



Transonic wind tunnel, NASA Langley Research Center. Langley Station, Hampton, Virginia. 1961.

OCCUPYING STRUCTURE

The Vertical Factory

FALL 2021 OPTION STUDIO | WED. & FRI. 11:25AM-4:25PM

Frank Barkow, Regine Leibinger, Pablo Sequero, visiting critics

"Dams, roads, bridges, tunnels, storage buildings and various other useful structures comprise the bulk of the best visible things made in this century",

Donald Judd, review of Twentieth Century Engineering exhibition MoMA, 1964

This studio will focus on structural engineering as a primary tool for imagining an architectural project, both, in how it spatializes and how it can accommodate diverse programmatic uses. Structure and its physical, dynamic, and athletic, capabilities will be emphasized. The project will react to the particulars of site, hybrid programming, and expression. The success of the studio will depend on large-scale models which will demonstrate physically how forces will function, and the spaces made for these vertical factories. The subject for this research will be a vertical factory (as opposed to the historically sprawling horizontal ones) which is typically an urban response to high land costs and density. It is a typology that resists sprawl and is compact with a small footprint. As well, programmatic and spatial communication work vertically as does the flow of materials and products, generating more efficient synergies and between the different uses.

A building site at the historical Story Mill, in Bozeman Montana, for a Vertical Factory will save land (in the context of a park/wetlands/ and historical reclamation area), and provide a framework for the preservation of the historic flour mill, which was recently listed as one of the most endangered historic sites in Montana.

Visiting critics Frank Barkow and Regine Leibinger will be in Ithaca on a monthly basis, for mid-review and final review, as well as participating remotely on pin-up and desk crits periodically. Visiting Critic Pablo Sequero will be in Ithaca full time.

CORNELL AAP DEPARTMENT OF ARCHITECTURE