduated 2017
Jason Sauer, MS NRE, graduated 2016
Will Jolin, PhD ENVE, graduated 2016
Xinzhu Xiong, MS Plan B ENVE, graduated 2015
Kai Zhang, MS Plan B ENVE, graduated 2015
Juan Pablo Correa, PhD ENVE, graduated 2014
Corinna Fleischman, PhD CE, graduated 2014
Chad Johnston, PhD ENVE, graduated 2013
Yuan Feng, MS Plan B ENVE, graduated 2013
Jacqueline Oakes, MS ENVE, graduated 2013
Nakita Lancaster, MS ENVE, graduated 2012
Racquel Figueroa-Diva, PhD ENVE, graduated 2011
Lauren Blazeck, MS ENVE, graduated 2011
Mykel Mendes, MS ENVE, graduated 2011
Dan Seremet, MS ENVE, graduated 2010

Undergraduate research advisor
Harrison Mangines, 2018-
Griffin Cassata, 2018-
Daniel Olchowski, 2016-2017
Thomas Funk, 2016-2017
Stephanie Hubli, 2016
Faye Koenigsmark, 2013-2015
Cheryl Leith, 2015
Elaine Karl, 2013-2014
Rob Domin, 2012-2014
Greg Rosshirt, 2013-2014
Ryan Hudock, 2012
Skyler Marinoff, 2012-2013
Malcolm Smith, 2011-2013
Michael Welch, 2011
Ryan Sullivan, 2011
Kevin McNally, 2010

Teaching:

Courses Taught
2017 ENVE4320

2017	ENVE4320
2016	ENVE3200 Environmental Engineering Laboratory, 4.1/4.3/4.6
2016	ENVE4920W Environmental Engineering Design II, 5/4.4/4.6
2016	ENVE5094 Seminar in Environmental Sci & Eng, 4.1/4.7/4.6
2015	ENVE4320 Ecological Principles and Engineering, 4.3/4.3/4.5
2015	ENVE4910W Environmental Engineering Design I, 4.6/4.4/4.5
2015	ENVE5094 Seminar in Environmental Sci & Eng, 5.0/4.4/4.6
2015	ENVE3200 Environmental Engineering Laboratory, 4.1/4.3/4.5
2015	ENVE2320 Environmental Debate, 4.0/3.8/4.1
2014	ENVE4320 Ecological Principles and Engineering, 4.8/4.4/4.5
2014	ENVE2320 Environmental Debate, 4.7/4.1/4.5
2014	ENVE3200 Environmental Engineering Laboratory, 4.0/4.3/4.5
2013	ENVE4320 Ecological Principles and Engineering, 3.8/4.2/4.5
2013	ENVE5211 Environmental Chemistry II, 4.3/4.5/4.6
2012	ENVE4320 Ecological Principles and Engineering, 6.0/8.0/8.8
2012	ENVE3200 Environmental Engineering Laboratory, 7.3/7.1/8.9
2011	ENVE4320 Ecological Principles and Engineering, 8.5/8.2/8.8
2011	ENVE3200 Environmental Engineering Laboratory, 8.3/8.0/8.9
2010	ENVE4320 Ecological Principles and Engineering, 8.3/8.5/8.8
2010	ENGR1166 Foundations of Engineering, 7.3/7.7/8.8

Activities

2015	Co-organizer, AEESP workshop on teaching with Case Study Method
2014	Yale workshop on "Developing and Assessing Students' Critical Thinking Skills"
2014	Institute of Teaching and Learning personal teaching assessment
2012	EPA Campus Rainworks Competition, with J. Clausen and 6 undergraduates from various departments.
2011-present	multiple Institute of Teaching and Learning workshops, e.g. "Responding to student writing", "Assessment and evaluation"
2009	Environmental Science Laboratory, Community College of Baltimore County
2008	Guest lectures in Environmental Chemistry, UMBC
2007	Co-leader, Workshop on Interdisciplinary Collaboration, Biogeochemistry and Environmental Biocomplexity program, Cornell University
2007	Teaching Assistant, BEE 251: Engineering for a Sustainable Society, Cornell University
2007	Guest lecture, *Tailoring carbon mitigation strategies to the local area*, NtRes 431: Environmental strategies, Cornell University
2005	Co-leader, Workshop on CO_2 mitigation, Biogeochemistry and Environmental Biocomplexity program, Cornell University

Industry Experience:

2012-present	State of Connecticut, Professional Engineering License #PEN.0029103
2003	State of New Jersey Engineer-in-Training, certificate 12951

2002-2003	Assistant Engineer, Shaw Environmental and Infrastructure, Mt. Arlington, NJ
2001	Surveyor, Suburban Consulting Engineers, Dover, NJ

Service:

University

2017-2018	Proposal reviewer, Environmental Metanoia
2016	Organizer, Joint NRE/ENVE Graduate Student Poster Session
2015-present	ENVE representative, Teale Lecture Series
2015	Participant, Graduate School Hearing Committee
2015	Review committee, Summer Undergraduate Research Fund
2014-present	Coordinator, ENVE seminar series
2014-present	Elected representative, Graduate Faculty Council
2010/13/14	Participant, CT Invention Convention, SOE
2010-present	Participant, ENGR1000, SOE
2012,2014	Participant, Open House, SOE
2012-present	Faculty advisor, Green Building Club
2012	Member, hydrometeorology search committee, CEE Department
2011-present	Member, Curriculum&Courses/ABET committee, CEE Department
2010-present	Member, ENVE graduate admissions committee, ENVE Program
2010	Chair, undergraduate education committee, CEE Department
2010-2014	Member, space committee, CEE Department
2006-2008	Undergraduate student mentor, Department of Biological and Environmental Engineering, Cornell University
2006	Treasurer, Biogeochemistry and Environmental Biocomplexity Graduate Student Association, Cornell University
2005-2008	Reviewer, Biogeochemistry and Environmental Biocomplexity small grants competition, Cornell University
2005-2006	Workshop committee member, Biogeochemistry and Environmental Biocomplexity IGERT, Cornell University
2002-2003	Bioresource Engineering Representative, Cook College Council, Rutgers University

Educational

2017	Mentor, research experience for high school student, Johsua Zhang
2016,2017	Leader, UConn daVinci Project workshop, “Monitoring and Maintaining Stream Health in a Developed Watershed”
2015-2016	Mentor, research experience for high school student, Catherine Herrick
2015	Mentor, Research Experience for Teachers, Edmund Smith
2010	Mentor, Glastonbury High School student research, Chris Zeller

Professional

2018	Member, Environmental Engineering Body of Knowledge Task Force
2017	Panel Member, NSF Environmental Engineering Program
2016	Reviewer, NSF Graduate Research Fellowship Program
2015-2016	Member, Town of Mansfield Climate Action Task Force

2014/15	Reviewer, academic job applications, AEESP student services committee
2014	Poster session chair, GRC Environmental Sciences:Water
2014-present	Reviewer, multiple UConn Experiment Station hatch grant proposals
2014/15	Reviewer, multiple USGS NIWR proposals
2012	AGU, North America National Meeting, organized session on "Urban Biogeochemical Cycles"
2007-present	Reviewer, Environmental Science & Technology, International Journal of Greenhouse Gas Control, Ecological Engineering, Aquatic Sciences, Energy and Buildings, Environmental Pollution, Environmental Toxicology and Chemistry, Chemosphere, Environmental Engineering Science
2007	Reviewer, Teresa Heinz Scholar Grant

Professional Societies:
American Chemical Society-Environmental chemistry
Association of Environmental Engineering and Science Professors
American Geophysical Union
Ecological Society of America-Biogeosciences

Presentations (bold indicates **advisees**, presenter underlined, PP = poster, OP = oral)**:**

R. Mendes, T.M. Vadas, **F. Koenigsmark**. Ternary Phase Interactions between ferrihydrite, copper, and organic matter. American Chemical Society Conference, New Orleans, LA, March 2018. PP

Y. Han, R. Li, C. Bruckner, T.M. Vadas. Composite of Functionalized Carbon Nanotube and Carbon Nanofiber for improving water treatment, New Orleans, LA, March 2018. **OP**

H. Luan, T.M. Vadas**.** 2017. Comparison of Cu biouptake by *Selenastrum capricornutum* in the presence of organic matter from wastewater effluent and stormwater runoff. The International Conference on the Biogeochemistry of Trace Elements. PP.

Mendes, R., T.M. Vadas. 2017. Ternary phase interactions between ferrihydrite, copper, and organic matter. 2017 AEESP Research and Education Conference. PP.

Han, Y., R. Li, C. Bruckner, T.M. Vadas. 2017. Comparative chemical oxidations of polyacrylonitrile-based activated carbon nanofiber membranes to limit fiber breakage. 2017 AEESP Research and Education Conference. OP.

Vadas, T.M., **H. Luan.** 2017. Cu speciation and uptake in urbanizing streams. Tufts University Environmental Engineering Seminar 04/11/17. OP.

Doroski, A., A. Helton, T. Vadas. 2017. Effects of saltwater intrusion on wetland greenhouse gas emissions. Connecticut Conference on Natural Resources. March 13, 2016. OP.

Vadas, T.M., **H. Luan.** 2017. Cu speciation and uptake in urbanizing streams. Temple University Environmental Engineering Seminar 03/01/17. OP.

H. Luan, T.M. Vadas**.** 2016. Comparison of Cu biouptake by Selenastrum capricornutum in the presence of organic matter from wastewater effluent and stormwater runoff. SETAC North America 37th Annual Meeting/7th SETAC World Congress. PP.

Doroski, A., A. Helton, T. Vadas. 2016. Effects of salinity and metals on denitrification across restored and reference wetlands in urban landscapes. New England Chapter of the Society for Ecological Restoration Regional Conference. OP.

Vadas, T.M., **R. Mendes, N. Seda, F. Koenigsmark**. 2016. Iron oxide-organic matter coprecipitates control Cu speciation and partitioning. Gordon Research Conference Environmental Sciences Water, Holderness, NH. PP.

Han, Y., R. Li, C. Bruckner, T.M. Vadas. 2016. Comparison of chemical oxidation pathways on nanofibrous activated carbon materials. ACS National Meeting, San Diego, CA. OP.

Doroski, A., A. Helton, T. Vadas. 2016. Effects of salinity and metals on denitrification across coastal wetlands in urban landscapes. Society of Wetland Scientists Conference. OP.

Doroski, A., A. Helton, T. Vadas. 2016. Coastal wetland geochem: Sea level rise and urban runoff. CT Conference on Natural Resources. OP.

Bushey, J., S. Brady, A. Aragon-Jose, **N. Lancaster**, C.R. Tobias, T.M. Vadas. 2016. Road Effects on biogeochemical cycling. Northeastern Geological Society of America Meeting. OP.

Koenigsmark, F., T. M. Vadas. 2015. Cu binding to iron oxide-organic matter coprecipitates in solid and dissolved phases. AGU Fall Meeting. PP.

McCutcheon, J., N.N. Bui, L. Huang, S. Manickam, B. Waisi, **Y. Han**, T. Vadas. 2015. Nanofiber materials for water treatment and resuse. AEESP Research and Education Conference. OP.

Luan, H., T.M. Vadas. 2015. Characterization of effluent and stormwater metal sources and influence on bioavailability in developed streams. ACS National Meetings, Denver, CO. OP.

Koenigsmark, F., N. Seda, T.M. Vadas. 2015. Copper sorption and lability from iron oxide and organic matter coprecipitates. ACS National Meetings, Denver, CO. PP.

Han, Y., E. Karl, J. McCutcheon, C. Brückner, T.M. Vadas. 2014. Tuning an activated carbon nanofiber membrane material for specific sorption in water treatment systems. ACS National Meeting. OP.

Seda, N., F. Koenigsmark, T.M. Vada**s.** 2014. Iron oxide – organic matter coprecipitates and controls on copper fate and transport in wetlands. ACS National Meeting. OP.

Vadas, T.M. 2014. Effluent and stormwater impacts on metal lability and bioavailability in urban streams. GRC Environmental Sciences: Water. PP.

Luan, H., T.M. Vadas. 2014. The differential impact of effluent and stormwater sources on metal lability and bioavailability in developed streams. Connecticut Conference on Natural Resources. OP.

Han. Y., E. Karl, J. McCutcheon, C. Brückner**,** T.M. Vadas. 2014. Tuning an activated carbon nanofiber membrane material for specific sorption in water treatment systems. Connecticut Conference on Natural Resources. PP.

Seda, N., F. Koenigsmark, T.M. Vadas. 2014. Iron oxide – organic matter copreciptates and controls on copper availability in wetlands. Connecticut Conference on Natural Resources. PP.

Han, Y., E. Karl, J. McCutcheon, C. Brückner**,** T.M. Vadas. 2013. Surface modified activated carbon nanofiber nonwoven as a high surface area sorbent in water treatment. ACS National Meeting. OP.

Zhang, J., T.M. Vadas. 2013. Porewater dynamics in a treatment wetland over a storm event: Links to metal retention and release. ACS National Meeting. PP.

Han, Y., T.M. Vadas. 2013. Surface modified activated carbon nanofiber nonwoven as a high surface area sorbent in water treatment. AEESP Conference. PP.

Han, Y., T.M. Vadas. 2013. Synthesis of a Functionalized Activated Carbon Nanofiber Membrane Material of Enhanced Sorption in Water Treatment Systems. Connecticut Conference on Natural Resources. PP.

Luan, H. T.M. Vadas. 2013. Bioavailability in an Urban Stream During Baseflow Versus Stormflow. Connecticut Conference on Natural Resources. PP.

Seda, N., T.M. Vadas. 2013. Sediment Biouptake of Nanosilver in Lumbriculus Variegates. Connecticut Conference on Natural Resources. PP.

Vadas, T.M., **H. Luan**. 2012. *Cu lability and bioavailability in an urban stream during baseflow versus stormflow***.** American Geophysical Union Fall Meeting. OP.

Karra, U., C. Santoro, C. Tenaglier, T.M. Vadas, A.M. MacKay, B. Li.2012. *The Effects of Nitrate and Sulfate on the Power Generation of Microbial Fuels Cells*. North America meeting of International Society for Microbial Electrochemistry and Technology. OP.

Santoro, C., I. Ieropoulos, J. Greenman, P. Cristiani, T. Vadas, A. MacKay, B. Li. 2012. *Improvement in understanding of the processes in single chamber microbial fuel cells fed with human urine.* International Society for Microbial Electrochemistry and Technology. OP.

Vadas, T.M.. 2012. *Copper sorption and availability in iron oxide colloids formed under conditions present in a constructed wetland*. American Chemical Society: Colloid and Surface Science Symposium. OP.

Zeller, C., T.M. Vadas. 2012. *Metal biouptake in urban and suburban influenced streams around Hartford, CT.* Geological Society of America Northeast Region. PP.

Vadas, T.M., **J. Zhang**. **2011.** Porewater chemistry in a treatment wetland: links to metal retention and release. AGU Fall Meeting. PP.

Vadas, T.M. 2008. *Thiol-mediated Pb uptake and compartmentalization by plants*. UMBC Department of Civil and Environmental Engineering Seminar. OP.

Vadas, T.M., B.A. Ahner. 2008. *Pb-thiol root uptake and compartmentalization by plants: evidence from Brassica napus, electron microscopy and Arabidopsis thaliana knockouts*. Gordon Research Conference Environmental Sciences-Water. PP.

Moslemi, J., K.A. Capps, M.S. Johnson, J.E. Maul, P.B. McIntyre, A.M. Melvin, T.M. Vadas, D.M. Vallano, J.M. Watkins, M.S. Weiss. 2008. *Training tomorrow's environmental problem-solvers: An integrative approach to graduate education.* Ecological Society of America annual meeting. PP.

Vadas, T.M., B.A. Ahner. 2007. *Metal-thiol uptake in plants: Accidental or active transport?* Institute of Ecosystem Studies. PP.

Vadas, T.M., T.J. Fahey. 2007. *Cost benefit analysis of carbon mitigation strategies: Tompkins County, NY*. Cornell Campus Sustainability Summit. PP.

Vadas, T.M., T.J. Fahey. 2006. *CO_2 mitigation in Tompkins County: A work in progress*. Biogeochemistry and Environmental Biocomplexity Seminar. OP.

Vadas, T.M., B.A. Ahner. 2006. *A mechanistic strategy for thiol-mediated phytoremediation of Pb and Cd from contaminated soils*. Gordon Research Conference Environmental Sciences-Water. PP.

Vadas, T.M., B.A. Ahner. 2006. *Thiol-mediated phytoremediation of Pb and Cd from contaminated soils*. EPA STAR Graduate Fellowship Conference. PP.

Scott, N.R., E. Cheung, J. Compton, L. Duan, J. Hatch, J. Hill, J. Kadlec, R. Labatut, W. Lambert, M. Lark, G. Lewis, I. Murray, K. Nichols, J. Smithmeyer, N. Streeter, L. Peritz, J. Ramo, L. Richards, T.M. Vadas, M. Vigil, M. Wright, M. Wrolstad, E. Wyffels, R. Young. 2005. *Strategic Plan for a Sustainable Community: A case for People, Prosperity and the Planet through a live-work development*. EPA P3 Competition, Washington, D.C. PP.

Vadas, T.M., L. Zhian, B.A. Ahner. 2004. *Thiols enhance Pb uptake in Zea mays*. Gordon Research Conference: Environmental Bioinorganic Chemistry. PP.