CAEE Department Researchers to Monitor Javits Convention Center Green Roof

Digital Building Concentration

Dr. Joseph Martin will be leaving the Department as a tenure-track Assistant Professor. He is currently an adjunct professor and post-doctoral researcher in the CAEE Department. He graduated with a B.S.E in Chemical and Biomedical Engineering and a B.A. in Environmental Studies from the University of Pennsylvania. He received his M.S. and Ph.D. in Civil and Environmental Engineering from the University of California, Berkeley. His research interests and expertise are in studying the environmental microbiology of natural and engineered systems, using a suite of high-throughput molecular biology, microbiology, analytical chemistry, and computational techniques, to produce a wealth of valuable information that can be used to understand and engineer microbial systems involved in biodegradation, bioenergy production, or biogeochemical processes.

Robert Swan, Jr. is a former graduate of Drexel University with his BSE in 1986 and MSCE in 1987. Mr. Swan joined the faculty at Drexel as an Associate Teaching Professor in the Department of Civil Engineering Technology at the University of North Carolina at Charlotte (UNC Charlotte) where he was a Faculty Associate for the Civil Engineering Technology and Construction Management program within the Department of Engineering Technology and Construction Management (ETCM). He holds extensive knowledge in soil mechanics, geology, hydrology, and construction materials. Throughout his career he has focused on laboratory and field performance of geotechnical systems and has been involved in establishing the field performance of geotechnical systems and geosynthetics. His work has increased dramatically over the last 10 years and the addition of this new concentration will provide students with comprehensive instruction on how to successfully use Building Information Modeling (BIM) programs such as Autodesk’s Revit. Students will also be prepared for use of these tools as they pertain to applications throughout a building’s life cycle.

New Faculty

Dr. Christopher Sales will be leaving the Department as a tenure-track Assistant Professor. He is currently an adjunct professor and post-doctoral researcher in the CAEE Department. He graduated with a B.S.E in Chemical and Biomedical Engineering and a B.A. in Environmental Studies from the University of Pennsylvania. He received his M.S. and Ph.D. in Civil and Environmental Engineering from the University of California, Berkeley. His research interests and expertise are in studying the environmental microbiology of natural and engineered systems, using a suite of high-throughput molecular biology, microbiology, analytical chemistry, and computational techniques, to produce a wealth of valuable information that can be used to understand and engineer microbial systems involved in biodegradation, bioenergy production, or biogeochemical processes.

Robert Swan, Jr. is a former graduate of Drexel University with his BSE in 1986 and MSCE in 1987. Mr. Swan joined the faculty at Drexel as an Associate Teaching Professor in the Department of Civil Engineering Technology and Construction Management program within the Department of Engineering Technology and Construction Management (ETCM). He holds extensive knowledge in soil mechanics, geology, hydrology, and construction materials. Throughout his career he has focused on laboratory and field performance of geotechnical systems and has been involved in establishing the field performance of geotechnical systems and geosynthetics. His work has increased dramatically over the last 10 years and the addition of this new concentration will provide students with comprehensive instruction on how to successfully use Building Information Modeling (BIM) programs such as Autodesk’s Revit. Students will also be prepared for use of these tools as they pertain to applications throughout a building’s life cycle.

New Faculty

Dr. Christopher Sales will be leaving the Department as a tenure-track Assistant Professor. He is currently an adjunct professor and post-doctoral researcher in the CAEE Department. He graduated with a B.S.E in Chemical and Biomedical Engineering and a B.A. in Environmental Studies from the University of Pennsylvania. He received his M.S. and Ph.D. in Civil and Environmental Engineering from the University of California, Berkeley. His research interests and expertise are in studying the environmental microbiology of natural and engineered systems, using a suite of high-throughput molecular biology, microbiology, analytical chemistry, and computational techniques, to produce a wealth of valuable information that can be used to understand and engineer microbial systems involved in biodegradation, bioenergy production, or biogeochemical processes.

Robert Swan, Jr. is a former graduate of Drexel University with his BSE in 1986 and MSCE in 1987. Mr. Swan joined the faculty at Drexel as an Associate Teaching Professor in the Department of Civil Engineering Technology and Construction Management program within the Department of Engineering Technology and Construction Management (ETCM). He holds extensive knowledge in soil mechanics, geology, hydrology, and construction materials. Throughout his career he has focused on laboratory and field performance of geotechnical systems and has been involved in establishing the field performance of geotechnical systems and geosynthetics. His work has increased dramatically over the last 10 years and the addition of this new concentration will provide students with comprehensive instruction on how to successfully use Building Information Modeling (BIM) programs such as Autodesk’s Revit. Students will also be prepared for use of these tools as they pertain to applications throughout a building’s life cycle.

Congratulations to Newly Tenured Faculty

Congratulations to Dr. Mira Olson and Dr. Franco Montalto who both recently received tenure. The Department looks forward to their continued contributions as both educators and researchers. Their hard work both complements and enhances the mission of the CAEE Department and the College of Engineering as a whole.

Faculty Farewell

Dr. Paul Block will be leaving the Department to join the faculty of the Civil and Environmental Engineering Department at the University of Wisconsin in Madison. Dr. Block will be transitioning into his new job this summer. The Department thanks him for his efforts and wishes him the best of luck.

Student News

CAEE doctoral student Ramona Stammernann won a 2013 Drexel Research Day award in her research category: Computation and Modeling (non-bio) for her research titled: “High Resolution Numerical Models of Tidal Marshes in the Delaware Bay.” This research focused on sediment transport of two marshes in the Backshank River Reserve and the Bombay Hook National Wildlife Refuge in Delaware. This includes the influence of vegetation, sediment availability and extreme events on flow and sedimentation patterns. Dr. Montalto and a team of his researchers from his CAEE Department will introduce seven courses that students will be required to take in their junior and senior years. These courses are geared towards providing students with the specialized skills appropriate for career development. The Digital Building concentration will be formally introduced into the curriculum beginning in the Fall term of the 2014-15 academic year.

Students will also be prepared for use of these tools as they pertain to applications throughout a building’s life cycle.

Drexel University’s Concrete Canoe and Steel Bridge teams competed at the 2013 ASC Mid-Atlantic Regionals on April 12-13 in Reading, PA. During the competition, the Concrete Canoe Team placed second overall in the competition and won the design award for the best team paper. The Concrete Canoe Team placed second overall in the competition and won the design award for the best team paper. The Steel Bridge team placed sixth in the overall competition. The team had a strong showing in the Efficiency and Stiffness categories, placing first in each while placing third in the Lightness and Display categories. The team was led by CAEE senior Sonya Santosova and advised by last year’s team captain and recent Drexel alumna, Michael Whelan.