Designing for Rising Water A Competition Studio

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In this studio, students were challenged to address issues of rising water and community in a remote and unfamiliar place. Through research conducted in the field, in the studio and with the input of interdisciplinary experts, two teams created design proposals that challenged conventional thinking about resilience and what is possible in a coastal environment. The work was completed as part of an invited design competition called Designing Resilience in Asia, sponsored by the National University of Singapore. By applying their skills as designers, these US based students were able to respond to an unfamiliar culture and site in Manila, Philippines.

The site that was designated faces dual threats of dramatic sea level rise and accelerating subsidence. In addition, the community was relatively impoverished and perceived as powerless. Our students were fortunate to be able to spend 2 days at the site where they interacted with locals and observed the environment first hand. Back on campus, the students met regularly with an engineering professor and an ecologist to review their proposals and modify their designs based on science-driven input.

One of the teams designed a proposal called "Community Connection." This proposal activated strategies of soft infrastructure and a series of hyper-local community centers to empower the community. While visiting the site the students were really moved by the local residents and felt very strongly that their architectural design needed to address economic interests as well as spatial and environmental concerns. To that end, they also incorporated an economic driver within each of the new community centers as well as housing and education. Their proposal received an honorable mention in the final competition.

The proposal titled "From the Ground Up" took a more radical stance with their proposal to raise the land and reconnect the hardened river edge back to the larger water system. The proposal called for a combination of elevating land, as well as individual structures, with drainage waterways that would serve as economic and recreational assets for the community. Further, they also addressed the environmental hazards of a colossal waste disposal problem in the Philippines by employing cutting edge technology in land fill construction to build the elevated land masses. In their assessment, the land loss issue was more significant than any other threat and also held the greatest design potential.

The work presented here shows that design research in the studio context can push the boundaries of our thinking about how to address significant issues of environment and community.

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