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:

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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

Published, accepted or in press

Doroski, A.A., A. Helton*, T.M. Vadas. 2019. Greenhouse gas fluxes from coastal wetlands at the intersection of urban pollution and saltwater intrusion: a soil core experiment. Soil Biology and Biochemistry. *accepted*

- **Doroski, A.A.**, A.M. Helton*, T.M. Vadas. 2019. Carbon and nitrogen cycling in restored and unrestored wetland soils in a coastal urban landscape. Estuaries and Coasts. *accepted*
- **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, graduated 2018

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

ENGR1166 Foundations of Engineering

ENVE2320 Environmental Debate

ENVE3200 Environmental Engineering Laboratory

ENVE4320 Ecological Principles and Engineering

ENVE4910W/4920W Environmental Engineering Senior Design

ENVE5094 Seminar in Environmental Science & Engineering

ENVE5211 Environmental Chemistry II (Organic)

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:

BCI VICC.	
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 2012-present 2012 2011-present 2010-present 2010-2014 2006-2008 2006 2005-2008 2005-2006 2002-2003	Participant, Open House, SOE Faculty advisor, Green Building Club Member, hydrometeorology search committee, CEE Department Member, Curriculum&Courses/ABET committee, CEE Department Member, ENVE graduate admissions committee, ENVE Program Chair, undergraduate education committee, CEE Department Member, space committee, CEE Department Undergraduate student mentor, Department of Biological and Environmental Engineering, Cornell University Treasurer, Biogeochemistry and Environmental Biocomplexity Graduate Student Association, Cornell University Reviewer, Biogeochemistry and Environmental Biocomplexity small grants competition, Cornell University Workshop committee member, Biogeochemistry and Environmental Biocomplexity IGERT, Cornell University Bioresource Engineering Representative, Cook College Council, Rutgers University
Educational 2017 2016,2017 2015-2016 2015 2010	Mentor, research experience for high school student, Johsua Zhang Leader, UConn daVinci Project workshop, "Monitoring and Maintaining Stream Health in a Developed Watershed" Mentor, research experience for high school student, Catherine Herrick Mentor, Research Experience for Teachers, Edmund Smith Mentor, Glastonbury High School student research, Chris Zeller
Professional 2018 2017 2016 2015-2016 2014/15 2014 2014-present 2014/15 2012 2007-present	Member, Environmental Engineering Body of Knowledge Task Force Panel Member, NSF Environmental Engineering Program Reviewer, NSF Graduate Research Fellowship Program Member, Town of Mansfield Climate Action Task Force Reviewer, academic job applications, AEESP student services committee Poster session chair, GRC Environmental Sciences: Water Reviewer, multiple UConn Experiment Station hatch grant proposals Reviewer, multiple USGS NIWR proposals AGU, North America National Meeting, organized session on "Urban Biogeochemical Cycles" 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 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**, <u>presenter</u> underlined, PP = poster, OP = oral):

- **R. Mendes**, <u>T.M. Vadas</u>, **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, American Chemical Society Conference, New Orleans, LA, March 2018. **OP**
- **H. Luan,** <u>T.M. Vadas.</u> 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, <u>T.M. Vadas</u>. 2017. Comparative chemical oxidations of polyacrylonitrile-based activated carbon nanofiber membranes to limit fiber breakage. 2017 AEESP Research and Education Conference. OP.
- <u>Vadas, T.M.</u>, **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.
- <u>Vadas, T.M.</u>, **H. Luan.** 2017. Cu speciation and uptake in urbanizing streams. Temple University Environmental Engineering Seminar 03/01/17. OP.
- **H. Luan,** <u>T.M. Vadas.</u> 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.
- <u>Han, Y.</u>, 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.
- **<u>Doroski, A.,.</u>** 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., <u>T. M. Vadas</u>. 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, <u>T.M. Vadas</u>. 2014. Tuning an activated carbon nanofiber membrane material for specific sorption in water treatment systems. ACS National Meeting. OP.
- **Seda, N., F. Koenigsmark,** <u>T.M. Vadas.</u> 2014. Iron oxide organic matter coprecipitates and controls on copper fate and transport in wetlands. ACS National Meeting. OP.
- <u>Vadas, T.M.</u> 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.
- <u>Han. Y.</u>, 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.
- <u>Seda, N.</u>, 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, <u>T.M. Vadas</u>. 2013. Surface modified activated carbon nanofiber nonwoven as a high surface area sorbent in water treatment. ACS National Meeting. OP.
- **Zhang, J.,** <u>T.M. Vadas</u>. 2013. Porewater dynamics in a treatment wetland over a storm event: Links to metal retention and release. ACS National Meeting. PP.
- **Han, Y.,** <u>T.M. Vadas</u>. 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.
- <u>Luan, H.</u> T.M. Vadas. 2013. Bioavailability in an Urban Stream During Baseflow Versus Stormflow. Connecticut Conference on Natural Resources. PP.
- <u>Seda, N.,</u> T.M. Vadas. 2013. Sediment Biouptake of Nanosilver in Lumbriculus Variegates. Connecticut Conference on Natural Resources. PP.
- <u>Vadas, T.M.,</u> **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.

- <u>Vadas, T.M.</u>. 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.
- <u>Vadas, T.M.</u>, **J. Zhang**. **2011.** Porewater chemistry in a treatment wetland: links to metal retention and release. AGU Fall Meeting. PP.
- <u>Vadas, T.M.</u> 2008. *Thiol-mediated Pb uptake and compartmentalization by plants*. UMBC Department of Civil and Environmental Engineering Seminar. OP.
- <u>Vadas, T.M.,</u> 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.
- <u>Vadas, T.M.</u>, B.A. Ahner. 2007. *Metal-thiol uptake in plants: Accidental or active transport?* Institute of Ecosystem Studies. PP.
- <u>Vadas, T.M.</u>, T.J. Fahey. 2007. *Cost benefit analysis of carbon mitigation strategies: Tompkins County, NY*. Cornell Campus Sustainability Summit. PP.
- <u>Vadas, T.M.,</u> T.J. Fahey. 2006. *CO*₂ mitigation in Tompkins County: A work in progress. Biogeochemistry and Environmental Biocomplexity Seminar. OP.
- <u>Vadas, T.M.</u>, 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.
- <u>Vadas, T.M.</u>, 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, <u>T.M. Vadas</u>, 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.

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