PINAR OMUR-OZBEK, Ph.D.

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EDUCATION

Ph.D. in Civil Engineering **December 2008**
Virginia Polytechnic Institute and State University, Blacksburg, VA
Dissertation: "Macromolecular Reactions and Sensory Perception at the Air-Water-Human Interface"

M.S. in Environmental Engineering **December 2004**
Virginia Polytechnic Institute and State University, Blacksburg, VA
Thesis: "Determination of Henry's Law Constants of Odorous Contaminants and Their Application to Human Perception"

B.S. in Environmental Engineering **June 2002**
Middle East Technical University (METU), Ankara, Turkey

RELATED EXPERIENCE

Teaching Associate Professor **August 2019 – Present**
Colorado State University, Fort Collins, CO
Teaching senior level courses on environmental engineering and laboratory practices, conducting engineering education research, participating in outreach and committee activities within the department, college, university and Northern Colorado

Professor of Practice **August 2017 – August 2019**
Colorado State University, Fort Collins, CO
Teaching senior level courses on environmental engineering and laboratory practices, developing research ideas and proposals, conducting research with graduate students, participating in outreach and committee activities within the department, college, and Northern Colorado

Assistant Professor **August 2011 – August 2017**
Colorado State University, Fort Collins, CO
Teaching senior level courses on environmental engineering and laboratory practices, developing research ideas and proposals, conducting research with graduate students, participating in outreach and committee activities within the department, college, and Northern Colorado

Research Assistant Professor **January 2009 – July 2011**
Colorado State University, Fort Collins, CO
Teaching senior level courses on environmental engineering and laboratory p*ractices, developing research ideas and proposals*

Graduate Research Assistant **March 2003 – August 2008**
Virginia Tech, Blacksburg, VA
Conducted research in the taste and odor laboratory for water quality and sensory analyses of drinking water, food science and technology laboratory for lipid oxidation analyses, and biomedical sciences and engineering laboratory for cell culturing and protein analyses

HONORS AND AWARDS

- CSU Water Scott Jr College of Engineering George T Abell Outstanding Faculty Teaching and Mentoring Award **2024**
- CSU CEE Faculty Award for Excellence in Service **2024**
- CSU CEE Faculty Award for Excellence in Teaching **2022**
- CSU CEE Faculty Award for Excellence in Service **2022**
- Fellow of the Faculty Institute for Inclusive Excellence **2022**
- ASCE ExCEEd Teaching Award Nominee **2014**
- AWWA Best Poster Award at AWWA Joint RMWEA/*RMSAWWA* Conference **2012**
- ASCE Excellence in Civil Engineering Education Teaching Fellowship **2010**
- NSF Travel Award to attend NSF CAREER Workshop at Iowa City, IA **2009**
- Best Student Paper Award at AWWA WaterJAM, Virginia Beach, VA **2008**
- Best Poster Award at 8th IWA Symposium on Off-Flavor in the Aquatic Environment, Seoul, Korea **2008**
- Best Mentor Award from the NSF SURP, Virginia Tech, VA **2008**
- Second Place Poster Award, 22nd Research Symposium at Virginia Tech, VA **2006**
- Scholarship for Best Student Presentation at 7th IWA Symposium on Off-Flavor in the Aquatic Environment, Cornwall, Canada **2005**
- Best Poster Award, AWWA Annual Conference, Orlando, Florida **2004**
- Edna D. Bailey Sussman Environmental Science and Engineering Fellowship **2003**

RESEARCH INTERESTS

Surface and Drinking Water Quality

- Impacts of wildfires and retardants on surface and drinking water quality
- Occurrence of and exposure to chemical spills in source and drinking waters
- Effects of climate change on algal tastes, odors and toxins in source waters
- Advanced treatment methods for taste & odor, and toxin removal from drinking water
- Occurrence of algal metabolites in source waters and their adverse health effects
- Consumer perception of drinking water
- Sensory analysis of tastes-and-odors in drinking water

Wastewater Treatment and Contaminants of Concern

- Nutrient discharge to surface waters through wastewater effluent and their modeling
- Siloxanes in waste activated sludge and issues with scaling on boilers

Indoor Air Modeling

- Exposure of humans to volatile organic contaminants in drinking water

Interdisciplinary

- Investigating produced water quality for various fracking fluids and after treatment
- Algal toxin accumulation in crops due to irrigation with contaminated water
- Fate and transport of toxins in surface and ground waters and agricultural soils
- Exposure of humans to contaminants in drinking water
- Toxicity of algal toxins in drinking water after advanced oxidation – cell culturing
- Understanding the off-flavor perception of cancer patients
- Impacts of toxins in irrigation water on crop growth and quality

FUNDED RESEARCH PROJECTS

Principal Investigator

Center for Transformative Infrastructure Preservation and Sustainability (CTIPS) Educational Project. ($60,000 for September 2024 – August 2025)
Creating Multimedia Resources for Enviro/Socio Impacts and Sustainability Aspects of Transportation Projects

American Councils for International Education, Central Asia University Partnership Program (UniCEN) ($24,000 + $5,000 for January-September 2022)
Training New Generation of Engineers to Face Global Water Challenges

Loveland Water and Power ($25,000 for May 2018 – July 2019)
Lead Sampling in Elementary and Middle Schools in Thompson School District

Agricultural Experiment Station ($85,425, ($28,475/year) for July 2015 – June 2018)
Occurrence of Toxic Algal Metabolites in Irrigation Ponds and their Impact on Crops

COE Interdisciplinary Proposal ($13,500 for November 2014-June 2015)
Evaluating Hairy Roots as a Model System to Evaluate and Offset the Impacts of Algal Toxins on Crop Growth

Denver Water ($33,500 for February 2014-November 2014)
Evaluation of Pre-oxidation and Adsorption for Taste and Odor Control

Water Research Foundation/CU Boulder ($8,905 of $100,000 for Oct 2013-Oct 2014)
The Impact of Colorado Wildfires on Source Water Quality and Implications for Water Treatment and Finished Water Quality

City of Fort Collins Water Treatment Plant ($10,000 for October 2013 – August 2014)
Smoky Flavors in Poudre River Water due to High Park Fire, Its Sensory and Analytical Detection and Treatment

Agricultural Experiment Station ($85,983 ($28,661/year) for July 2012 – June 2015)
Occurrence of Toxic and Odorous Algal Metabolites in Irrigation and Stock Ponds

Colorado Water Institute ($5,000 for March 2012 – March 2013)
Biowin Simulation to Assess Alternative Treatment Units for a Local Wastewater Treatment Plant to Meet the New Effluent Standards

City of Loveland Water Treatment Plant ($19,293 for October 2011 – October 2012)
BioWin Modeling/Simulation for Biological Nutrient Removal Expansion Improvements

American Water Works Association ($28,701 for July 2011 – March 2012)
Global Taste and Odor Survey of Drinking Water Utilities

Colorado Water Institute ($4,980 for March 2011 – March 2012)
The Efficacy of the Use of Moringa Oleifera Seeds to Remove Metabolites of Cyanobacteria from Drinking Water

City of Fort Collins Water Treatment Plant ($10,000 for September 2010 – May 2011)
Geosmin Removal by Powdered Activated Carbon over Selected Contact Times

Colorado State University (Internal RFP, $6,700 for November 2010 – April 2011)
Removal of Algal Toxins from Drinking Water by Moringa Oleifeira Seeds

Services Contracts

City of Greeley Water Treatment Plant (~$ 3,250 July 2016 - 2018)
Monitoring odorants in the source and finished water

Lafourche Parish Water Treatment Plant, Thibodaux, LA (~$16,200 June 2015 - 2018)
Monitoring odorants in the source and finished water

City of Wellington Water Treatment Plant (~$7,500 May 2014 – 2018)

Monitoring odorants in the source and finished water

City of Fort Morgan Water Treatment Plant (~$7,300 May 2013 – October 2015)
Monitoring odorants in the source and finished water

City of Fort Collins Wastewater Treatment Plant (~$11,000 August –December 2013)
Monitoring volatile fatty acids in wastewater samples

City of Longmont Water Treatment Plant (~$10,000 March 2012 – November 2013)
Monitoring geosmin levels in the source and finished water

City of Thornton Water Treatment Plant (~$12,000 October 2012 – November 2013)
Monitoring odorants in the source and finished water

City of Boulder Water Treatment Plant (~$500 June 2012)
Monitoring odorants in the source and finished water

Farnsworth Consulting Company (~$1,000 August - December 2012)
Monitoring odorants in the source and finished water

City of Erie Water Treatment Plant (~$ 35,500 July 2011 - 2018)
Monitoring odorants in the source and finished water

Consolidated Mutual Water Company (~$20,000 June 2011 – October 2013)
Monitoring odorants in the source and finished water

City of Louisville Water Treatment Plant (~$10,000 July 2011 – November 2013)
Monitoring odorants in the source and finished water

City of Loveland Water Treatment Plant (~$80,350 June 2010 - 2018)
Monitoring odorants in the source and finished water

Other Awards

CSU Writing Across the Curriculum Program 24-25 Course Development Grant. ($1,500).

CSU Writing Across the Curriculum Program 23-24 Course Development Grant. ($1,500).

CSU Libraries. Digital Open Educational Resources Grant. ($8,000). (2022-2023 AY)

Colorado State University (Internal RFP, $12,100 for Equipment, 2017)
Purchase of air quality measurement instruments with other CEE faculty

Colorado State University (Internal RFP, $20,000 for Equipment, 2012)
Purchase of a GC/FID with other CEE faculty

ALL PROPOSALS PREPARED AND SUBMITTED

Authored the proposal entitled “Creating Multimedia Resources for Enviro/Socio Impacts and Sustainability Aspects of Transportation Projects” submitted to Center for Transformative Infrastructure Preservation and Sustainability (CTIPS) Educational Project, in April 2024. PI: Dr. Pinar Omur-Ozbek. Awarded. $60,000.

Authored the proposal entitled “Integrating Engineering for One Planet Framework to Develop Modules for Sustainability Infusion of Courses in Civil and Environmental Engineering Curriculum” submitted to American Society of Engineering Education Engineering for One Planet Mini-Grants Program in January 2024. PI: Dr. Pinar Omur-Ozbek. Not awarded. $10,000.

Authored the proposal entitled “Integrating Climate Change, Sustainability, Resilience, and Environmental & Social Justice into Civil and Environmental Engineering Education” submitted to School of Global Environmental Sustainability: Sustainability Curriculum Innovation Grants in December 2023. PI: Dr. Pinar Omur-Ozbek. Not awarded. $10,000.

Co-authored proposal entitled “Integration of Generative AI-Based Agents for Enhancing Communication and Learning Skills in Civil and Environmental Engineering (CEE), and Construction Management (CM) Education” submitted to the Engineering Information

Foundation's Enhancing Communication and Use of Information Program, in October 2023. PI: Dr. Ziyu Jin, Co-PI: Pinar Omur-Ozbek. Not Awarded. $25,000.

Co-authored the proposal entitled "Training New Generation of Engineers to Face Global Water Challenges" submitted to American Councils for International Education, Central Asia University Partnership Program (UniCEN), in December 2021. PI: Dr. Pinar Omur-Ozbek, Co-PIs: Dr.Ketul Popat, Dr.DaeSeok Chai, Dr.Christie Peebles. Awarded. $24,000.

Authored the proposal entitled "Modelling Fate and Transport of Cyanotoxins in Porous Media" submitted to NSF, in October 2017. PI: Dr. Pinar Omur-Ozbek, Co-PI: Dr. Ryan Bailey. Not awarded. $208,101.

Co-authored the proposal entitled "Project Delivery Performance Evaluation and Decision Support Tool for Water and Wastewater Capital Projects" submitted to Water Research Foundation in August 2016. PI: Dr. Kelly Strong, Co-PI: Dr. Pinar Omur-Ozbek, Co-PI: Dr. Mehmet Ozbek. Not awarded. $149,998.

Co-authored the proposal entitled "Developing phytoremediation techniques to mitigate cyanotoxins impact on crops and water quality" submitted to NSF in October 2015. PI: Dr. Pinar Omur-Ozbek, Co-PI: Dr. Christie Peebles. Not awarded. $564,006.

Authored the proposal entitled "Evaluation of Pre-oxidation and Adsorption for Taste and Odor Control" submitted to Denver Water, in January 2014. PI: Dr. Pinar Omur-Ozbek, Co-PI: Ken Carlson. Awarded. $33,500.

Authored the proposal entitled "Wildfire Ash Effects on Water Quality" submitted to Michigan Technological University as a sub-award for a Joint Fire Science project, in December 2013. PI: Dr. Pinar Omur-Ozbek. Not awarded. $177,185.

Authored the proposal entitled "The Impact of Colorado Wildfires on Source Water Quality, Water Treatment and Finished Water Quality" submitted to CU Boulder as a sub-award for a $100,000 WRF project, in September 2013. PI: Dr. Pinar Omur-Ozbek. Awarded. $8,905.

Co-authored the proposal entitled "Evaluation of Different Types of Waterproofing Membranes (Asphaltic and Non-asphaltic) as Cost Effective Bridge Deck Barriers in Reducing Corrosion" submitted to CDOT in May 2013. PI: Dr. Rebecca Atadero. Not awarded. $59,662.

Authored the proposal entitled "BRIGE: Predicting Algal Taste and Odor Episodes in Source Waters Using Satellite Intelligence" submitted NSF in February 2013. PI: Dr. Pinar Omur-Ozbek. Not awarded. $174,981.

Authored the proposal entitled "Occurrence of Siloxanes in Wastewater, Waste Activated Sludge and Biogas, and Their Removal with Advanced Oxidation" submitted to NSF in January 2013. PI: Dr. Pinar Omur-Ozbek. Not awarded. $185,096.

Co-authored the proposal entitled "ADVANCE PAID: CSU NOW - Networking and Mentoring Opportunities for Women in Academia" submitted to NSF in November 2012. PI: Dr. Pinar Omur-Ozbek, Co-PI's: Dr. Rebecca Atadero, Dr. Susan James, and Dr. Lynn Hempel. Not awarded. $527,211.

Authored the proposal entitled "Smoky Flavors in Poudre River Water due to High Park Fire, Its Sensory and Analytical Detection and Treatment" submitted to City of Fort Collins Drinking Water Utility in September 2012. PI: Dr. Pinar Omur-Ozbek. Awarded. $10,000.

Authored the proposal entitled "Occurrence of Toxic and Odorous Algal Metabolites in Irrigation and Stock Ponds" submitted to Agricultural Experiment Station in May 2012. PI: Dr. Pinar Omur-Ozbek. Awarded. $28,661.

Co-authored the "Concept Note for a Single Institution Center: USAID RFA-0AA-12-000004 Higher Education Solutions Network. Center for Accessible Diagnostics through Innovative Networks (CADIN): A Proposal to Expand Access to Diagnostic Services in West Africa through Innovative,

Strategic Networks" submitted to USAID in March 2012. PI: Dr. Richard Bowen, Co-PI's: Dr. Shana Gilette, Dr. Kristy Pabilonia, Dr. Pinar Omur-Ozbek. Not selected. $19,826,445.

Co-authored the proposal entitled "Filling Data Gaps in Environmental Impact Assessment of Microalgae-based Biofuels: Experimental Measurement of the Direct Emissions of Microalgae Photobioreactors" submitted to NSF in February 2012. PI: Dr. Pinar Omur-Ozbek, Co-PI's: Dr. Thomas Bradley and Dr. Anthony Marchese. Not awarded. $321,693.

Co-authored the proposal entitled "Enhancement of Geosmin Prediction and Treatment Models with Phytoplankton Grazer Dynamics" submitted to NSF in February 2012. PI: Dr. Kimberly Catton, Co-PI's: Dr. Pinar Omur-Ozbek and Dr. Sarah Spaulding. Not awarded. $331,935.

Authored the proposal entitled "Low-Cost Plasma Oxidation Technology to Reduce Off-Odors, Toxins, and Disinfection Byproduct Precursors in Drinking Water" submitted to NSF as a subcontractor to Symbios Technologies, LLC in December 2011. PI: Dr. Pinar Omur-Ozbek, Not awarded. $38,262.

Authored the proposal entitled "BioWin Modeling/Simulation for Biological Nutrient Removal Expansion Improvements" submitted to City of Loveland Water and Wastewater Treatment Plant in October 2011. PI: Dr. Pinar Omur-Ozbek. Awarded. $19,293.

Authored the proposal entitled "Implementation of a New Low-Cost Plasma Oxidation Technology to Small Systems to Remove Off-Flavors and Selected Emerging Contaminants from Drinking Water" submitted to EPA in August 2011. PI: Dr. Pinar Omur-Ozbek. Not awarded. $463,150.

Co-authored the proposal entitled "Green Building Design: Water Quality and Utility Management Considerations" submitted to Water Research Foundation in June 2011. PI: Dr. Pinar Omur-Ozbek, Co-PI's: Dr. Caroline Clevenger and Dr. Mehmet Ozbek. Not awarded. $275,000.

Co-authored the proposal entitled "Impact of Climate Change on the Ecology of Algal Blooms" submitted to Water Research Foundation in June 2011. PI: Dr. Kimberly Catton, Co-PI's: Dr. Pinar Omur-Ozbek, Dr. Mazdak Arabi and Dr. Scott Summers. Not awarded. $240,000.

Authored the proposal entitled "Taste and Odor Survey of Water Utilities around the Globe" submitted to Technical and Education Council of AWWA in May 2011. PI: Dr. Pinar Omur-Ozbek. Awarded. $28,701.

Co-authored the proposal entitled "Measurement and Evaluation of Direct Pollutant Emissions from Microalgae Biofuel Reactors for a Holistic Life Cycle Assessment" submitted to NSF in March 2011. PI: Dr. Pinar Omur-Ozbek, Co-PI's: Dr. Thomas Bradley and Dr. Anthony Marchese. Not awarded. $295,790.

Authored the proposal entitled "BRIGE: Investigation of a Sustainable and Cost Effective Method for Algal Toxin and Odorant Removal from Drinking Water" submitted to NSF in January 2011. PI: Dr. Pinar Omur-Ozbek. Not awarded. $155,668.

Co-authored the proposal entitled "ADVANCE PAID: CSU NOW – Face-to-face and Web-based Networking Opportunities for Women to Promote Success in Academia" submitted to NSF in November 2010. PI: Dr. Rebecca Atadero, Co-PI's: Dr. Pinar Omur-Ozbek and Dr. Lynn Hempel. Not awarded. $322,821.

Co-authored the proposal entitled "Optimization of Algal Biofuel Production Processes to Eliminate Emission of the Potent Green House Gas Nitrous Oxide" submitted to CES Internal Seed Grant. 2010. PI: Dr. Susan De Long, Co-PI's: Dr. Thomas Bradley, Dr. Anthony Marchese and Dr. Pinar Omur-Ozbek. Not awarded. $25,000.

Co-authored the proposal entitled "Filling Data Gaps in Assessment of Environmental Impacts of Microalgae-based Biofuels: Experimental Measurement of the Direct Emissions of Microalgae Photobioreactors" submitted to NSF in September 2010. PI: Dr. Pinar

Omur-Ozbek, Co-PI's: Dr. Thomas Bradley and Dr. Anthony Marchese. Not awarded. $282,495.

Co-authored the proposal entitled "IDR: The Effect of Stratification and Predator-Prey Interactions on the Production and Transport of Geosmin in Reservoirs During Algal Blooms" submitted to NSF in December 2009. PI: Dr. Kimberly Catton, Co-PI's: Dr. Pinar Omur-Ozbek and Dr. Sarah Spaulding. Not awarded. $499,701.

Co-authored the proposal entitled "Mechanisms of Metallic Flavor from Drinking Water" submitted to Institute for Public Health and Water Research. PI: Dr. Andrea M. Dietrich, Co-PI's: Drs. Susan Duncan and YongWoo Lee. Awarded. $200,000 for July 2006-2008.

PAPERS AND PRESENTATIONS

Peer Reviewed Articles

1. Kim, S.; **Omur-Ozbek, P.**; Carlson, K.; Lee, S.; Kim, E.S.; Hwang, M.J.; Son, J.H. and Kang, W., **2023**. Organics and inorganics in flow back and produced water from shale gas operations: treatment and identification of glycols using gas chromatography–mass spectrometry. Water Reuse, 13:2:282-293.
2. Kalan. D.; Ozbek, M.E.; **Omur-Ozbek, P.**; Dooley, G. **2022**. Case Study: Comparison of Disinfection By-product Formations Between LEED-Certified and Non-LEED Certified Buildings. Developments in the Built Environment. 12:100100
3. Koc, K.; Gurgun, A.P.; Ozbek, M.E.; Kalan, D.; Clevenger, C.; **Omur-Ozbek, P. 2022.** Comparative Analysis of Work-Life Balance Perceptions of Civil Engineering Students. Journal of Civil Engineering Education. 148:2:04021016
4. Kim, S.; **Omur-Ozbek, P**; Carlson K. **2020.** Characterization of Organic Matter in Water from Oil and Gas Wells Hydraulically Fractured with Recycled Water. Journal of Hazardous Materials. 397:5October:120551.
5. Kim, S.; Sick, B.; **Omur-Ozbek, P**; Carlson K.H. **2019.** Investigating the influence of hydraulic fracturing fluid type and well age on produced water quality: chemical composition, and treatment and reuse challenges. Desalination and Water Treatment. 146:39-56.
6. Cawley, K.M.; Hohner, A.K., McKee, G.A.; Borch, T.; **Omur-Ozbek, P.**; Oropeza, J.; Rosario-Ortiz, F.L. **2018.** Characterization and spatial distribution of particulate and soluble carbon and nitrogen from wildfire-impacted sediments. Journal of Soils and Sediments. 18:4:1314-1326. doi:10.1007/s11368-016-1604-1
7. Kim, S.; **Omur-Ozbek, P.**; Dhanasekar, A.; Prior, A.; Carlson, K. **2016.** Temporal Analysis of Flowback and Produced Water Composition from Oil and Gas Operations: Impact of Frac Fluid Characteristics. Journal of Petroleum Science and Engineering. 147:202-210.
8. Esmaeilirad, N.; Carlson, K.; **Omur-Ozbek, P. 2015.** Influence of Softening Sequencing on Electrocoagulation Treatment of Produced Water. Journal of Hazardous Materials. 283:721-729.
9. **Omur-Ozbek, P.**; Dietrich, A.M.; Duncan, S.E.; Lee, Y.W. **2012.** Role of Lipid Oxidation, Chelating Agents, and Antioxidants in Metallic Flavor Development in the Oral Cavity. Journal of Agricultural and Food Chemistry. 60(9), 2274-2280.
10. **Omur-Ozbek, P.**; Dietrich, A.M. **2011.** Retronasal Perception and Flavor Thresholds of Iron and Copper in Drinking Water. Journal of Water and Health. 9(1), 1-9.
11. **Omur-Ozbek, P.**; Gallagher, D.L.; Dietrich, A.M. **2011.** Determining Human Exposure and Sensory Detection of Odorous Compounds Released During Showering. Environmental Science and Technology. 45(2), 468-473.
12. Hong, J.H.; **Omur-Ozbek, P.**; Stanek, B.T.; Dietrich, A.M.; Duncan, S.E.; Lee, Y.W.; Lesser, G. **2009**. Taste and Odor Abnormalities in Cancer Patients. Journal of Supportive Oncology. 7(2), 58-65.

13. **Omur-Ozbek, P.**; Dietrich, A.M. **2008**. Developing Hexanal as an Odor Reference Standard for the Sensory Analysis of Drinking Water. Water Research. 42(10/11), 2598-2604.
14. **Omur-Ozbek, P.**; Little, J.; Dietrich, A.M. **2007**. Ability of Humans to Smell Major Odorants in Indoor Air When Using Contaminated Drinking Water. Water Science and Technology. 55(5), 249-256.
15. **Omur-Ozbek, P.**; Dietrich, A.M. **2005**. Determination of Temperature-Dependent Henry's Law Constants of Odorous Contaminants and Their Application to Human Perception. Environmental Science and Technology. 39(11), 3957-3963.

Conference Proceedings Papers

1. **Omur-Ozbek, P.**; Atadero, R.; Agha, W.; Hedayati, A. Navigating Ethical Dilemmas in Civil and Environmental Engineering: Ethical Case Studies based on Experiences of Early Career Engineers. Presented and published at the ASEE Annual Conference in Portland, OR (June, 2024). (Peer-reviewed)
2. Atadero, R.; Agha, W.; Hedayati, A.; **Omur-Ozbek, P.** Early-career engineers' stories of ethics and equity in the workplace: A thematic analysis. Presented and published at the ASEE Annual Conference in Portland, OR (June, 2024). (Peer-reviewed)
3. Castaneda et al.; **Omur-Ozbek, P.** Advancing the ASCE ExCEEd Teaching Workshop: A Multi-Year, Multi-Stage Evaluation Process and Implementation Plan. Presented and published at the ASEE Annual Conference in Portland, OR (June, 2024). (Peer-reviewed)
4. **Omur-Ozbek, P. 2023.** Exploring Social and Environmental Justice and Ethics in the Classroom. 2023 ASEE Rocky Mountain Section Conference, Golden CO (May). (Peer-reviewed)
5. **Omur-Ozbek, P. 2023.** Enhancing STEM Education with a Global and Interdisciplinary Perspective: Developing and Teaching a Course on Global Water Challenges through an International Collaboration. 2023 ASEE Rocky Mountain Section Conference, Golden CO (May). (Peer-reviewed)
6. Clayton, P.; Castaneda, D.; Palomo, M.; Rodak, C.; Kulesza, S.; **Omur-Ozbek, P. 2022**. ASCE's Response to the Pandemic: A Virtual ExCEEd Community Exchange. 2022 ASEE Annual Conference & Exposition, Civil Engineering Division ASCE Liaison Committee - Supporting the Development of the Next Civil Engineers, Minneapolis, MN. (June). (Peer-reviewed)
7. Morse, A.; Clayton, P.; Rodak, C.; Henschen, J.; **Omur-Ozbek, P**.; Riley, C.; Saftner, D.; Cioffi, A. **2022**. ASCE's Response to the Pandemic: Development of a Remote ExCEEd Teaching Workshop. 2022 ASEE Annual Conference & Exposition, Civil Engineering Division ASCE Liaison Committee - Supporting the Development of the Next Civil Engineers, Minneapolis, MN. (June). (Peer-reviewed)
8. Estes, A.; Salyards, K.; Saviz, C.; Clayton, P.; Davis, J.; Fleischmann, C.; Nilsson, T.; **Omur-Ozbek, P**.; Ozis, F.; Palomo, M.; Rodak, R.; Rutherford, C.; Torres-Machi, C.; Coward, D.; Nolen, L. **2022**. ASCE's Response to the Pandemic: Execution of a Remote ExCEEd Teaching Workshop. 2022 ASEE Annual Conference & Exposition, Civil Engineering Division ASCE Liaison Committee - Supporting the Development of the Next Civil Engineers, Minneapolis, MN. (June). (Peer-reviewed)
9. Ghorbani, M.; Maciejewski, A.A.; Siller, T.J.; Chong, E.K.P.; **Omur-Ozbek, P**.; Atadero, R.A. **2018**. Incorporating ethics education into an electrical and computer engineering undergraduate program. 2018 ASEE Annual Conference & Exposition, Engineering Ethics Division, Technical Session 5, Salt Lake City, UT. (June). (Peer-reviewed)

10. Akalp, D., Ozbek, M.E., **Omur-Ozbek, P. 2017**. Construction Management Students' Perceptions on Work-Life Balance. ISEC-9-The Ninth International Structural Engineering and Construction Conference Valencia, Spain. (July). (Peer-reviewed)
11. **Omur-Ozbek, P.**; Akalp, D.; Whelton A. **2016**. Tap Water and Indoor Air Contamination due to an Unintentional Chemical Spill in Source Water. Euro-Med-Sec, Istanbul, Turkey (May). Interaction between Theory and Practice in Civil Engineering and Construction, Edited by: Komurlu, R.; Gurgun, A.P.; Singh, A.; Yazdani, S. ISEC Press, 597-602. ISBN: 978-0-9960437-2-4.
12. **Omur-Ozbek, P.**; Dietrich, A.M. **2008**. Metallic Flavored Drinking Water with Iron and Copper. AWWA WaterJAM, Virginia Beach, VA (September).
13. Tucker, C.L.; **Omur-Ozbek, P.;** Dietrich, A.M. **2007**. Determination of the ~~Taste~~ Flavor Threshold of Iron in Water. VWWRS, Blacksburg, VA (November).
14. **Omur-Ozbek, P.**; Dietrich, A.M. **2007**. Finding an Odor Standard for the Flavor Profile Analysis of Drinking Water. AWWA WQTC, Charlotte, NC (November).
15. **Omur-Ozbek, P.**; Little, J.; Dietrich, A.M. **2005**. Ability of Humans to Smell Major Odorants in Indoor Air When Using Contaminated Drinking Water. 7th IWA Specialty Symposium, Cornwall, Ontario, Canada (October).
16. **Omur-Ozbek, P.**; Dietrich, A.M. **2004**. FPA Intensity Does Not Always Correlate with Vapor or Aqueous Phase Concentration of Problematic Odorous Compounds. AWWA WQTC, San Antonio, TX (November).

Technical Report

1. IWA Specialist Group including: **Omur-Ozbek, P. 2018.** Tastes, Odours, and Algal Toxins in Drinking Water Resources and Aquaculture. As a part of the report: Global Trends & Challenges in Water Science, Research and Management.

Oral and Poster Presentations

1. **Omur-Ozbek, P.**; Atadero, R.; Agha, W.; Hedayati, A. **2024**. Navigating Ethical Dilemmas in Civil and Environmental Engineering: Ethical Case Studies based on Experiences of Early Career Engineers. Presented at the ASEE Annual Conference in Portland, OR (June, 2024).
2. Agha, W.; Atadero, R.; Hedayati, A.; **Omur-Ozbek, P**. **2024**. Early-Career Engineers' Experiences with Equity and Ethics in the Workplace. Presented at the ASEE Annual Conference in Portland, OR (June, 2024).
3. **Omur-Ozbek, P. 2024.** Enhancing Engineering Students' Cultural Competence through a Transnational Course. Lightning Talk. 2024 ASEE RMS Conference, Boulder, CO (May).
4. Lennie, K.; Gardner, T.; **Omur-Ozbek, P. 2024.** Assessing Engineering Students' Competence in Social and Environmental Justice Through Global Water Challenges Discussions. Poster Presentation. 2024 ASEE RMS Conference, Boulder, CO (May).
5. **Omur-Ozbek, P. 2023.** Exploring Social and Environmental Justice and Ethics in the Classroom. 2023 ASEE Rocky Mountain Section Conference, Golden, CO (May).
6. **Omur-Ozbek, P. 2023.** Enhancing STEM Education with a Global and Interdisciplinary Perspective: Developing and Teaching a Course on Global Water Challenges through an International Collaboration. 2023 ASEE RMS Conference, Golden, CO (May).
7. **Omur-Ozbek, P. 2023.** Infusing your class with social and environmental justice and ethics discussions – Professional Development Institute, CSU (Jan). Fort Collins, CO.
8. **Omur-Ozbek, P. 2023.** Water, Food, Health, Environment, and Social Justice: Engineering's Roles and Contributions" "Global Outreach: A Course About Global Water Challenges With TIIAME in Tashkent, Uzbekistan, and Bridging Toward Future Study Abroad Programs". International Symposium at CSU, 2/27-3/1, 2023. Neil Grigg, Pinar Omur-Ozbek, Ellison Carter, Jeff Niemann.

9. **Omur-Ozbek, P. 2023.** When Fire Meets Water: Addressing Smoky Flavors in Tap Water Due to Wildfires in the United States. March 21, 2023. Pinar Omur-Ozbek, 43rd Annual AGU Hydrology Days, March 21-22, 2023. Fort Collins, CO.
10. **Omur-Ozbek, P. 2022.** Promoting environmental justice awareness under the umbrella of diversity, equity and inclusion. Oral presentation at the RMSAWWA/RMWEA Conference in Keystone, CO (September).
11. Nezat, C.; **Omur-Ozbek, P. 2019**. Algal Toxins in Agricultural Environments: Implications for Human Health. Hydrology Days. Fort Collins, CO. (March).
12. Nezat, C.; **Omur-Ozbek, P. 2018**. Determining fate and transport of cyanotoxins in the environment. Modeling for Sustainable Food-Energy-Water Systems. 9th International Congress on Environmental Modeling and Software. Fort Collins, CO, (June).
13. **Omur-Ozbek, P. 2016.** Detection of Cyanotoxins in Environmental Samples. Oral presentation at the RMSAWWA/RMWEA Conference in Keystone, CO (September).
14. Akalp, D.; **Omur-Ozbek, P.**; Whelton A. **2016**. Indoor Air Contamination due to an Unintentional Chemical Spill in Elk River, Lessons Learned. Oral presentation at the AWWA ACE Conference in Chicago, IL (June).
15. **Omur-Ozbek, P.**; Akalp, D.; Whelton A. **2016**. Tap Water and Indoor Air Contamination due to an Unintentional Chemical Spill in Source Water. Oral presentation at the Euro-Med-Sec. Interaction between Theory and Practice in Civil Engineering and Construction Conference in Istanbul, Turkey (May).
16. **Omur-Ozbek, P.**; Kim, S.; Carlson, K. **2016**. Investigating the impacts of well age and fracturing fluid type on the quality and treatability of the produced water. Oral presentation at the 251st ACS National Meeting and Exposition in San Diego CA (March).
17. Kim, S.; **Omur-Ozbek, P.**; Carlson, K. **2016**. Comparison of organic matter in fresh and recycled water after simulation of fracturing conditions. Oral presentation at the 251st ACS National Meeting and Exposition in San Diego CA (March).
18. **Omur-Ozbek, P. 2015.** Impacts of Wildfires and Fire Retardants on Water Quality. Oral presentation at the RMSAWWA/RMWEA Conference in Loveland, CO (September).
19. Sampath, M.; **Omur-Ozbek, P. 2015.** Evaluation of Oxidation and Adsorption Techniques for Taste & Odor and Toxin Removal. Oral presentation at the RMSAWWA/RMWEA Conference in Loveland, CO (September).
20. Hohner, A.K.; Cawley, K.; **Omur-Ozbek, P.**; Summers, R. S.; Rosario-Ortiz, F.L. **2014.** Assessing Wildfire Impacted Source Water Quality and Treatability through a Lab-based Leaching Study. Oral presentation at the AWWA WQTC Conference in New Orleans, LA (November).
21. Morgensen, B.; **Omur-Ozbek, P. 2014.** Effects of Wildfire Retardants on Surface Water Quality. Oral presentation at the 34th Hydrology Days, Fort Collins, CO (March).
22. Zhang, Y.; **Omur-Ozbek, P. 2014.** Occurrence of Cyclic Volatile Methylsiloxanes in Surface Waters. Oral presentation at the 34th Hydrology Days, Fort Collins, CO (March).
23. **Omur-Ozbek, P. 2013.** Impacts of the High Park Fire on Cache la Poudre River Water Quality. Oral presentation at the RMSAWWA Conference in Keystone, CO (September).
24. **Omur-Ozbek, P. 2013.** Impacts of Wildfires on Water Quality. Oral presentation at the AWWA ACE Conference in Denver, CO (June).
25. **Omur-Ozbek, P. 2013.** Global Taste and Odor Survey of Drinking Water Utilities. Poster presentation at the AWWA ACE Conference in Denver, CO (June).
26. Steninger, C.; **Omur-Ozbek, P. 2013.** Impacts of High Park Fire on River Water Quality. Oral presentation at the 33rd Hydrology Days, Fort Collins, CO (March).
27. Parr, G.; **Omur-Ozbek, P. 2013.** Predictive Modeling of Geosmin, a Taste and Odor Compound, in Northern Colorado Water Supplies. Oral presentation at the 33rd Annual American Geophysical Union Hydrology Days, Fort Collins, CO (March).

28. **Omur-Ozbek, P.**; Koester, K.; Billica, J. **2012**. Modeling Geosmin Removal by Powdered Activated Carbon over Selected Doses and Contact Times. Poster presentation at the AWWA WQTC Conference in Ontario, Canada (November).
29. Venkatapathi, K.; **Omur-Ozbek, P.**; McGee, J. **2012**. Nutrients: Bring it on! Planning for the New Nutrient Management Control Regulations Using BioWin Biological Nutrient Removal Simulations for the Loveland WWTP. Oral Presentation at the RMSAWWA/RMWEA Joint Annual Conference in Copper Mountain, CO (September).
30. Sam, V.; **Omur-Ozbek, P. 2012**. Removal of Odorous and Toxic Algal Metabolites of Concern Using Powdered Activated Carbon. Invited Poster Presentation at AWWA ACE Conference in Washington, D.C. (June).
31. Sam, V.; **Omur-Ozbek, P. 2012**. Removal of Algal Metabolites of Concern Using Powdered Activated Carbon. Poster Presentation at the 9th Annual Joint RMWEA/RMSAWWA Student Conference. University of Colorado at Boulder, CO (May).
32. Kulkarni, H.; **Omur-Ozbek, P.**; McGee, J. **2012.** Determination of two Cyclosiloxanes and their Removal by Advanced Oxidation. Poster Presentation at the 9th Annual Joint RMWEA/RMSAWWA Student Conference. University of Colorado at Boulder, CO (May).
33. Venkatapathi, K.; **Omur-Ozbek, P.**; McGee, J. **2012**. Surface Water Eutrophication, Nutrient Management Control Regulations and Their Implications on Wastewater Treatment Plants' Operation. Poster Presentation at the 9th Annual Joint RMWEA/RMSAWWA Student Conference. University of Colorado at Boulder, CO (May).
34. Sam, V.; **Omur-Ozbek, P. 2012**. The occurrence and Removal of the Cyanobacterial Metabolites Microcystin-LR and Geosmin from Source Waters. Oral presentation at the 32nd Annual American Geophysical Union Hydrology Days, Fort Collins, CO (March).
35. Kulkarni, H.; **Omur-Ozbek, P.**; McGee, J. **2012**. Determination of Two Siloxanes in Waste Activated Sludge and their Removal by Advanced Oxidation. Oral presentation at the 32nd Annual American Geophysical Union Hydrology Days, Fort Collins, CO (March).
36. **Omur-Ozbek, P. 2011**. Sensory and Analytical Methods to Detect Off-Flavors in Source and Drinking Water. Sunday Workshop oral presentation at the AWWA WQTC Conference in Phoenix, AZ (November).
37. **Omur-Ozbek, P. 2011**. Off-Tastes and Odors in Drinking Water. Oral presentation at the RMSAWWA/RMWEA Joint Conference in Loveland, CO (September).
38. **Omur-Ozbek, P. 2011**. Simultaneous Removal Geosmin and Microcystin-LR with Moringa Oleifera Seed Extracts and Powdered Activated Carbon. Poster presented at the ACS National meeting in Denver, CO (August).
39. **Omur-Ozbek, P. 2011**. A review of Occurrence and Mitigation of Algal Odorants and Toxins in Surface Waters. Oral presentation at the 31st Annual American Geophysical Union Hydrology Days, Fort Collins, CO (February).
40. Koester, K.; **Omur-Ozbek, P. 2011**. Removal of Odorous Algal Metabolite from Horsetooth Reservoir Water by Powdered Activated Carbon. Oral presentation at the 31st Annual American Geophysical Union Hydrology Days, Fort Collins, CO (February).
41. Dietrich, A.M.; **Omur-Ozbek, P. 2010**. Nutritional and Off-flavor Aspects of Metals in Drinking Water. Oral presentation at the 241th ACS National Meeting, Boston, MA (Aug).
42. Koester, K.; **Omur-Ozbek, P. 2010**. Removal of Algal Metabolites by Activated Carbon. Poster presentation at the Water Science Day, Boulder, CO (June).
43. **Omur-Ozbek, P.**; Dietrich, A.M. **2009**. Taste of Metals in Drinking Water. Oral presentation at the AWWA ACE, San Diego, CA (June).
44. **Omur-Ozbek, P.**; Dietrich, A.M.; Duncan, S.E.; Lee, Y.W. **2008**. Metallic Flavor of Iron and Copper in Drinking Water. Poster presented at the 8th IWA Specialty Symposium, Seoul, South Korea (October).

45. **Omur-Ozbek, P.**; Dietrich, A.M. **2008**. Developing an Odor Standard for Sensory Analysis of Drinking Water. Poster presented at the 24th GSA Annual Research Symposium, Virginia Tech, Blacksburg, VA (March).
46. **Omur-Ozbek, P.**; Dietrich, A.M.; Duncan, S.E.; Lee, Y.W. **2007**. Metallic Flavor is caused by Lipid Oxidation in Mouth. Poster presented at the MILES/MII Research Symposium, Virginia Tech, Blacksburg, VA (October)
47. **Omur-Ozbek, P.**; Dietrich, A.M.; Duncan, S.E.; Lee, Y.W. **2007**. Metallic Flavor is caused by Lipid Oxidation in Mouth. Poster presented at the Dean's Forum, Virginia Tech, Blacksburg, VA (November).
48. **Omur-Ozbek, P.**; Dietrich, A.M. **2007**. Role of Metals in Health and Flavor of Drinking Water. Oral presentation at the AEESP Conference, Blacksburg, VA (July).
49. **Omur-Ozbek, P.**; Dietrich, A.M.; Duncan, S.E.; Lee, Y.W. **2006**. Metallic Flavor as a Result of Lipid Oxidation in Mouth Catalyzed by Metals. Poster presented at the 22nd GSA Annual Research Symposium, Virginia Tech, Blacksburg, VA (March).
50. **Omur-Ozbek, P.**; Dietrich, A.M.; Duncan, S.E.; Lee, Y.W. **2005**. Metallic Flavor as a Result of Lipid Oxidation in Mouth Catalyzed by Metals. Poster presented at the MII Research Symposium, Virginia Tech, Blacksburg, VA (August).
51. **Omur-Ozbek, P.**; Dietrich, A.M. **2003**. Odorous and Annoying Algal Products in Drinking Water. Oral presentation at the VWWRS, Blacksburg, VA (October).

Webcasts

1. Taste and Odor Challenges and Solutions. AWWA TEC Webcast. August **2014**.
2. An Update on Causes and Solutions for Taste-and-Odor Issues in Source and Drinking Waters. AWWA TEC Webcast. October **2012**.

Invited Presentations

1. Breaking Barriers While Building Bridges: Empowering Women in STEM Through Democracy and Equity.
   CSU Year of Democracy: Gender and Democracy Panel: Gamze Cavdar, Courtenay Daum, Sarah Haneke, Sue Doe, Sushmita Chatterjee, Pinar Omur-Ozbek. March **2024**.
2. Navigating the Interconnected World of Water, Food, Health, Energy and Sustainability.
   Universidade de Pernambuco (UPE) Brazil, February 23, **2023**. Online seminar.
3. Motivating and Empowering Students
   ASCE ExCEEd Community Exchange Seminar Series. March **2022**.
4. Adapting In-Class Activities (Demos) to an Online Environment.
   ASCE ExCEEd Community Exchange Seminar Series. October **2020**.
5. Disasters Bring Disastrous Water Quality.
   ASCE Northern Colorado Branch General Meeting. May **2015**.
6. Disasters Bring Disastrous Water Quality.
   CWI Interdisciplinary Water Resources Seminar. February **2014**.
7. Smelly and Toxic! What Happened to the Beautiful Lake?
   NREL Seminar Series, Fort Collins CO. October **2013**.
8. Sensory and Analytical Methods for Drinking Water Analysis.
   BTWF Watershed Conference, Greeley, CO. February **2013**.
9. Flavor of Drinking Water.
   New Belgium Seminar, Fort Collins, CO. September **2012**.
10. Sensory and Analytical Methods for Drinking Water Analysis.
    Taste and Odor Workshop, Erie, CO. February **2012**.

11. Off-Flavors, Their Occurrence and Treatment.
    CU Boulder, CO. October **2011**.
12. Flavor of Drinking Water.
    Front Range Drinking Water Consortium, Westminster, CO. September **2011**.
13. Off-Flavors in Drinking Water.
    CSU CEE Department Internal Advisory Board Meeting, Fort Collins, CO. April **2011**.
14. Flavors of drinking water.
    Beet Street Culture Café Series – Science Café, Fort Collins, CO. June **2010.**
15. Testing Drinking Water with Humans: Flavor Profile Analysis.
    CHWMS Lunch Series, Denver, CO. May **2010.**
16. Analyzing Drinking Water with Humans: The Flavor Profile Analysis Method.
    CSU Innovations Breakfast, Denver, CO. March **2010.**

TEACHING EXPERIENCE AND INTERESTS

Course and Curriculum Development

Restructured CIVE 441 to increase content and credit hours from 1 to 3 credits
Restructured CIVE 438 to improve focus and reduce credits from 4 to 3
Restructured CIVE 438 to focus content on general engineering
Created CIVE 339 to improve focus and content coverage for environmental engineers
Created CIVE 421 to add an interdisciplinary and transnational technical elective course
Helped develop ENGR 180A2 to improve success, belonging and retention of first year engineering students

Classes Taught

CIVE 438 Fundamentals of Environmental Engineering at CSU **Fall 2024**
3 Credits, Student evaluation: N/A (20 & 16 students are enrolled)
CIVE 438 Fundamentals of Environmental Engineering at CSU – ONLINE **Fall 2024**
3 Credits, Student evaluation: N/A (3 students are enrolled)
CIVE 439 Applications of Environmental Engineering Concepts at CSU **Fall 2024**
3 Credits, Student evaluation: N/A (41 students are enrolled)
ENGR 180 A2 Engineering Your Success **Fall 2024**
1 Credit, Student evaluation: N/A (29 students were enrolled)
CIVE 339 Environmental Engineering Concepts at CSU **Spring 2024**
3 Credits, Student evaluation: N/A (44 students were enrolled)
CIVE 405 Sustainability for Civil and Environmental Engineers at CSU **Spring 2024**
3 Credits, Student evaluation: N/A (34 (+2 Online) students were enrolled)
CIVE 421 Global Water Challenges at CSU **Spring 2024**
3 Credits, Student evaluation: N/A (22 (+3 Online) students were enrolled)
CIVE 438 Fundamentals of Environmental Engineering at CSU – ONLINE **Spring 2024**
3 Credits, Student evaluation: N/A (2 students were enrolled)
CIVE 438 Fundamentals of Environmental Engineering at CSU **Fall 2023**
3 Credits, Student evaluation: N/A (37 & 12 students were enrolled)
CIVE 438 Fundamentals of Environmental Engineering at CSU – ONLINE **Fall 2023**
3 Credits, Student evaluation: N/A (1 student was enrolled)
CIVE 439 Applications of Environmental Engineering Concepts at CSU **Fall 2023**

3 Credits, Student evaluation: N/A (39 students were enrolled)

ENGR 180 A2 Engineering Your Success – Pilot at CSU **Fall 2023**

1 Credit, Student evaluation: N/A (27 students were enrolled)

CIVE 339 Environmental Engineering Concepts at CSU **Spring 2023**

3 Credits, Student evaluation: N/A (36 students were enrolled)

CIVE 441 Water Quality Analysis and Treatment at CSU **Spring 2023**

3 Credits, Student evaluation: N/A (54 students were enrolled)

CIVE 438 Fundamentals of Environmental Engineering at CSU – ONLINE **Spring 2023**

3 Credits, Student evaluation: N/A (3 students were enrolled)

CIVE 438 Fundamentals of Environmental Engineering at CSU **Fall 2022**

3 Credits, Student evaluation: N/A (31 & 21 students were enrolled)

CIVE 438 Fundamentals of Environmental Engineering at CSU – ONLINE **Fall 2022**

3 Credits, Student evaluation: N/A (2 students were enrolled)

CIVE 439 Applications of Environmental Engineering Concepts at CSU **Fall 2022**

3 Credits, Student evaluation: N/A (46 students were enrolled)

CIVE 480 A4 Global Water Challenges – Experimental at CSU **Fall 2022**

3 Credits, Student evaluation: N/A (18 students were enrolled)

CIVE 339 Environmental Engineering Concepts at CSU **Spring 2022**

3 Credits, Student evaluation: N/A (45 students were enrolled)

CIVE 441 Water Quality Analysis and Treatment at CSU **Spring 2022**

3 Credits, Student evaluation: N/A (35 students were enrolled)

CIVE 438 Fundamentals of Environmental Engineering at CSU – ONLINE **Spring 2022**

3 Credits, Student evaluation: N/A (3 students were enrolled)

CIVE 438 Fundamentals of Environmental Engineering at CSU **Fall 2021**

3 Credits, Student evaluation: N/A (44 & 29 students were enrolled)

CIVE 439 Applications of Environmental Engineering Concepts at CSU **Fall 2021**

3 Credits, Student evaluation: N/A (35 students were enrolled)

CIVE 339 Environmental Engineering Concepts at CSU **Spring 2021**

3 Credits, Student evaluation: N/A (36 students were enrolled)

CIVE 438 Fundamentals of Environmental Engineering at CSU **Spring 2021**

3 Credits, Student evaluation: N/A (28 & 12 students were enrolled)

CIVE 438 Fundamentals of Environmental Engineering at CSU – ONLINE **Spring 2021**

3 Credits, Student evaluation: N/A (1 student was enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Fall 2020**

3 Credits, Student evaluation: N/A (43 & 32 students were enrolled)

CIVE 439 Applications of Environmental Engineering Concepts at CSU **Fall 2020**

3 Credits, Student evaluation: N/A (28 students were enrolled)

CIVE 339 Environmental Engineering Concepts at CSU **Spring 2020**

3 Credits, Student evaluation: N/A (22 students were enrolled)

CIVE 438 Fundamentals of Environmental Engineering at CSU **Spring 2020**

3 Credits, Student evaluation: N/A (36 & 16 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Fall 2019**

3 Credits, Student evaluation: N/A (40 & 37 students were enrolled)

CIVE 439 Environmental Engineering Concepts at CSU **Fall 2019**

3 Credits, Student evaluation: N/A (31 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Spring 2019**

3 Credits, Student evaluation: N/A (58 & 43 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Fall 2018**

3 Credits, Student evaluation: 3.9 (59 students were enrolled)

CIVE 439 Environmental Engineering Concepts at CSU **Fall 2018**

3 Credits, Student evaluation: 3.9 (30 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Spring 2018**

3 Credits, Student evaluation: 4.0 (61 students were enrolled)

WR 418 Land Use and Water Quality at CSU **Spring 2018**

3 Credits, Student evaluation: 4.1 (41 students were enrolled)

WR 419 Water Quality Laboratory for Wildland Managers at CSU **Spring 2018**

3 Credits, Student evaluation: 4.0 (21 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Fall 2017**

3 Credits, Student evaluation: 4.2 (44 students were enrolled)

CIVE 439 Environmental Engineering Concepts at CSU **Fall 2017**

3 Credits, Student evaluation: 4.3 (27 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Spring 2017**

3 Credits, Student evaluation: 4.4 (63 students are enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Fall 2016**

3 Credits, Student evaluation: 4.4 (63 students were enrolled)

CIVE 439 Environmental Engineering Concepts at CSU **Fall 2016**

3 Credits, Student evaluation: 3.9 (25 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Spring 2016**

3 Credits, Student evaluation: 3.7 (51 students were enrolled)

CIVE 330 Environmental Engineering Concepts at CSU **Spring 2016**

3 Credits, Student evaluation: 3.9 (21 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Fall 2015**

3 Credits, Student evaluation: 4.5 (62 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Spring 2015**

3 Credits, Student evaluation: 3.5 (59 students were enrolled)

ENVE 441 Water Quality Analysis and Treatment at CSU **Spring 2015**

3 Credits Student evaluation: 3.1 (32 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Spring 2014**

3 Credits, Student evaluation: 4.2 (44 students were enrolled)

ENVE 441 Water Quality Analysis and Treatment at CSU **Spring 2014**

3 Credits Student evaluation: 4.1 (16 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Fall 2013**

3 Credits, Student evaluation: 4.2 (61 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Spring 2013**

3 Credits, Student evaluation: 4.6 (33 students were enrolled)

ENVE 441 Water Quality Analysis and Treatment at CSU **Spring 2013**

3 Credits Student evaluation: 5 (10 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Fall 2012**

3 Credits, Student evaluation: 4.4 (42 students were enrolled)

Graduate Seminar Improving Teaching Skills - ExCEEd **Fall 2011/Spring 2012**

1 Contact hour, Unofficial seminar series (25 students)

CIVE 438 Environmental Engineering Concepts at CSU **Spring 2012**

3 Credits, Student evaluation: 4.5 (79 students were enrolled)

ENVE 441 Water Quality Analysis and Treatment at CSU **Spring 2012**

3 Credits Student evaluation: 4.7 (18 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Spring 2011**

3 Credits, Student evaluation: 4.3 (66 students were enrolled)

ENVE 441 Water Quality Analysis and Treatment at CSU **Spring 2011**

3 Credits Student evaluation: 4.3 (15 students were enrolled)

CIVE 438 Environmental Engineering Concepts at CSU **Spring 2010**

3 Credits, Student evaluation: 3.9 (42 responses out of 61 students enrolled)

*This course was revised in 2010 to reduce the credit hours from 4 to 3.

ENVE 441 Water Quality Analysis and Treatment at CSU **Spring 2010**

3 Credits Student evaluation: 4.3 (18 responses out of 18 students enrolled)

*This course was revised in 2010 to increase the credit hours from 1 to 3.

CIVE 438 Pollution Control Engineering at CSU **Spring 2009**

4 Credits, Student evaluation: 4.3 (36 responses out of 48 students enrolled)

ENVE 441 Water and Wastewater Characterization Laboratory at CSU **Spring 2009**

1 Credit, Student evaluation: 5 (6 responses out of 6 students enrolled)

*Graduate level class sessions for CEE 5104 Environmental Chemistry at VT **2005-2008**

Workshops Taught

- Taste and Odor Workshop **April 2016**
  Workshop Instructor, Fort Collins, CO (AWWA Water Treatment Committee)
- Taste and Odor Workshop **May 2014**
  Workshop Instructor, Wellington, CO
- Taste and Odor Workshop **February 2012**
  Workshop Instructor, Erie, CO (AWWA Water Treatment Committee)
- "Diagnosing Taste and Odor Problems" **November 2011**
  Workshop organizer and presenter at AWWA WQTC, Phoenix, AZ
- Taste and Odor Workshop **Oct 2010, May 2011**
  Workshop Instructor, Fort Collins, CO (AWWA Water Treatment Committee)
- Taste and Odor Workshop **March 2011**
  Workshop Instructor, Morgan County, CO
- Flavor Profile Analysis **Nov 2009, April 2010**
  Workshop Instructor, Fort Collins, CO and Loveland, CO
- Beyond TON: New Methods for Improved Sensory Analyses of Drinking Water **July 2006**
  Workshop Instructor at AWWA/VWEA Good Laboratory Practices Symposium Charlottesville, VA
- Sensory Analysis of Water: Controlling Geosmin, 2-MIB and other Odorants **Oct 2005**
  Workshop Instructor at 7th IWA Specialty Symposium, Cornwall, Ontario, CA
- "Flavor Profile Analysis" **2004, 2005, and 2006**
  Workshop Instructor, Virginia Tech, Blacksburg, VA

- "Attribute Rating, Two-out-of-Five, and Distribution Rating Tests for Analyzing Water Quality" **Nov 2003**
  Workshop assistant at AWWA WQTC, Philadelphia, PA

Teaching Interests

- Environmental Engineering Concepts
- Global Water Challenges
- Analytical and Sensory Analysis of Environmental Samples
- Water and Wastewater Treatment – Unit Operations and Design
- Environmental and Social Justice
- Engineering (and Environmental) Ethics
- Sustainable Development with Focus on Water, Health, Food, and Energy
- Environmental Aquatic Chemistry
- Ecological Engineering
- Pollution Prevention/Cleaner Production

SERVICE AND OUTREACH

Service

- CSU Faculty Council Principles of Community Taskforce, member **Spring 24**
- ASEE RMS, current chair elect **Fall 23 – present**
- ASCE Committee on Faculty Development, current chair **Fall 2020 – present**
- Undergraduate Instruction Committee, member **Fall 2018 – present**
- Accreditation committee, member **Fall 2020 – present**
- WSCOE Engineering Education Taskforce, member **Fall 2022 – present**
- CSU University Assessment Council, member **Summer 2023 – present**
- SOGES Curriculum Committee, member **Fall 2019 – present**
- WSCOE Silver Medal Award Committee Member (CSU) **Fall 2009 – present**
- Faculty Council Member **Fall 2019 – present**
- WSCOE Assessment and Enrichment Coordinator Search Committee **Spring 2023**
- TILT Instructional Designer Search Committee **Fall 2022**
- NTTF Promotion Committee **Spring and Fall 2020**
- WSCOE College Code Review and Update Committee **AY 19-20**
- NTTF Committee **Fall 2019-2023**
- Project Advisory Committee Member for WRF **2009 – 2012, 2018 - 2023**
- NTTF Search Committee **2018 and 2019**
- WSCOE GTF Program Coordinator **AY 2018 - present**
  Supervised 39 Ph.D. students that were a part of the program.
- ASCE ExCEEd Teaching Workshop Mentor **2011-present**
- Ethics PLI Session Presenter for WSCOE **2013 - 2019**
  ECE KIs, ECE, CBE and CEE Senior Design
- Ecosystem Science and Sustainability search committee member **Fall 2016- Spring 2017**
- Faculty advisor to Chi Epsilon Student Chapter **Fall 2013 – present**
- Faculty advisor to Environmental Engineering Society **Fall 2013 – Spring 2020**
- Faculty organizer and presenter at "Improving Teaching Skills Seminar Series" **AY 18-19**

- PRW Internship Program, STEM Academy at Fossil Ridge Highschool Mentor to Ms. Sophie Elliot in **2016** and Ms. Breanna Jane in **2017** and Mr. Blake Knipple in **2018** and Ms. Gabrielle Dunn in **2019**
- AWWA Taste and Odor Committee Chair **June 2011- June 2014**
- Senior Design advisor **Fall 2013 and Spring 2014**
- Senior Design advisor for two groups **Fall 2012 and Spring 2013**
- Departmental search committee member **Fall 2012**
- AWWA WQTC Special Topics Session Moderator **November 2012**
- College Scholarship Committee **Spring 2012-Fall 2014**
- Graduate Instruction Committee **Fall 2011 – Spring 2016**
- AWWA WQTC Workshop Organizer, Moderator **November 2011**
- Judge at the Drinking Water Taste Test **September 2011, 2015, 2018, 2019**

  Acted as a judge to taste and rate the water samples sent by the drinking water utilities in Mountain Region at AWWA Annual Conference (featured in news article: http://www.aurorasentinel.com/email_push/news/article_0d5b15c6-e54e-11e0-a780-001cc4c002e0.html
- Internal Advisory Committee Member (CSU) **November 2010 – August 2011**
- Judge at the Best of Best Taste Test **June 2010**

  Acted as a judge to taste and rate the water samples sent by the drinking water utilities around US at American Water Works Association's Annual Conference (featured in news article: http://www.jsonline.com/business/96925609.html
- Advisor (CSU) **September 2009**

  Coordinated a half-day seminar and laboratory session for recruiting students to EWB.
- Mentor (VT) **Summer 2008**

  Mentored two undergraduate students during the NSF SURP (summer undergraduate research program) with designing and conducting experiments and preparing a literature review and a manuscript. Co-authored the proceedings paper.
- Mentor (VT) **Summer 2007**

  Mentored an undergraduate student during the summer NSF REU (research experiences for undergraduates) program with designing and conducting experiments and preparing a literature review and a manuscript. Co-authored the proceedings paper.
- Journal Reviewer
  - Chemical Senses
  - Nature Water
  - Water Reuse
  - Environmental Science and Technology
  - Water Research
  - Water Supply
  - Journal of Chemical Engineering
  - Water
  - Toxins
  - Journal of Desalination and Water Quality
  - Journal of Environmental Technology
  - Environments
  - Water Science and Technology
  - Chemosphere
  - Journal of American Water Works Association
  - Journal of Environmental Earth Sciences

- Journal of Environmental Toxicology
- Journal of Clinical Oral Investigations
- Journal of Environmental Management
- Desalination and Water Treatment
- Communications: Water & Earth

Outreach

- Inclusive STEM Teaching Project – CIRTL, Workshop Affinity Group Facilitator **Fa23, Sp24**
- Panelist at IAGE (Introduce a Girl to Engineering) **April 2021, 2023, 2024**
- Panelist at PROGRESS WSCOE Women in Engineering Workshop **February 2020**
  Presented and answered questions on "What Mentoring Means to Me"
  Signed up to mentor Ms. Sophie Fenn and Ms. Kennedy Hirst
- Presenter-Engineering Exploration Days **Fa11-Sp15, Sp&Fa 2019, 2020, Fa22, Fa23**
- Instructor (CSU-WISDOM) **November 2010**
  Gave a short lecture to middle school students on water quality followed by experiments to analyze several water samples.
- Lab Instructor **January 2010**
  Gave a short lecture to middle school students on metals in drinking water followed by experiments to analyze several water samples to test for iron and copper.
- Science Camp Instructor (CSU-ELC) **November 2009, 2010**
  Conducted water quality experiments during a half-day father-daughter day science camp to attract interest of female middle school students to environmental engineering and science field.
- Science Summer Camp Instructor **July 2006 and 2007**
  Conducted experiments and instructional sessions for the middle school students during week long Let's Think Radically Chemistry Camp in conjunction with NSF-IGERT training.
- Open House Instructor **June 2005**
  Conducted experiments and instructional sessions for the grade and high school students to attract them to pursue their education in science and engineering.

Consulting

- Corona Environmental Consulting, LLC **December 2021 – April 2022**
- City of Superior **January 2021**
- City of Loveland Water Treatment Plant **Summer 2018, 2019**
- City of Wellington Water Treatment Plant **September 2017**
- City of Greeley Water Treatment Plant **June 2016**
- HDR, Inc. **June 2015**
- Corona Environmental Consulting, LLC **May 2015**
- City of Wellington Water Treatment Plant **April 2014**
- Farnsworth Consulting Company **November 2012**
- Consolidated Mutual Water Company **March 2011**
- Northern Colorado Drinking Water Utilities **2010 - 2020**
- Clear Water Solutions, Inc. **November 2010**
- Morgan County Quality Water District **November 2010**

PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS

- American Water Works Association
- American Society of Civil Engineers
- American Chemical Society
- Association of Environmental Engineering and Science Professors
- American Association for the Advancement of Science
- American Society of Engineering Educators
- Society of Women Engineers
- Chi Epsilon Honor Society

GRADUATE AND UNDERGRADUATE STUDENT ADVISING

Graduate Students

- Ms. Duygu Kalan, Ph.D., graduated Summer 2021
- Mr. Scott Dickmeyer, M.S. Plan B, graduated Fall 2019
- Ms. Caryn Nezat, M.S. Plan A, graduated Fall 2019
- Ms. Natalya Fedchuk, M.S. Plan A, graduated Fall 2017
- Mr. Seongyun Kim, Ph.D., graduated Fall 2017
- Mr. Muthukumaran Sampath, M.S. Plan A, graduated Spring 2017
- Mr. Patrick Brice, M.S. Plan B, graduated Fall 2016
- Mr. Brent Morgensen, M.S. Plan A, graduated Fall 2016
- Mr. Omar Alrehaili, M.S. Plan B, graduated Spring 2016
- Mr. Mohammed Alhussaini, M.S. Plan B, graduated Summer 2015
- Mr. Yazeed Algurainy, M.S. Plan B, graduated Summer 2015
- Mr. Darren Wood, M.S. Plan C, graduated Spring 2015
- Mr. Yu Zhang, M.S. Plan A, graduated Summer 2014
- Mr. Glenn Parr, M.S. Plan A, graduated Summer 2014
- Mr. Keerthivasan Venkatapathi, M.S. Plan A, graduated Summer 2013
- Ms. Clare Steninger, M.S. Plan A, graduated Spring 2013
- Mr. Victor Sam, M.S. Plan A, graduated Fall 2012
- Mr. Harshad Kulkarni, M.S. Plan A, graduated Fall 2012
- Mr. Kirk Koester, M.S. Plan A, graduated Fall 2011

Graduate Committees

- Ms. Nicole Ahrens, Ph. D. (outside member)
- Ms. Korissa Straub, M.S. Plan A (outside member), graduated Summer 2023
- Mr. Armin Saadatian Farivar, M.S. Plan A, (outside member), graduated Spring 2022
- Mr. Kivanc Sabunis, M.S. Plan A, (outside member), defended Fall 2019
- Mr. John Boyle, M.S. Plan A, (outside member), graduated Fall 2019
- Ms. Ashley Sorcic, M.S. Plan A, (outside member), graduated Spring 2019
- Mr. Daniel Workman, M.S. Plan A, (outside member), graduated Fall 2018
- Ms. Huishu Li, Ph.D., graduated Fall 2018
- Ms. Meryem Bingul, Ph.D. (outside member), graduated Summer 2017

- Ms. Sunah Kim, M.S. Plan A, graduated Summer 2017
- Mr. John Butler, M.S. Plan B, graduated Spring 2017
- Ms. Neha Athavale, M.S. Plan B, graduated Spring 2017
- Mr. Oguzhan Kendigelen, M.S. Plan A (outside member), graduated Fall 2016
- Mr. Bing Bai, Ph.D., graduated Fall 2016
- Ms. Nasim Esmaeilirad, Ph.D., graduated Spring 2016
- Mr. Gen Li, M.S. Plan A, graduated Summer 2015
- Mr. Wanze Li, M.S. Plan A, graduated Summer 2015
- Mr. John Ryan Hutcherson, M.S. Plan A, graduated Spring 2015
- Mr. Bradley Sick, M.S. Plan A, graduated Summer 2014
- Mr. Kirk Lake, M.S. Plan A, (outside member), graduated Spring 2014
- Ms. Xi Jiang, M.S. Plan A, graduated Fall 2013
- Mr. Brett Ledeker, M.S. Plan A, graduated Summer 2012
- Ms. Lisa Weber, Ph.D. (outside member), left committee, Spring 2023
- Mr. Anmar Al Rikabi, Ph.D. (outside member), left committee, Fall 2022

Undergraduate Students (Research)

- Ms. Aaliyah Escalera, undergraduate student hourly, Spring 2024 (SURE)
- Ms. Mia Chaves, undergraduate student hourly, Spring 2023 (SURE)
- Ms. Noelle Fillo, undergraduate summer student hourly, Summer 2018/2019
- Ms. Connor Haines, undergraduate summer student hourly, Summer 2018/2019
- Ms. Sterling Marvin, undergraduate summer student hourly, Summer 2018/2019
- Ms. Caryn Nezat, undergraduate summer student hourly, Summer 2016
- Mr. Easton Archibald, undergraduate summer student hourly, Summer 2016
- Ms. Allyssa Brewer, undergraduate summer student hourly, Summer 2015
- Ms. Loranda Herstein, undergraduate summer student hourly, Summer 2014
- Ms. Natalya Fedchuck, undergraduate honors project advisor, Spring 2014
- Ms. Adele Nez, undergraduate honors project advisor, Fall 2012/Spring 2013
- Ms. Rebecca Fink, undergraduate honors project advisor, Fall 2011/Spring 2012
- Mr. Patrick Brice, undergraduate summer student hourly, Summer 2011-2012
- Ms. Rachel Gallagher, undergraduate work study, Spring 2010
- Ms. Meg Hollowed, undergraduate honors project advisor, Spring 2009

Undergraduate Advised Students

- Mr. Luke McCarthy, academic adviser, Spring 2022
- Mr. Reed Rogers, academic adviser, Spring 2022
- Mr. Abdulmohsen Alherz, academic adviser, Fall 2021
- Mr. Connor Barraclough, academic adviser, Fall 2021
- Ms. Paris Eisenman, academic adviser, Fall 2021
- Ms. Stephanie Finley, academic adviser, Fall 2021
- Ms. Hailea Henry, academic adviser, Fall 2021
- Mr. Jack Kearny, academic adviser, Fall 2021
- Ms. Marissa Marti, academic adviser, Fall 2021
- Mr. Daniel Polinski, academic adviser, Fall 2021

- Mr. Spencer Turner, academic adviser, Fall 2021
- Mr. Tony Yuan, academic adviser, Fall 2021
- Ms. Madeline Bartell, academic adviser, Spring 2020
- Ms. Theresa Centola, academic adviser, Fall 2019
- Mr. Isaiah Chavez, academic adviser, Fall 2019
- Mr. Zakri Siegel, academic adviser, Spring 2019
- Ms. Jana Mckinny, academic adviser, Spring 2019
- Ms. Kylie Rasmussen, academic adviser, Fall 2018
- Ms. Sheridyn Randolph, academic adviser, Fall 2018
- Mr. Sam Pierce, academic adviser, Spring 2018
- Mr. Stone Olson, academic adviser, Fall 2018
- Mr. David Vigil, academic adviser, Spring 2018
- Ms. Suzanne McKinley, academic adviser, Spring 2018
- Ms. Jackie LaBelle, academic adviser, Spring 2018
- Ms. Kaori Keyser, academic adviser, Spring 2018
- Mr. Joe Keaveny, academic adviser, Spring 2018
- Mr. Leo Karcz, academic adviser, Spring 2018
- Ms. Lia Clark, academic adviser, Spring 2018
- Mr. Evan Bednar, academic adviser, Fall 2017
- Ms. Hannah Crail, academic adviser, Spring 17
- Mr. Ryan Davis, academic adviser, Spring 17
- Mr. Sam Quinn, academic adviser, Fall 16
- Ms. Cheyenne Maio-Silva, academic adviser, Fall 16
- Ms. Xury Deputy, academic adviser, Fall 16
- Mr. Tyler Cloud, academic adviser, Fall 16
- Mr. Daniel Campbell, academic adviser, Fall 16
- Ms. Camille Wright, academic adviser, Fall 15
- Ms. Emilie Abbott, academic adviser, Fall 15
- Ms. Alexa Kissinger, academic adviser, Fall 15
- Mr. Dawood Alameer, academic adviser, Fall 14
- Ms. Alyssa Brewer, academic adviser, Fall 14
- Mr. Evan Croft, academic adviser, Fall 14
- Mr. Vance Holzmann, academic adviser, Fall 14
- Mr. Christopher Jarrett, academic adviser, Fall 14
- Mr. Dalton Oliver, academic adviser, Fall 14
- Ms. April Tamburelli, academic adviser, Spring 13
- Mr. Sandor Rebek, academic adviser, Spring 2013
- Ms. Lauren Lauritzen, academic adviser, Spring 2013
- Mr. Max Gilliam, academic adviser, Spring 2013
- Ms. Sarah Dixon, academic adviser, Fall 2012
- Ms. Kayla Whitehead, academic adviser, Spring 2012
- Ms. Corrie Houser, academic adviser, Spring 2012

PROFESSIONAL DEVELOPMENT

- KEEN Maker Spark Workshop, **Summer 2024**
- TILT Short Course – Accessible and Inclusive Electronic Content, **Fall 2023**
- Inclusive STEM Teaching Project – CIRTL, Facilitator Training, **Summer 2023**
- TILT Summer Conference, **Summer 2023**
- TILT Short Course – Rethink the Syllabus, **Spring 2023**
- Inclusive STEM Teaching Project – CIRTL, **Fall 2022**
- TILT Short Course – Learning Outcomes and Course Alignment, **Summer 2022**
- TILT Short Course – Rubrics to Support Student Success, **Summer 2022**
- TILT Short Course – Active Learning, **Fall 2021**
- TILT Short Course – Critical Thinking, **Fall 2021**
- TILT Short Course – Inclusive Pedagogy, **Fall 2021**
- TILT Short Course – Planning an Effective Class Session, **Fall 2021**
- Faculty Institute for Inclusive Excellence at CSU by VP for Diversity, **Spring 2021**
- TILT Short Course – Teaching Online, **Summer 2020**
- TILT Short Course – First Four Weeks, **Summer 2020**
- TILT Short Course – Creating Assignments, **Summer 2020**
- TILT Short Course – Student Motivation, **Summer 2020**
- CSU Online Short Course –Designing CSU Online Course, **Summer 2020**
- ASCE ExCEEd Community Exchange Seminars – **Summer and Fall 2020, Fall 2021**
- Creating Inclusive Excellence Program at CSU by VP for Diversity, **Fall 2019**
- Mobile Summer Institute on Teaching Workshop on Scientific Teaching, **2019**
- Master Teacher Initiative, **2018, 2019, 2020, 2022**
- ASEE NETI Workshop, **2017**
- ASCE ExCEEd Teaching Workshop II, **2012**
- TILT Workshop on Problem Based Learning, **2012**
- TILT Workshop on Active Learning, **2011**
- NSF CAREER Proposal Writing Workshop, **2010**
- ASCE ExCEEd Teaching Workshop, **2010**