



*Additive Manufacturing of Structures:
A Practicing Engineer's Perspective*

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Abstract: Additive manufacturing is an enabling technology that is already revolutionizing industries, from aerospace with 3d printed aircraft components to medical with custom surgical implants. Benefits include step changes in time to market of consumer products and infinite customization. What will be the impact of this technological development on the construction industry where geometries are driven by such practicalities as the size of an 8'x4' sheet of plywood? This presentation will consider a broad range of likely impacts on the construction industry, including construction techniques, material usage and procurement, design techniques and opportunities for structural optimization. What are some of the opportunities that will be afforded to the next generation of designers resulting from these changes to the status quo?

Bio: Aaron Mazeika is a Structural Engineering Associate Director in the Chicago office of Skidmore, Owings & Merrill, LLP. After completing his university studies at the University of Cambridge, Aaron spent a period of time living and teaching in China, beginning an association with the country that has continued throughout his career at SOM. Aaron has led the Structural Engineering team in the design of over 30 high-rise towers in China. Notable projects include the New Poly Plaza in Beijing, which features the world's largest cable-net supported glass façade, the 413m tall twisting Al Hamra Tower in Kuwait City, and the 358m tall Greenland Group Suzhou Center currently under construction in Wujiang, China. Current projects include the 600m tall Greenland Nanjing Pukou Supertall, and the 501m tall Greenland Xixian Silk Road International Center.

Monday, November 5th, 4:00-5:00pm

1310 Yeh Student Center