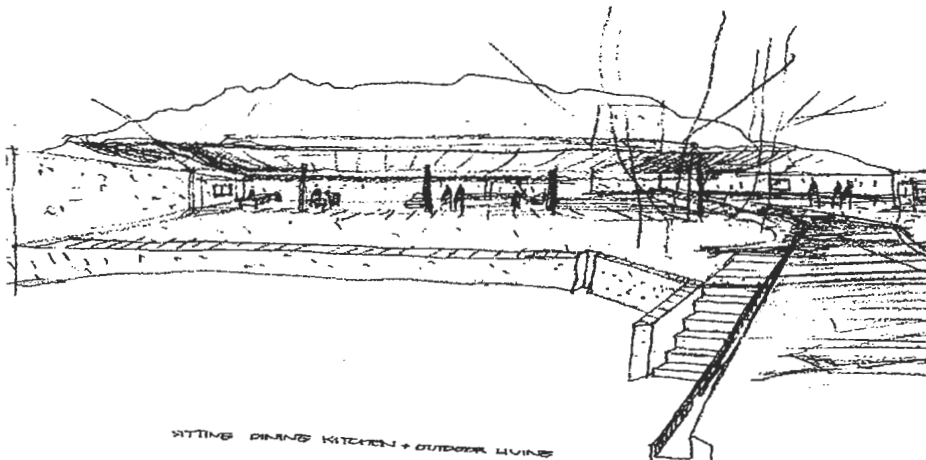


MATERIAL ESSENCE
studies in tectonic Layering
a botanical research center

Andrew Scott
MIT Level 2 studio Fall 2003

ASSIGNMENT 3: Schematic Outline Design

- Concept (construct): *an idea or thought; abstract notion*
- Idea (thought): *a thought, mental conception or image*
- Strategy (implementation): *the skill in managing or planning (a series) of operations (or concepts);*
- Diagram (process): *a sketch, plan, graph that explains something by outlining its parts.*



Having explored both the quality, characteristics and nature of the site – as well as some of the inherent architectural possibilities of glazing – the task is to move on and develop an design outline for the project.

The outline design should develop a *concept* that gathers your major *ideas* for the project for the botanical research center (refer to the program given out previously). Your *concepts* should be represented as a *strategy* for building on the site that incorporates the following 5 issues:

1. The relationship of the project to the landscape of the site (and the campus).
Identify your ideas about nature, landscape and building.
Consider where to site the project and what it ties into in respect of the infrastructure of the campus.
Work with the topographical conditions to develop ideas about the relationship of the building to the ground condition.
2. The orientation of the form to **climate** conditions; sun, wind, light, sound.
Consider how the form is responsive to these conditions and works with or against them.
3. The 3 dimensional **form** of the major spaces and volumes.
Consider the scale and the boundary or edge condition (open, closed etc)
4. The idea of **movement** in the project; linear, non- linear, directional etc.
How do your ideas about movement relate to the site?
5. The **material** concept for the project. Develop your ideas about what the material language might be and how they can be used. Use illustrations or study models to show your thoughts.

Your outline design should be vigorously developed through diagrams, study models and sketch sections. Be rigorous in how you design and retain your material to show your thought and design processes.

Requirements and Schedule:

et
Thursday ~~November~~ 30: a review of your work with guest critics

For this review and discussion your response to the issues listed above should be clear, coherent and well organized through developing the following media:

- 3 dimensional models that explore and show your ideas about the form of the building in the site. 1/16th scale. (At least one of these should also be capable of fitting into a studio site model)
- sectional sketch drawings that show the scale and relationship of the form to the landscape and orientation. Scale 1/8th or larger
- plan diagrams that illustrate emerging ideas for the organization of the project (including movement, entrance, program elements). Scale approximately 1/16th (although initially smaller)

All other dates: desk crits and studio site model making. Please sign up for desk crits for up coming studios