



# Design of the New Campus Instructional Facility at the University of Illinois at Urbana-Champaign



**James J. Pawlikowski**

**SE, LEED® AP**

Associate Director, Sr. Structural Engineer

Skidmore, Owings & Merrill LLP

### **Abstract:**

The Campus Instructional Facility is a new center for flexible learning designed to meet the changing needs of students and faculty within the College of Engineering. Located adjacent to the main engineering quadrangle at Springfield Avenue and West Wright Street, the building will serve as a hub for contemporary teaching and learning, with a focus on enhancing collaboration and introducing new technologies for hands-on learning. Celebrating the university's mission to cultivate research and discovery, the building includes flexible classrooms and reconfigurable spaces designed to evolve as needs change on campus.

The building's structure and architecture are carefully integrated, with exposed structural steel elements supporting the building's architectural massing throughout the interior and exterior. The architectural and structural design of the building takes advantage of its use as a teaching forum, and utilizes the building systems themselves as teaching opportunities. All engineering systems are exposed – structure and building services – to create the building's aesthetic expression and also to provide this teaching opportunity. Additionally, the designers considered the university's requirement for a brick façade as an opportunity to research and provide the industry's newest design and detailing methods and technologies for masonry construction.

This presentation will focus on the structural design of the new facility. The current design will be explored, including the alternate systems considered during its initial design phase. Additionally, the significant research performed related to the brick facades will be discussed.

### **Bio:**

James J. Pawlikowski is an Associate Director in the Structural and Civil Engineering group at Skidmore, Owings & Merrill, LLP. In his career at SOM, James has had lead roles on many significant projects throughout the world, including Burj Khalifa in Dubai, the new NATO headquarters in Brussels, the OKO Tower in Moscow, Tower Palace III in Seoul, and the King Abdullah Financial District in Riyadh.

James holds an architectural masters degree (structures option) from the University of Illinois at Urbana-Champaign. He is a licensed structural engineer as well as a LEED Accredited Professional. James is currently a member of the American Society of Civil Engineers (ASCE), the American Concrete Institute (ACI), the Chicago Committee on High Rise Buildings (CCHRB), and serves on the Board of Directors for the Structural Engineers Association of Illinois (SEAOI). He is also a frequent guest lecturer for the University of Illinois structural engineering and architecture programs.

Monday, October 7<sup>th</sup>, 2019 4:00 – 5:00 p.m.

1310 Yeh Student Center