

Arch 48-205 Architecture Studio: 2nd Year

Spring 2008 – CMU - M/W/F 1:30-4:30 – Room MM319 – Instructor: Jim OToole

February 22, 2008, Project 4- intro

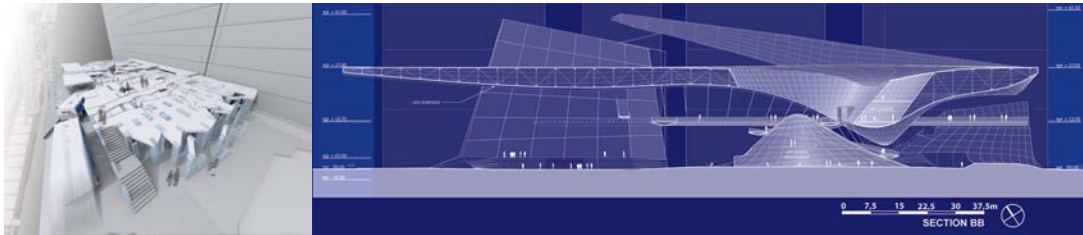
Project 4: Southside Research Center, Forensic Database (DNA), a sixth sensory

Architectural Insertion into an existing steel shed/steel truss and skin structure

What is a research center today?

How can researching DNA through our progressive technology invent a new research center for the Southside of Pittsburgh?

How will the research Center impact the community?



*The max square foot for the research center is 3,000 sf.; the existing shed is 98,500sf
(1-open ground floor plan)*

Our task is to invent a structural building system that will support the 3000sf research center program and insert this into / onto the large steel shed and site context. The program flow is "key" to compose your building section (insertion)

Program Requirements:

Storage spaces

Research materials, books, data, diaries, artifacts

Research space

Laboratory, reading room, 6th sensory room, or processing center

Public Interface space

Entry space that mediates between operations of the research center, steel shed, street, and site context. (Ex. coffee shop, dance hall, garage or café)

Support spaces (important)

Men's toilet, (1-ADA stall, 1-urinal)

Woman's toilets (1-reg, 1-ADA)

Staff office

Circulation space (ADA to all spaces, ex. 1" slope to 30'), (2-means of egress from all floors)

Mechanical equipment spaces - (think green, could be a key component to your concept)

Homework:

Friday February 22, 2008 – (due Mon. Feb. 25th)

1. Visit the site: explore the surrounding context; understand the scale of the research center juxtaposed to the steel shed.
2. 18"x24" photomontage / collage of your site visit / Forensic Database (DNA), a sixth sensory
3. Physical conceptual massing model of your insertion into the shed including the site.

Monday February 25, 2008 – (due Wed. Feb. 27th)

4. (min.) 18"x 24" Draw a scaled floor plan of the total sf. for the research center in the context of the steel shed. (including all required program)
5. (min.) 18"x24" Draw a scaled section of the floor plan including the context of the steel shed.

Wed February 27, 2008 – (due Fri. Feb. 29th)

6. Physical massing model to scale based off of your floor plans and sections.

Note: your assignments will not be reviewed by the instructor if they are in your sketchbook or inside the computer. They must be on paper.