

ABET FACULTY VITAE (2 Page)

Name: Brett Tempest

Education:

- Ph.D., Infrastructure and Environmental Systems, UNC Charlotte, 2010
- M.S.C.E., Civil Engineering, UNC Charlotte, 2007
- B.S.C.E., Civil Engineering, UNC Charlotte, 2004
- B.A., International Studies, UNC Chapel Hill, 2001

Academic Experience:

- UNC Charlotte, Associate Professor, May 2016 – Present, Full-Time
- UNC Charlotte, Assistant Professor, January 2010 – May 2016, Full-Time

Non-Academic Experience:

- Habitat for Humanity International Tsunami Reconstruction Initiative, Pondicherry, India, Construction Manager, 2005 – 2006, Full-Time
- AmeriCorp NCC, Team Leader, 2004 – 2005
- UNC Charlotte, Research Assistant, 2002 – 2004
- AmeriCorp NCC, Corps Member, 2000 – 2001
- UNC Chapel Hill, Research Assistant, 1998 – 2000

Certifications or Professional Registrations:

- E.I., State of North Carolina

Current Membership in Professional Organizations:

- American Society of Civil Engineers
- American Concrete Institute
- Precast/Prestressed Concrete Institute (PCI)
- Engineers Without Borders

Honors and Awards:

- UNC Charlotte Outstanding Young Alumnus Award, 2016
- William States Lee College of Engineering Outstanding Graduate Teaching Assistant, 2008
- William States Lee College of Engineering Outstanding Teaching Assistant, 2007
- Nish Jamgotch Student Humanitarian Award, 2007

Service Activities (Within and Outside of the Institution):

- Member: Civil Engineering Writing Committee (2010-Present)
- Member: Civil Engineering Sustainability Committee (2014-Present)
- Member: Civil Engineering Lab Committee (2010-2014)
- Member: College of Engineering Reassignment of Duties Committee (2014-Present)

Select Publications and Presentations (Last Five Years):

1. Snell, C., Tempest, B., Gentry, T. "Comparison of the Thermal Characteristics of Portland Cement and Geopolymer Cement Concrete Mixes. Accepted for publication in ASCE Journal of Architectural Engineering.
2. Tempest, B., Gergely, J., Skipper, A. (2016) "Reinforced Geopolymer Concrete in Flexure: a Closer Look at Stress-Strain Performance and Equivalent Stress Block." Accepted by the PCI Journal.
3. Sanusi, O., Tempest, B., Ogunro, V., and Gergely, J. (2016). "Leaching Characteristics of Geopolymer Cement Concrete Containing Recycled Concrete Aggregates." J. Hazard. Toxic Radioact. Waste, 10.1061/(ASCE)HZ.2153-5515.0000312 , 04016002.
4. Tempest, B., Gergely, J., Weggel, D. "Engineering Characterization of Strength and Elastic Properties of Geopolymer Cement Concrete Materials" Journal of Green Building V10 N4.
5. Tempest, B., Snell, C., Gentry, T., Trejo, M., Isherwood, K. "Manufacture of Full Scale Precast Geopolymer Cement Concrete Components: A Case Study to Highlight Opportunities and Challenges." PCI Journal. V60 N6: 39-50.
6. Farinde, Abiola A., Brett Tempest, and Lisa Merriweather. "Service Learning: A Bridge to Engineering for Underrepresented Minorities." International Journal for Service Learning in Engineering, Humanitarian Engineering and Social Entrepreneurship (2014): 475-491.
7. Whelan, M., Tempest, B., and Scott, D. (2014). "Influence of Fire Damage on the Modal Parameters of a Prestressed Concrete Double-Tee Joist Roof," Structural Control and Health Monitoring
8. Whelan, M., Tempest, B., and Scott, D. (2013). "Post Fire Nondestructive Evaluation of a Prestressed Concrete Double-Tee Joist Roof." J. Perform. Constr. Facil
9. Tempest, Brett Q., and Miguel A. Pando. "Characterization and Demonstration of Reuse Applications of Sewage Sludge Ash." International journal of GEOMATE: Geotechnique, Construction Materials and Environment 4.1 (2013): 552-559.

Recent Professional Development Activities:

- Assistant Mentor for ASCE ExCEED 2015 at US Military Academy, July 17-24, 2015
- Attended AASHE's Sustainability Across the Curriculum Leadership Workshop at Emory University, January 8-9, 2015
- Attended/Presented at PCI Professors' Workshop at UNCC, January 4-6, 2015
- Attended ASCE ExCEED 2014 at Florida Gulf Coast University, June 22-27, 2014
- Attended Communications Across the Curriculum Workshop, UNCC,
- Attended PCA Professors Workshop- Engineering and Economics of Concrete Buildings August 2-4, 2010
- Attended PCA Professors Workshop- Engineering and Economics of Concrete Buildings August 2-4, 2010
- Attended PCA Professors Workshop- Design and Construction of Concrete Bridges by the AASHTO LRFD Specifications, August 5-6, 2010