NGSEA SEMINAR SERIES

Tuesday, Mar. 20, 12:00 PM- 1:00 PM Shillman 135

3D Metal Printing and Mass Design Automation in Structural Design

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ABSTRACT

We are at an exciting time in the design and construction profession. With computational design we can develop multiple solutions for 3D printed structural items efficiently and batch-run analyses to produce structures of wonder and delight. In fact, with this increased automation, we are providing more and better technical information for projects than ever before. However, with that, we require a different skill set from our engineers; one which the typical academic degree and subsequent PE exam does not currently provide. In this talk, Paul will provide a review of 3D printing in structural design, automation and its effect on our profession, and thoughts on where education and training for engineers should go from here.

Speaker Bio

Paul Kassabian is an Associate Principal and structural engineer at Simpson Gumpertz & Heger. He has designed and investigated a wide range of structural systems such as buildings, bridges, and sculptures. Paul was a graduate-level lecturer in the Civil Engineering Department at the Massachusetts Institute of Technology for nine years and currently teaches the Structures course to architecture students at Harvard's Graduate School of Design.

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