

Resilience Science & Biomimicry for Buildings & Cities

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ABSTRACT

This presentation introduces the science of resilience, the design framework of biomimicry and traditional ecological knowledge, and how they relate to the design, engineering, construction and planning of our buildings, cities, and communities. The talk discusses key elements of resilience science and biomimicry within the context of a practitioner's process to design and build for health, adaptive capacity and resilience based on the living system in which the project is immersed. Case studies (involving a home, site and neighborhood of both the presenter's work and others) are shared.

BIOGRAPHY

Educated first on a construction site, then in biology and law at NYU, Cornell, and UB, Josh is basically a recovering attorney, advising clients in how to profitably deliberate for our children's adaptive fitness. Recent projects include creating a practitioner's process based on ecosystem scale biomimicry, resilience science and traditional ecological knowledge. Josh co-founded Biomimicry Northern Forest, a regional biomimicry network devoted to enhancing the living world for the adaptive health of our children. He is also an alum of the Peruvian rainforest.