



IPRO 311

IIT Sustainability Image & Campus Branding

Statement of Problem:



- Lack of knowledge of IIT's green initiatives already in place
- Poor report card grade
 - Letter “D” on the college sustainability report card
 - Exploring if grade accurately reflect IIT's campus
- Existing problems with campus facilities which prevent us from being know as a “green” and innovative campus

Organization of the Teams & Goals



Marketing and Branding Group

Solar Workstation Group

Facilities and Steam Pipes Group

Marketing and Branding Group:



Goals:

Raising awareness of ways to make IIT more energy efficient and “green”. Promote image of IIT as a sustainable university. Overseeing Administration and general group assignments.

Members: Melissa Toops, Catherine Budzinski, Vinu Mohan and Gabriel Fontes de Faria

Progress Towards Goals



- Logo Competition in progress
 - Gets students and staff involved in identifying how they see IIT as “green”
 - Creates a visual connection for IIT to move forward as a sustainable campus

LOGO DESIGN COMPETITION

Create a logo that depicts and promotes IIT as a “green” and sustainable university.

Your design must include one or more of the following: “IIT”
“Illinois Institute of Technology” or IIT’S logo.



**THE TOP DESIGN WINS A
\$100 VISA GIFT CARD!!!**



Open to all IIT students, Faculty, and Staff.

Unlimited number of submissions per person.



Please submit your designs as JPEG files to iitgreenlogo@gmail.com

by **October 13, 2008.**

For more information contact us at iitgreenlogo@gmail.com

**THE TOP DESIGN WILL BE USED ON
T-SHIRTS, TOTE BAGS, AND MUCH
MORE!!!**

Progress Towards Goals



- Logo design uses identified:
 - Working with admissions department to produce canvas shopping bags featuring our logo created in the design competition
 - Will be sent to the parents of IIT students
 - Provides an opportunity to advertise IIT's stance in sustainability all over the world



Progress Towards Goals



- Green Speaker Event
 - Lecture given to IIT students, Faculty, and Staff
 - Promote IIT's support of sustainability on and off campus
 - Potential Green Speakers identified
 - Currently in the process of contacting the potential speakers

Progress Towards Goals



- Donated “We’re into Sustainability” Bags acquired
 - Donated by Admissions department
 - Will be distributed to IIT students and staff
 - Will help promote IIT’s interests in becoming a sustainable campus through the promotion of using of reusable bags



Obstacles Encountered and Solutions

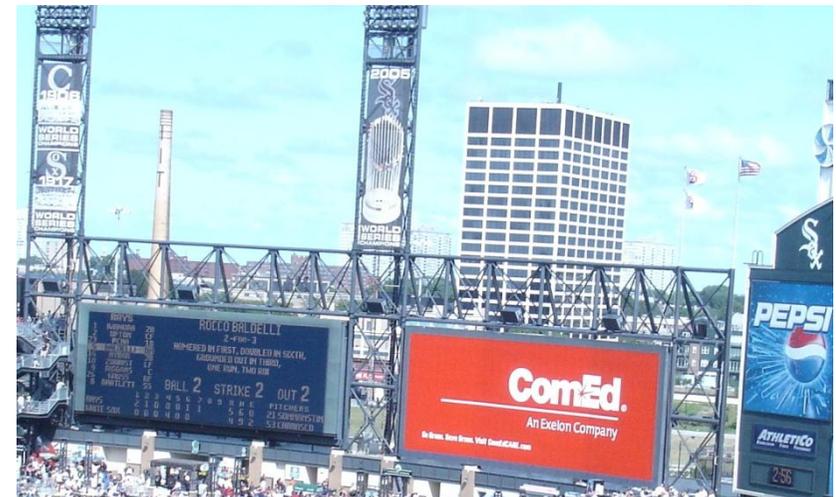


- Budget cuts
 - redistributed funds
 - considered donated materials vs. purchased materials



Anticipated Obstacles

- Green speaker event
 - Date confirmation
 - event attendance
- Solutions to advertising IIT on Main Building in a sustainable way
 - What kinds of alternatives to using non-renewable resources are available
- Realistic solution to the smoke stack beautification
 - Is Ivy the best choice
 - Is it possible structurally



Solar Workstation Group:

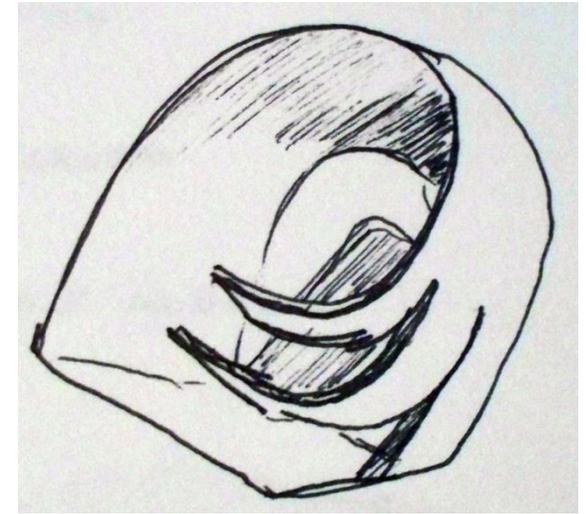
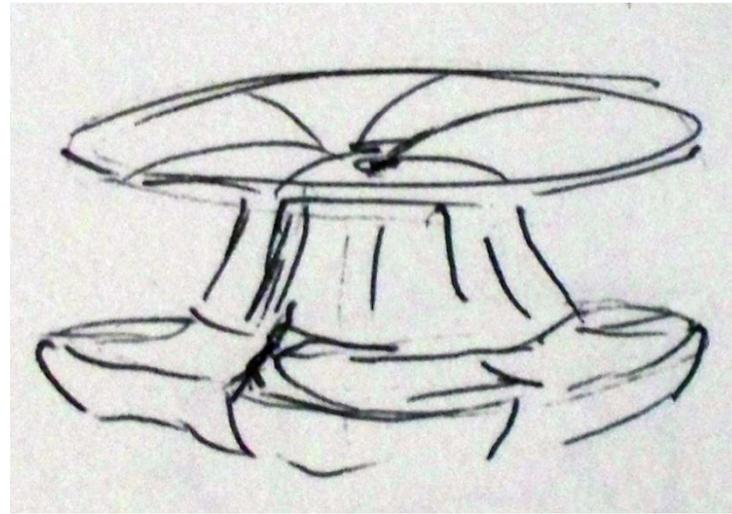
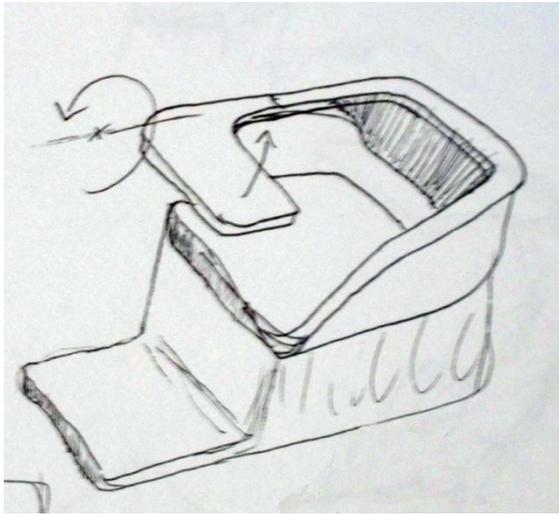


Design and build a solar powered workstation to be placed on IIT's main campus.

Members: Milanko Milesic (Leader), Nor Tanapura, Sacha Roubeni and John Kapecki.



DESIGN PROCESS

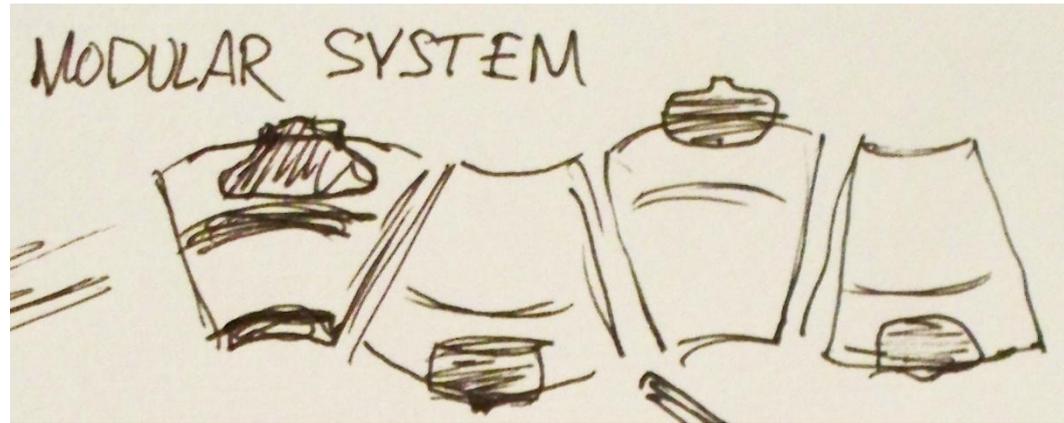
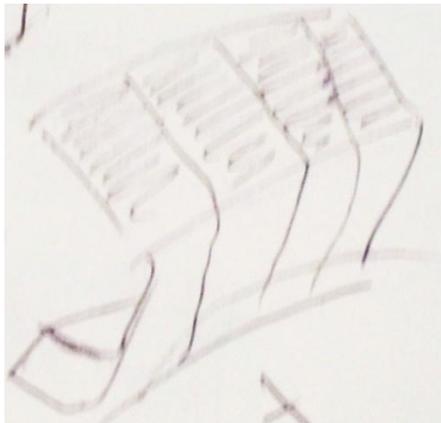
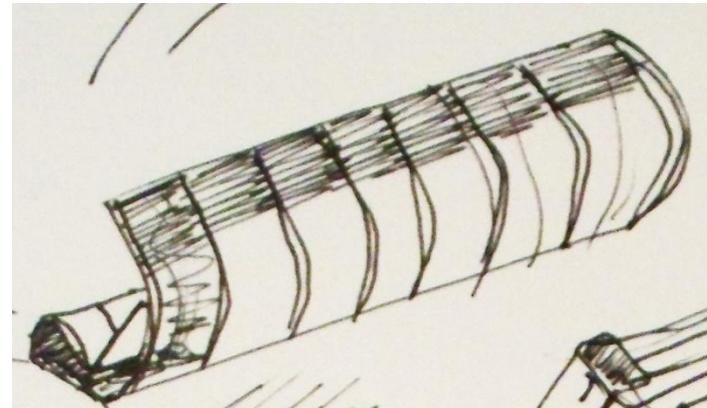
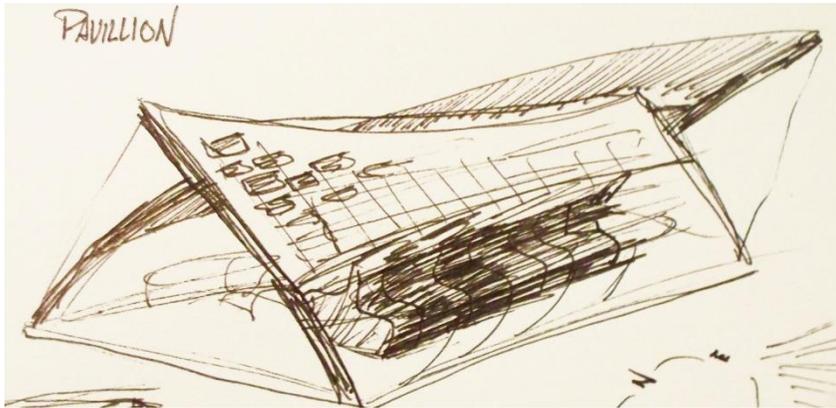


goals

- functional year-round by using it as a light sculpture at night and during winter
- sustainability should show in design through use of light, recyclable materials
- mobile and modular design, where each workstation is made for one person's use, but can be connected to others to form a bigger unit
- marketability to other educational institutions
- all components part of a unified design



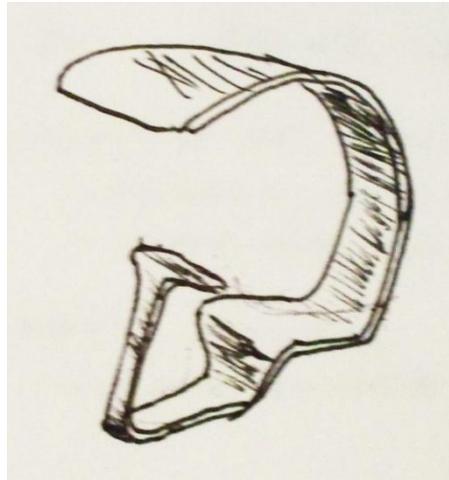
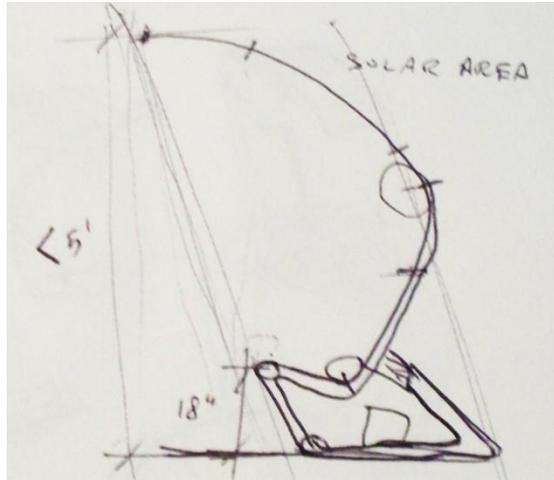
DESIGN PROCESS



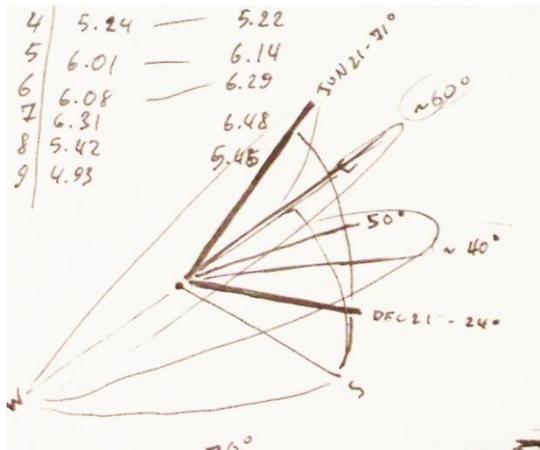
modular design



DESIGN PROCESS



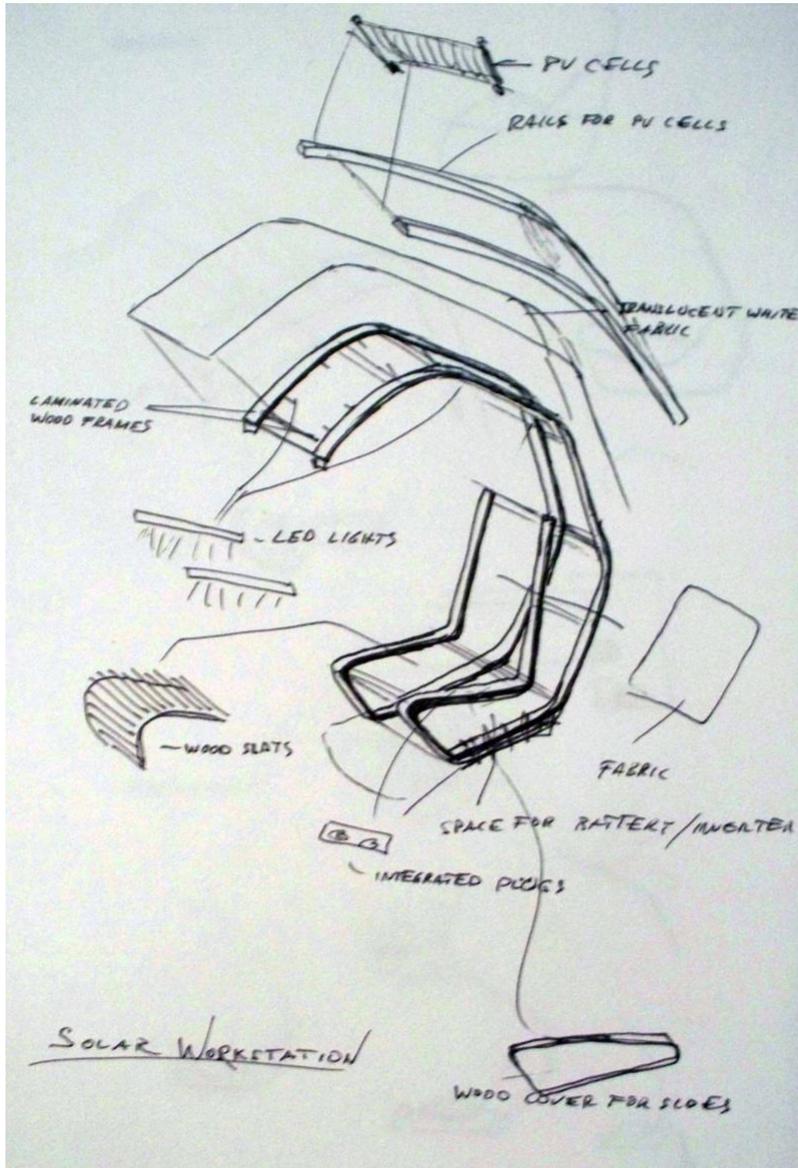
form + material





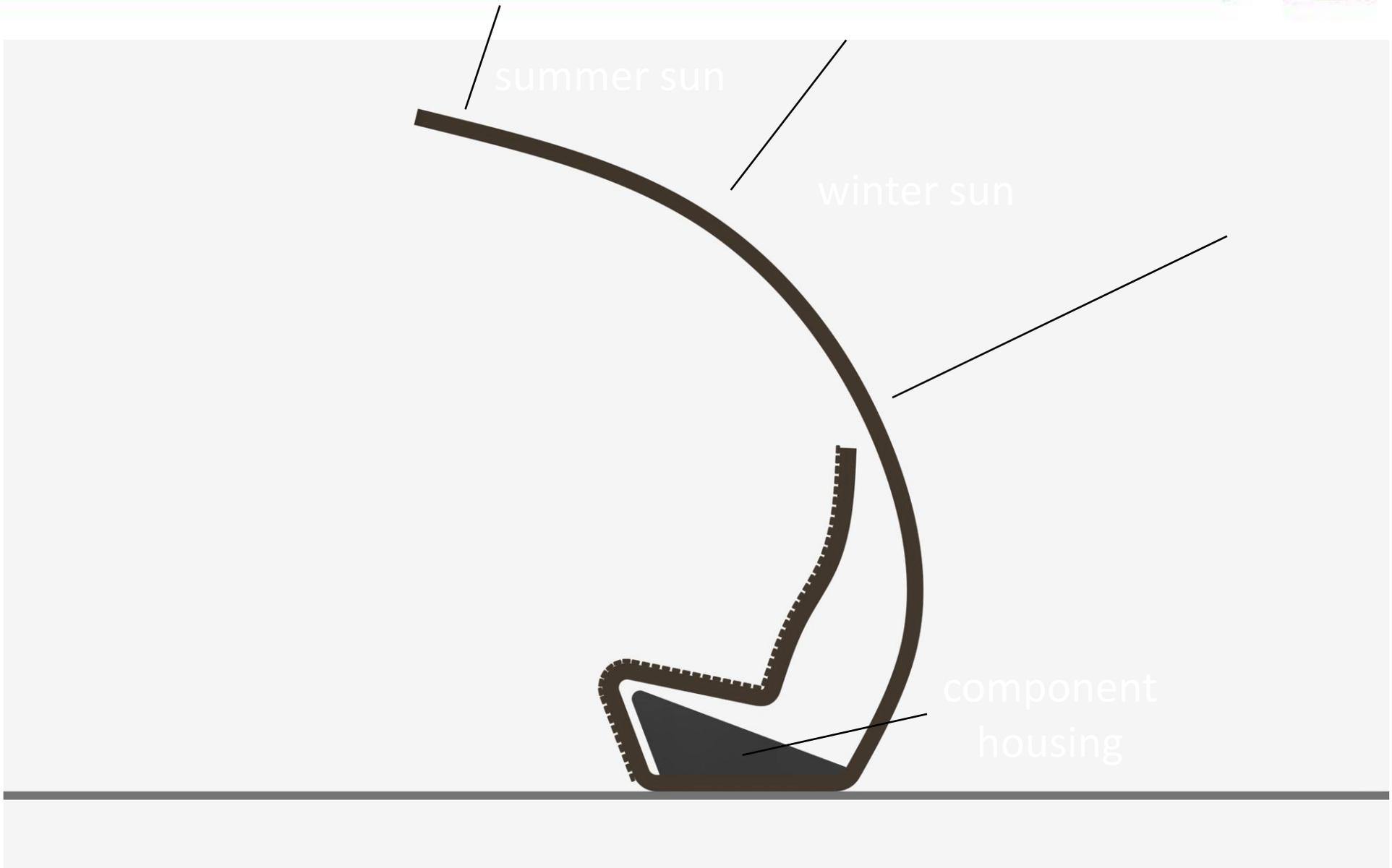
REALIZATION

form + material





REALIZATION

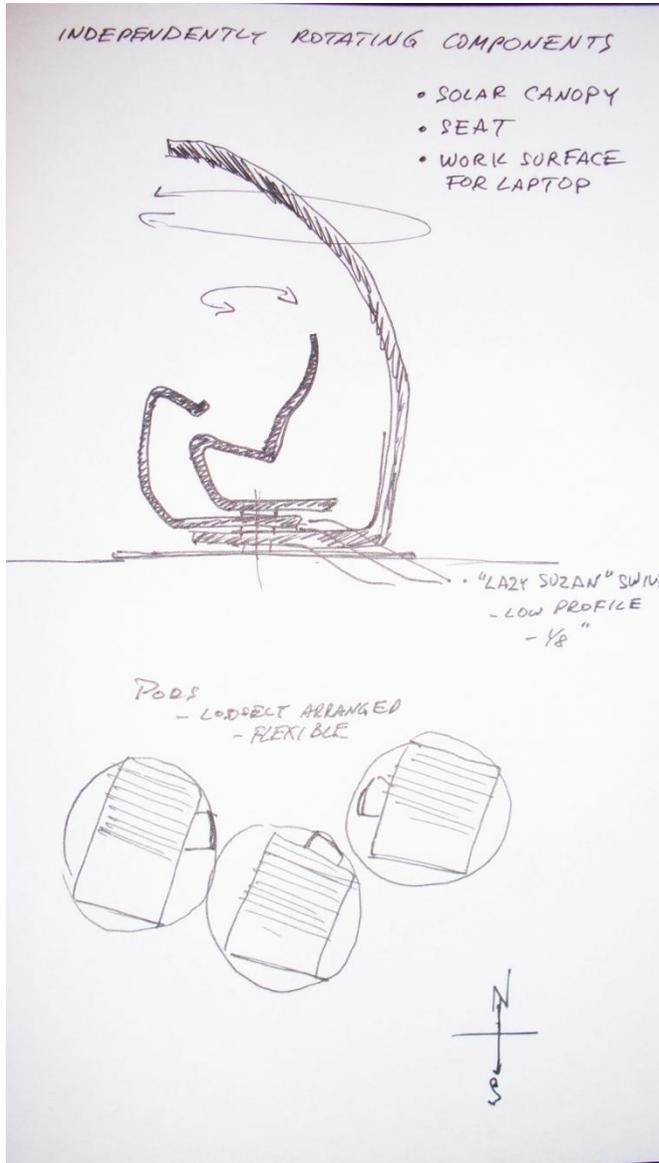


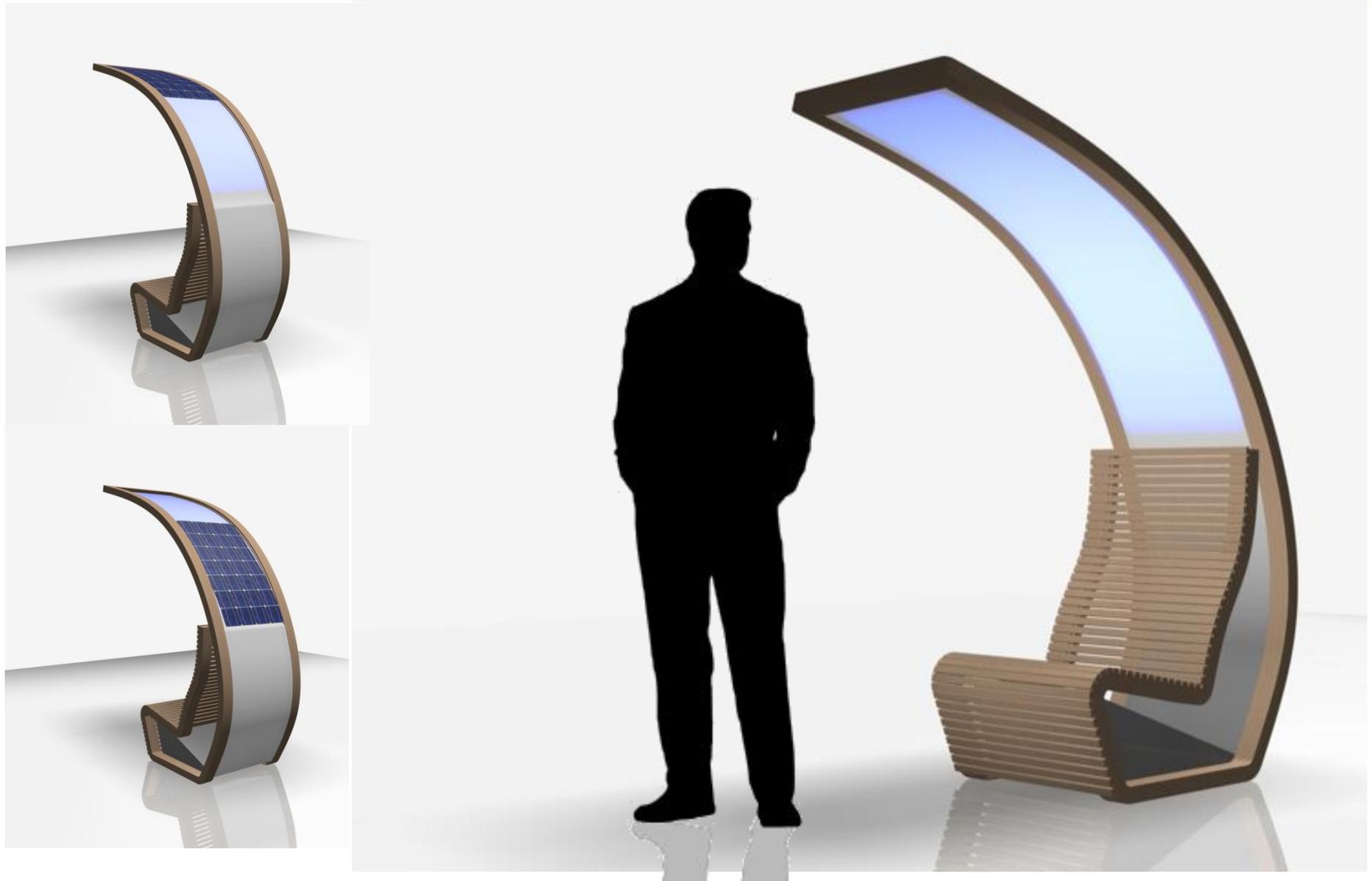


LOOKING AHEAD

anticipated obstacles

design issues





Facilities and Steam Pipes Group:



Work closely with campus Facilities Department to reduce wasted resources. Design and build art installations to embellish or conceal steam pipes on campus.

Members: Michael Chamales (Leader), Hyeran Um, Shawn Block and Justin Ma.

Progress Towards Goals



- Created a plan and rendering for permeable concrete
 - Installation in high traffic area will draw attention to project
 - Contacted company for pricing
- Researched alternatives to single pane glass
- Found suitable system to fix sprinkler issues
 - Supplier has been contacted
 - IIT's sprinkler maintenance personnel have been contacted with regard to implementation

Progress Towards Goals



- Specifications and design criteria for above ground steam pipes acquired
 - Ideas for blending steam pipes with landscape
 - Rendering of possible solution
- Initial green wall installation design complete

Greenwalls



- Conserve energy by shading west wall of E1
- Lets ambient light in
- Promotes environmental awareness and clean air
- Beautify campus
- Free standing; no need to trim around windows
- Possible use of some PV panels on side to power lighting inside after dark

Green Canopy at the day time



Green Canopy at the night time

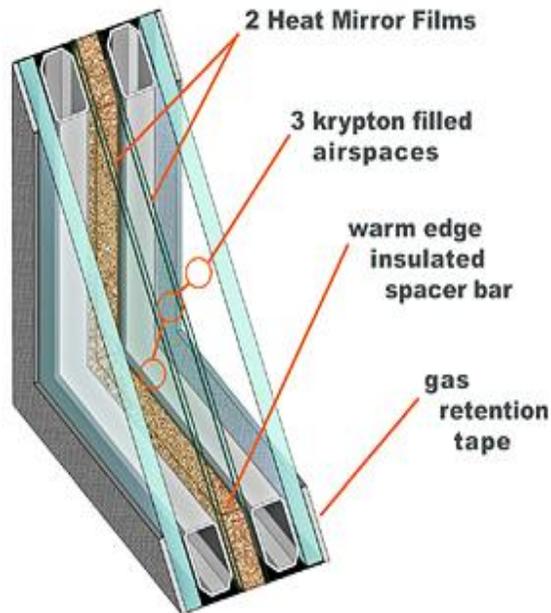


Window Replacement



- Many windows in campus buildings are single pane
- Increase building efficiency through insulation and save money; heating and cooling
- Use thermal dual or triple pane glass
- Argon or krypton filled
- Use of aerogel glass in translucent applications such as Keating Hall
 - R value is 8 per in.
 - High transmission of diffused light
 - Reduction in noise transmission
 - UV protection
 - 5X more insulating than standard insulated glass

Window Glass Possibilities



Rain sensors for irrigation system



- Rain / Freeze sensor wirelessly alerts timer to shut off during rainfall or during cold temperatures
- Use one sensor per timer (7 timers on Campus)
- Potable water demand is reduced
- Solar powered, that requires no electricity or batteries to operate
- Adjustable settings for rainfall trigger from 1/8-inch to 1 inch



Permeable Pavement



- Permeable pavement significantly reduces surface runoff volume
- Excellent storm water control
- Facilitates drainage in trouble areas
- Promotes sustainability on campus
- Paving of dirt path near E1
- Paving west of Vandercook

Permeable Pavement



Obstacles Encountered and Solutions



- Budget cuts
 - Redistributed funds
 - Eliminated things from original plan
- Ability to contact IIT maintenance personnel and supplier
 - Eventually did contact them
 - Supplier eventually returned call
- Info about steam pipes
 - Info acquired
 - New design made

Anticipated Obstacles



- Getting funds to implement modified sprinkler system
- Meeting specific design criteria for steam pipes
- Getting funds to install permeable sidewalk



Questions or Comments?