Modeling Hydrodynamic Conditions in the Upper Niagara River, USA to Assess Feasibility of Emerald Shiner (Notropis atherinoides) Passage
   Isaac Allen, University at Buffalo

Reduction of Membrane Fouling via Surface Modification
   Catalina Alvarado, Rensselaer Polytechnic Institute

Emulsion-base recovery of multicomponent synthetic gasoline mixture using surfactants
   Parnian Baniahmad, Tufts University

Analysis of Geothite Reactivity with Respect to Surface Area
   Grant Bedard, University of Connecticut

Spectroscopic investigation of particle size effects on oxyanion adsorption mechanisms at the goethite-water interface
   Grant Bedard, University of Connecticut

Including Measurements Along Vertical Ray Paths in Crosshole Radar Tomography
   Celicia L. Boyden, University of Connecticut and USGS

A porous medium approach to modelling a microchannel heat exchanger
   Daniel Brady, Worcester Polytechnic Institute

An Automated Method for Testing Process Parameters
   Felice Chan, Cornell University

Flexible Water Treatment BA Electrocoagulation (EC) and Ion Concentration Polarization (ICP) Hybrid System
   Siwon Choi, MIT

Nutrient (ammonia) recovery from anaerobic digestate effluent and re-use as a fertilizer
   Yashodhara Chowdhury, Clarkson University

An evaluation of the hydrologic budget of the Salar de Atacama in northern Chile – Implications for regional groundwater flow
   Lilly Corenthal, University of Massachusetts

Calculating our Estrogen Footprint: Testing a Procedure to Quantify Estrogenic Compounds in Wastewater
   Emily Crossette, Lafayette College

Coliforming a Better World
   Nicole Del Monaco, Rutgers University

Evaluating Polysulfone Ultrafiltration Membranes for Water Purification
   Kerianne M. Dobosz, University of Massachusetts Amherst
LIST OF POSTERS

AguaClara Global Overview
Skyler Erickson, Cornell University

Step Feed Anaerobic Fermentation- A Novel Alternate for Faecal Sludge Processing
Ato Fanyin-Martin, KNUST and Columbia University

Searching for the constraint on the design of inlet diffusers for sedimentation tanks
Casey Garland, Cornell University

Membrane Fabrication from Self-Healing Polyurethanes
Bezawit Getachew, Yale University

Understanding the relative role of droplet straining in controlling emulsion transport within porous media
Somayeh Ghazvinizadeh E., Tufts University

RiverSmart Communities: Deerfield River Watershed Case Study
Nicole Gillett, University of Massachusetts

Ammonia Toxicity on Four Oleaginous Microalgae
James Gutierrez, Yale University

Surface modified activated carbon nanofiber nonwoven as a high surface area sorbent in water treatment
Yi Han, University of Connecticut

Application of DNA Stable Isotope Probing to Identify Trace Organic Contaminant Degrading Microorganisms
Catherine Hoar, Columbia University

Chemical Stratification and Mercury Distribution of Meromictic Glacier Lake
Asante Holder, SUNY ESF

Cometabolism of Beta Blocker Pharmaceuticals during Nitrification and their Inhibition Effects on Nitrifying Bacteria
Amy Hunter, Tufts University

Exploring Beta Blocker Cometabolism by mixed culture biomass communities from Water Resource Recovery Facilities
Amy Hunter, Tufts University

Application of terrestrial laser scanning for wetland microtopography surveys
Kyotaek Hwang, Syracuse University, David G. Chandler, Syracuse University

Climate Change Impacts on the Thermal Stratification of the Wachusett Reservoir
LIST OF POSTERS

New England Graduate Student Water Symposium

Lillian Jeznach, University of Massachusetts, Amherst

Modeling the influence of spatial heterogeneity on bioenhanced dissolution of PCE
Mojdeh Karkhanehchi, Tufts University

Low Impact Development for Cold Regions: Evaluation of SWMM 5.0 Snowmelt Model Against Seasonal Change
Babak Kasaee Roodsari, Syracuse University

Forecasting and assessment of the WARMF model for real time salinity management within the San Joaquin River
Claire Keller, Smith College

Dynamic Pulse-Driven Flowering Phenology in a Semi-arid Shrubland
Natasha Krell, College of the Atlantic

Recirculating Aquaponic Systems
Maya Kutz, Smith College

Optimizing coagulation and disinfection byproduct formation potential minimization during treatment of high TOC surface water.
Abhisek Manikonda, Clarkson University

Mercury Fate in the Madison County Constructed Wetland
Gerardo Martinez, Syracuse University

Disinfection by-product speciation in swimming pools: Effect of temperature and sunlight
Christopher Melillo, Manhattan College

Evaluation of Potentially Bioavailable Organic Carbon in Soil Samples after Liming near the Honnadaga Lake in New York State
Yaskira Mota, Syracuse University

Degradation of Chlorobenzene in Simulated Groundwater Using Palladium-Catalytic Electro-Fenton Reaction
Roya Nazari, Northeastern University

Synthesis of Modified Polysulphone Membranes using Clay Nanoparticles
Raphael Rodrigues, Harvard University
Recovery of Iron Oxide Pigments from Acid Mine Drainage  
Michael Ryan, Lafayette University

The influence of freshwater mussels on near-bed flow conditions  
Brandon Sansom, University at Buffalo

Groundwater Contribution of Phosphorus from Near-lake Septic Systems to  
Eutrophication of a Lake  
Frank L. Schellenger, Northeastern University

Evaluation of Fluorescence Spectroscopy to Identify Organic Matter Source in Effluent-Receiving Fluvial Systems  
Sharon Scott, University of Connecticut

The Effect of Dissolved Organic Carbon Fractions on Metal Mobility in In-situ Chemical Oxidation Applications  
Chelsey Serrano, University of New Hampshire

Self-Assembly of Ultra-thin Reduced Graphene Oxide Membranes at the Air-Water Interface  
Gregory Silverberg, Harvard

Using High-Resolution Remote Sensing Data and ArcGIS to Estimate Fluvial-Geomorphometric Parameters  
Noah Slovin, University of Massachusetts Amherst

Supporting Global Citizen Science with a Mixed Media Informatics Framework  
Kevin Smith, Tufts University

Water Treatment Residual (WTR)-Coated Mulches for Mitigation of Toxic Metals and Nutrient in Urban Stormwater  
Hanieh Soleimanifar, Montclair State University

Interactions of Ferrate(VI) with Natural Organic Matters (NOMs)  
Yali Song, Montclair State University

Incorporating Ecological Principles in Water Management Decision Making: Example Application to Flood Management in Iowa  
Caitlin Spence, University of Massachusetts Amherst

Investigation of DNA Extraction Protocols for Granular Biofilms Containing Microalgae and Bacteria  
Kristie Stauch-White, University of Massachusetts Amherst

Photoelectrochemical Chemical Oxygen Demand for Drinking Water Analysis  
Amina K. Stoddart, Dalhousie University
Characterization of UV-quenching dissolved organic matter in landfill leachate
   Alicja Trzopek, Montclair State University

Assessing the impacts of a biofiltration facility and associated groundwater flow on surface water quality
   Jacquelyn Tupper, Worcester Polytechnic Institute

Improvement on a correction factor to approximate methyl mercury content using specific ultraviolet absorbance
   Lysa Uwizeyimana, Syracuse University

Evaluating the Performance of Biological Phosphorus Removal and the Capacity of Phosphorus recovery via Different Sludge Retention Times
   Yuqi Wang, Northeastern University

Climate Change and Water Quality Impacts and Adaptation Strategies for NYS & NYC Utilities
   Patrick Wittbold, University of Massachusetts, Amherst

Biofilm Formation on Carbon Nanotube/Polycaprolactone Nanocomposite Coated Surfaces
   Zehui Xia, University of Massachusetts, Amherst

Carbon nanomaterials for electrochemical anti-microbial fouling coating: performance evaluation and mechanism study
   Qiaoying Zhang, Harvard University