

ABET FACULTY VITAE (2 Page)

Name: James D. Bowen

Education:

- Ph.D., Civil Engineering, Massachusetts Institute of Technology, 1990
- M.S., Civil Engineering, Vanderbilt University, 1983
- A.B., Botany, Duke University, 1979

Academic Experience:

- UNC Charlotte, Associate Professor, Director of Student Learning and Assessment, 2003 – Current, Full-Time
- UNC Charlotte, Assistant Professor, 2000 – 2003, Full-Time
- North Carolina State University, Adjunct Professor, Department Civil, Construction, and Environmental Engineering, 2001- 2005, Part-Time
- Duke University, Lecturer, Nicholas School of the Environment, 1999-2000, Part-Time
- UNC Charlotte, Assistant Professor, 1996-2000, Full-Time.
- Massachusetts Institute of Technology, Lecturer, Department of Civil Engineering, 1994-1995, Part-Time
- Tufts University, Instructor, Center for Environmental Management, 1992-1994, Part - Time.

Non-Academic Experience:

- ENSR Consulting and Engineering, Acton MA, Senior Hydrologist, Project Manager/Surface Water Quality Section Manager, 1990-1996, Full-Time.
- Massachusetts Institute of Technology, Cambridge MA, Graduate Research Assistant, Department of Civil Engineering, 1984-1989, Full-Time.
- Vanderbilt University, Nashville TN, Research Instructor and Research Assistant, Department of Civil and Environmental Engineering, 1981-1984, Full-Time.
- Engelhard Industries, Newark NJ, Quality Control Technician, 1980-1981, Full-Time.

Certifications or Professional Registrations:

- EIT, 1983

Current Membership in Professional Organizations:

- American Geophysical Union
- American Society of Civil Engineers
- Coastal and Estuarine Research Federation
- American Society of Limnology and Oceanography
- American Society for Engineering Education
- Sigma Xi, Scientific Research Society
- Tau Beta Pi, Engineering Honor Society
- Chi Epsilon, Civil Engineering Honor Society

Honors and Awards:

- UNC Charlotte, William States Lee College of Engineering Teaching Excellence Award, 2007, Undergraduate Education.

- UNC Charlotte, William States Lee College of Engineering Teaching Excellence Award, 2004, Graduate Education.
- National Science Foundation, New Century Scholar, 1998.
- M.I.T. Hugh Hampton Young Fellowship, 1986-1989.
- Tau Beta Pi Engineering Honor Society, 1983.
- Vanderbilt Summer Research Fellowship, 1983.
- Magna Cum Laude, Duke University, 1979.

Service Activities (Within and Outside of the Institution):

- Chair, Civil and Environmental Engineering Department Chair Search Committee, 2013-2014.
- College of Engineering Faculty Organization (CEFO) President-Elect and President, 2008-2010.
- College of Engineering Faculty Organization (CEFO) Secretary, 2005-2007.
- Chair, College Review Committee on Promotion and Tenure 2010-2011, 2012-2013.
- Chair, Department Review Committee for Promotion and Tenure, 2015-2016.
- Chair, College of Engineering Reassignment of Duties Committee, 2011-2013.
- Manuscript Reviewer: Environmental Management (1999, 2001, 2008, 2009, 2013, 2014), Water Research (2004, 2008, 2012, 2014), Journal of Environmental Management (2013, 2014, 2015), ASCE Journal of Environmental Engineering (2006, 2007), Estuarine and Coastal Modeling Conference Proceedings (1997, 1999, 2001, 2003, 2005, 2007, 2009, 2011, 2013), Water Resources Research (2006), Water International (2003, Urban Ecosystems (1998), Lake and Reservoirs: Research and Management (1998, 2010, 2013), Journal of Urban Hydrology (1999), Marine Ecology Progress Series (1997), ASEE Conference Proceedings (2002, 2003, 2010), Water Science and Technology (2012).
- Proposal Reviewer, National Science Foundation (2005, 2007, 2008, 2011), North Carolina

Select Publications and Presentations (Last Five Years):

1. Kim, Dongwook, Bowen, James D., and Ozelkan, Ertunga C. 2015. Optimization of wastewater treatment plant operation for greenhouse gas mitigation. *Journal of Environmental Management*, 163: 39-48.
2. Kim, D., Bowen, J.D. and Kinnear, D., 2015. Comprehensive Numerical Modeling of Greenhouse Gas Emissions from Water Resource Recovery Facilities. *Water Environment Research*, 87(11), pp.1955-1969.
3. Bowen, J.D., Perry, D.N. and Bell, C.D. 2014. Hydrologic and Water Quality Model Development Using Simulink. *Journal of Marine Science and Engineering* 2(4), 616-632.
4. Froelich, Brett, James Bowen, Raul Gonzalez, and Rachel Noble. 2013. Mechanistic and Statistical Models of Total Vibrio Abundance in the Neuse River Estuary, *Water Research* 47 (15), 5783-5793.

Recent Professional Development Activities:

- Instructor at a UNC Charlotte sponsored faculty development workshop to develop sustainability related coursework, May 2015.
- Attended AASHE sponsored conference on training faculty to develop new sustainability related course content, Emory University, January 2015.
- Estuarine and Coastal Modeling Conference, San Diego CA, October 2013.