SYLLABUS

Course: Disaster-Resilient Planning, Design & Reconstruction
Graduate Level/Fall Term 2011

Instructors:
Shun Kanda MIT Architecture/Keio Visiting Professor
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Consultants:
James Wescoat MIT Architecture/Disaster-Resilient Planning
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PREMISE

In the aftermath of the March 11, 2011 triple disaster suffered in Tohoku, Japan, the MIT-Japan Program at the Center for International Studies has established a mechanism to exchange faculty and students between MIT and universities in Tohoku and Japan with the collaborative goal of mobilizing the study and implementation of Disaster-Resilient Planning, Design & Reconstruction initiatives.

In late spring 2011, the MIT Japan 3/11 Initiative Team commenced work in Minamisanriku, Miyagi-ken with its Mayor Jin Sato, community leaders, residents, NGO affiliates, faculty & students of Miyagi and Keio Universities and consulting professionals to map out a plan of action for the near and long-term paths to recovery – the immense task ahead of rebuilding the widespread devastation of homes, communities and loss of livelihood to this region.

The course this Fall Term is established within the auspices of Keio University and MIT Center for International Studies & Japan Program’s Inter-University Program.

PROJECT

Design/Build innovation & implementation of a prototype transitional Community Center with/or the people of Minamisanriku, Miyagi-ken

SITE: alternate locations at Temporary Housing sites

PROGRAM: Building, Furnishings & Landscape Design for transitional occupancy and use including information, resource and multi-purpose center, facilities for relief agency, daycare, kindergarten, eldercare, volunteer rest-stations, a public bathhouse, vendor stalls, an outdoor terrace, garden and arbor – to serve the collective needs of the inhabitants, those amenities typically lacking within each of the housing units and the current temporary (expected 2–5 years duration) social environment.

DESIGN PARAMETERS: digitally-generated architectural component economy of means & rapid fabrication manual assembly & incremental construction wood & local building materials seismic resiliency

TEACHING METHOD & FORMAT: linked instruction via Tokyo/Sendai/Boston local community participation attendance at Keio U. Mita campus and/or on-site at Minamisanriku

OUTLINE SCHEDULE:

* see attached schedule for details
END-PRODUCT:  Partial/Substantial Completion of Building
Documentation, Public Presentation & Publication

Eligibility  graduate students in design including architecture, engineering, landscape,
Qualification  product & community design with CAD and advanced digital design skills are all
Enrollment  eligible to attend, English language-proficiency is a requirement

fabrication, assembly & building construction opportunities are open to
community volunteers, professionals and other participants

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Support  Studies, MIT Japan Program, and MIT Department of Architecture

Supporting References  URL: http://mit.edu.japan3-11
Appendix  Outline Schedule
Proposal: MIT Japan 3/11 Initiative