

ABET FACULTY VITAE (2 Page)

Name: James Amburgey

Education:

- Ph.D. Georgia Institute of Technology, Civil and Environmental Engineering, 2002
- M.S. Georgia Institute of Technology, Civil and Environmental Engineering, 2000
- B.S.C.E. University of North Carolina at Charlotte, Civil Engineering, 1998

Academic Experience:

- UNC Charlotte, Associate Professor, Department of Civil and Environmental Engineering, May 2012 – Current, Full-Time
- UNC Charlotte, Assistant Professor, August 2006 – May 2012, Full-Time
- UNC Charlotte, Assistant Professor, August 2005 – August 2006, Full-Time
- Centers for Disease Control and Prevention, Emerging Infectious Diseases Postdoctoral Research Fellow, August 2003 – August 2005
- Georgia Institute of Technology, Graduate Research Assistant, September 1998 – May 2002
- UNC Charlotte, Undergraduate Research Assistant, September 1996 – August 1998

Non-Academic Experience:

- Water Treatment Research, Inc., President and Director of Research, January 2002 – Present, Part-Time

Certifications or Professional Registrations:

- E.I., State of Georgia

Current Membership in Professional Organizations:

- American Water Works Association (AWWA)
- Member: Water Quality & Technology: Coagulation & Filtration National Committee
- Member: Particulate Contaminant Research National Committee
- Association of Environmental Engineering and Science Professors (AEESP)
- International Water Association (IWA)

Honors and Awards:

None

Service Activities (Within and Outside of the Institution):

None

Select Publications and Presentations (Last Five Years):

- Amburgey, J.E., Walsh, K.J., Fielding, R.R., and M.J. Arrowood. (2012). Removal of *Cryptosporidium* and Polystyrene Microspheres from Swimming Pool Water with Sand, Cartridge, and Precoat Filters. *Journal of Water and Health*. 10(1): 31-42.
- Kimble, G.H., Amburgey, J.E., and V.R. Hill. (2012). A Comparison of Hollow-Fiber Ultrafiltration to USEPA Method 1623 for 10-liter Treated Water and Surface Water Samples. *ASCE Journal of Environmental Engineering*. 138(8): 899-901.

- Kimble, G.H., Amburgey, J.E., and H.H. Hilger. (2013). Improvements in *Cryptosporidium* Recovery and Variability Through Modifications to USEPA Method 1623. *Water and Environment Journal*. 27(2):269-274.
- Kimble, G.H., Hill, V.R., and J.E. Amburgey. (2015). Evaluation of alternative DNA extraction processes and real-time PCR for detecting *Cryptosporidium parvum* in drinking water. *Water Science and Technology: Water Supply*. (In press, Available online).
- Alansari, A., Selbes, M., Karanfil, T., and J.E. Amburgey. (2015). Optimization of Coagulation Pretreatment Conditions in a Ceramic Membrane System. *Journal American Water Works Association* 107(12): (In press, Available online).
- Lu, P. and J.E. Amburgey. (2015). A pilot-scale study of *Cryptosporidium*-sized microsphere removals from swimming pools via sand filtration. *Journal of Water and Health*. (Accepted).
- Amburgey, J.E., Fielding, R.R., and M.J. Arrowood. (2011). Research Update: Enhancing Filtration to Maximize *Cryptosporidium* Removal. *Proceedings 2011 World Aquatic Health Conference*, Seattle, WA.
- Amburgey, J.E., Fielding, R.R., and M.J. Arrowood. (2012). Evaluating Circulation Systems and the Influence on Water Quality. *Proceedings 2012 World Aquatic Health Conference*, Norfolk, VA.
- Alansari, A.Y., Amburgey, J.E., Selbes, M. and T. Karanfil. (2012). Coagulation-Ceramic Membrane Filtration Process For U.S. Surface Water Treatment: The Effects Of Coagulation On Membrane Fouling. *CD-ROM Proceedings 2012 AWWA WQTC*, Toronto, ON.
- Amburgey, J.E., and B.M. Brouckaert. (2012). The Use of Expanded Clay Media to Extend Run Times in Existing Dual-Media Filters. *CD-ROM Proceedings 2012 AWWA WQTC*, Toronto, ON.
- Amburgey, J.E., Bowen, J.D., Fielding, R.R., Lu, P. and M. J. Arrowood. (2013). *Cryptosporidium* reduction and outbreak risk: Intelligently balancing filtration, disinfection, and recirculation subsystem efficiencies. *Proceedings Fifth International Conference Swimming Pool and Spa*. Rome, Italy.
- Amburgey, J.E. (2013). International Conference on Swimming Pool & Spa, Rome 2013: Key Advances in Science & Regulations. *Proceedings 2013 World Aquatic Health Conference*, Indianapolis, IN.
- Alansari, A.Y., Amburgey, J.E., Karanfil, T., and M. Selbes. (2013). The Effect Of Coagulation Pretreatment On The Performance Of Ceramic Membranes For U.S. Surface Water Treatment. *CD-ROM Proceedings 2013 AWWA WQTC*, Long Beach, CA.
- Selbes, M., Peeler, C., Karanfil, T., and J.E. Amburgey. (2014). Removal of DBP Precursors Through Biologically Active Filters. Poster. *Proceedings 2014 South Carolina Environmental Conference*, Myrtle Beach, SC.
- Hill, V.R., Lu, P., Amburgey, J.E., Murphy, J., Schneeberger, C., and M. J. Arrowood. (2015). *Cryptosporidium* Oocyst and *Cryptosporidium*-sized Microsphere Removals from Swimming Pools Through Filtration. *Proceedings Sixth International Conference Swimming Pool and Spa*. Amsterdam, Netherlands.
- Amburgey, J.E., A. Alansari, and N. Madding. (2015). New Research on the Gage-Bidwell Law of Dilution. *Proceedings 2015 World Aquatic Health Conference*, Scottsdale, AZ.

Resent Professional Development Activities: None