



## Past Exhibitions

### MAKE IT WORK: Engineering Possibilities

driving innovation. *MAKE IT WORK. Engineering Possibilities* looks at how engineers are envisioning and realizing the future of our built environment by transforming structures, improving environments, enhancing materials, re-inventing building technologies, and advancing forms. This exhibition highlights how inventive strategies for building are born from multidisciplinary research and integrated practice. Small engineering firms, large engineering firms, engineering schools, university labs, materials labs, artists, inventors, and architects are all part of the exchange of ideas – plotting trajectories of innovation.

Building on observations, analysis, and mathematical principles, engineers have developed the profession from empirical analysis into a field of expertise based on predictability and synthesis. With digital simulation and processing capabilities, engineers are utilizing comprehensive models to explore different options for optimizing structures and systems.

Twenty-first century engineers are tackling some of the most challenging concerns of our day. Exceeding LEED standards for sustainable building, engineers are conceiving of new ways for buildings to harvest and manage energy – floors that create electricity and facade systems that respond to the sun. Anticipating dwindling global resources, engineers are designing structures to new standards of efficiency and economy – stadiums that use 50% less steel and towers formed for optimal wind-loading.

These solutions are the product of creative and collaborative pursuit. This exhibition highlights how inventive strategies for building are born from multidisciplinary research and integrated practice. Small engineering firms, large engineering firms, engineering schools, university labs, materials labs, artists, inventors, and architects are all part of the exchange of ideas – plotting trajectories of innovation.

#### Exhibition Curatorial Team:

Rosamond Fletcher  
 Eli Gottlieb  
 Zak Kostura  
 Erik Madsen  
 Jonah Stern  
 Beth Stryker

#### Exhibition Designer:

Pure + Applied

#### Framing Space Installation by:

Phillip Anzalone and Stephanie Bayard, aa64

The Trusset Structural System, invented by Phillip Anzalone and Cory Clarke, is a project of the Graduate School of Architecture Planning and Preservation (GSAPP) at Columbia University in collaboration with the Fu Foundation School of Engineering and Applied Sciences.

#### Research Assistant:

Ginger Nolan, Columbia GSAPP Ph.D Candidate

#### Research Intern:

Alicia Arroyo

#### Special Thanks to our Advisory Committee:



Photo: Bjorn Wallander



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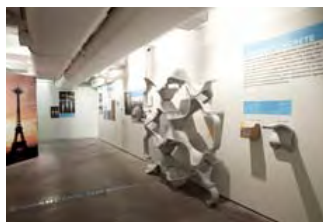


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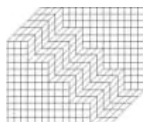
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