

## ABET FACULTY VITAE (2 Page)

**Name:** Jy Wu

### **Education:**

- Ph.D., Chemical and Environmental Engineering, Rutgers-State University, 1980
- M.E., Environmental Engineering, Asian Institute of Technology, 1974
- B.S., Chemical Engineering, National Taiwan University, 1971

### **Academic Experience:**

- UNC Charlotte, Director of Infrastructure and Environmental Systems (INES), 2012 – Present, Full-Time
- UNC Charlotte, Professor, August 1989 – Present, Full-Time
- UNC Charlotte, Associate Professor, 1984 – 1989, Full-Time
- UNC Charlotte, Assistant Professor, 1980 – 1984, Full-Time
- UNC Charlotte, Graduate Director for Civil Engineering, 1989 – 2012, Full-Time
- Rutgers University, Department of Chemical Engineering, Project Manager, 1979 – 1980

### **Non-Academic Experience:**

- Consulting Engineer, 1990 – Present
- Union Industrial Research Institute, Taiwan, Research Engineer, 1971 – 1972, Full-Time
- Taipei Environmental Sanitation Department, Senior Advisor and Section Chief, 1973 – 1974

### **Certifications or Professional Registrations:**

- Professional Engineer (PE) - NC
- Professional Hydrologist (PH)

### **Current Membership in Professional Organizations:**

- Overseas Chinese Environmental Engineer and Scientist Association (OCEESA), Vice President, 2016
- Western Economic Association International, Member, 2013 – Present
- American Society of Civil Engineer – Inactive 2015

### **Honors and Awards:**

- Received numerous major grants from US EPA, AWWARF, NSF, NC Division of Water Quality and NC Department of Transportation (>\$1.5 M).
- Invited by United Nations to speak on Water (Spain 2014) and Drought (NY 2015) Management Workshops.
- Invited workshop instructor for flood management in Kaohsiung, Taiwan, 2013
- Recognized by Nissan American for research on renewables and energy efficiency, at the Ceremony of electric-vehicle charging stations donation to UNC-Charlotte, 2013.
- Distinguished Faculty, Chinese University of Mining and Technology, China, 2008 – Present
- AIT Distinguished Alumni, 2004.
- Chair in New Technology, Fulbright Scholar, 1997-1998.

**Service Activities (Within and Outside of the Institution):**

- INES Director (7 doctoral students graduated in 2015), 2012 - Present
- Editor, Journal of Water Management and Modeling, 2015 – Present
- Mitigation Fee Task Force, Advisory Committee, Mecklenburg County, Charlotte, NC 2014 – 2015
- Chair of Duke Professorship Award Committee, 2015-2016
- Member of Diversity Award Committee, 2014

**Select Publications and Presentations (Last Five Years):**

1. Wu, J.S. H.K. Tseng, J.C. Ferrell and X. Liu. 2016. “Economic Modeling of Green Energy Production from Waste Management Facilities: The Catawba EcoComplex Case Study.” Under Review, Energy Economics.
2. Malinowski, P., A. Stillwell, J.S. Wu and P. Schwartz. 2015. “Energy-Water Nexus: Potential Energy Savings and Implications for Sustainable Water Management in Urban Areas from Rainwater Harvesting and Gray-Water Reuse.” Journal of Water Resources Planning and Management. Vol. 141, No. 12. 10.1061/(ASCE)WR.1943-5452.0000528.
3. Wu, J.S. and C.J. Allan. 2014. “Stormwater Characterization from Roadways with Open Graded Friction Course Surfaces.” NCDOT. 149 pp.
4. Tseng, H.K., J.S. Wu and X. Liu. (2013). “Affordability of Electric Vehicles for a Sustainable Transport system: An Economic and Environmental Analysis. Energy Policy. 61:441-447 (cited by 16).
5. Meng, Z., J.S. Wu and C.J. Allan. 2013. “Hydrologic Connectivity for Highway Runoff Analysis at Watershed Scale.” In: Pragmatic Modeling of Urban Water Systems. Monograph 21. Edited by W. James et al., CHI Press, pp. 23-31.
6. Kaanagbara, L., Inyang, H.I., J.S. Wu and H. Hilger. 2010. Aromatic and Aliphatic Hydrocarbon Balance in Electric Transformer Oils. Fuel. 89(10):3114-3118.
7. Wu, J.S. and C.J. Allan. 2010. “Evaluation of Nutrient Loading Rates and Effectiveness of Roadside Vegetative Connectivity for Managing Runoff from Secondary Roadways. NCDOT. 98pp.
8. Wu, J.S. and C.J. Allan. 2010. “Unified Methodology for Site Characterization and Sampling of Highway Runoff.” Front. Environ. Sci. Engin. China. 4(1):47-58.
9. Wu, J.S., C.J. Allan, W. Saunders and J.B. Evett. 1998. “Characterization and Pollutant Loading Estimation for Highway Runoff.” Journal of Environmental Engineering, ASCE, 124(7):584-592. <Most Cited Paper: cited by 271 as of 2014 and by 286 as of 2015>

**Recent Professional Development Activities:**

- Lectured on “Authorship and Peer review” for the graduate class of “Responsible Conduct of Research” at UNC-Charlotte, 2015, 2016
- Developed and taught three new graduate/doctoral courses on “Environmental and Ecological Economics – 2013”, “Energy and the Environment - 2015”, and “Renewable Energy Systems – 2016”.
- Co-organizer, student paper contest, the 17<sup>th</sup> Mainland Taiwan Environmental Protection Conference, Kunming, China, 2015.
- NSF/DOE Workshop on Additive Manufacturing (environmental impact), 2014.