# **MTRL 466 MEETING MINUTES**

| **Project Name:** | Adaptive Architecture |
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| **Group:** | Sinclair |
| **Current Meeting:** | November 15, 2013 |
| **Minutes Prepared By:** | Vicki Pistner |

Attendees:

Chad Sinclair

Vicki Pistner

Jeremy Leung

Lauren Day

Juan Gerardo Ellorin

Ted Hung

Kush Shah

Agenda:

Opening discussion, attendance check, urgent matter

Update on week’s progress

Bimaterial/temperature analysis

Shape memory materials

Economics

Environmental

Presentation discussion

Review template

Presenter order

Topic division

Content discussion

Report discussion

Review template

Topic division

Content discussion

Scheduling

Additional topics

Final remarks

Minutes:

Update

**Bimaterial**

Jeremy

Data for heat, with exceptions

Plotted and made charts for actuation percentage

Excel sheets into graphs

CHAD –anymore thought on tailoring the design for different areas?

Could be over designed to allow for tailoring – could be included in final report in forward looking section

**SM**

Ted

Made mockup- will work at reasonable temps

Report – good progression for selection

Will be more advantage/ disadvantage based than biomaterials

CHAD – use tables or bar graphs with critical parameters? Ie. Stress./work/volume/temp range etc.

* Is a comparison in the paper he sent, use for ideas on formatting

Kush

Need to confirm calculations

CHAD – write up and send to me, will look over over the weekend and add comments

Details such as sourcing will be mentioned in the looking forward section

CHAD – can confirm both option work

What is left is a rational choice on what to move forward with.. most reliable, with support

**Eco-audit**

Vicki

Wrapping up air conditioner calculations and heat that can be save using the blinds

Economics need to be figured

And a payback period must be calculated

**Presentation**

Jeremy

Presentation template

Vicki, Ted and Jiggy are presenting

CHAD – think back to front, in terms of conclusion. Want to keep it simple and on topic

Hook

Very important – rhetorical question? Imagine?

CHAD – in the past have used a quote from an architectural article – something about sexy materials

Recap ( perhaps a different name)

Reminder on how we will make it successful

Environmentally friendly and cheap

CHAD – need to sell the idea, everything throughout should come back to this, the main goal

Fully autonomous with cool materials, because it works, because it is cool)

Similarities and then differences

CHAD- point – opportunity to say that this wasn’t a primary objective but we need a frame and covering that would function and these criteria were met.

Actuator Options

CHAD – what are they as briefly as possible, in one or two sentences, at this point should have a separation and talk about the two in parallel, the mechanisms are different but bring together at the end with the pros and cons ( **at end of each option, list pros and cons)**

Less detail on the materials themselves and more on the design

Stress strain is important, maybe animate it

Temp profiling could go before the actuator options with frame , temp profiles of Austin

Eco-audit

Goal of being environmentally conscious

CHAD – which is better and therefore we choose…

Need to be really clear on the economic analysis, and can you make it for less than the air-conditioning

Lower bound cost – materials

Include improvements in looking forward section

CHAD - never present everything you know

* Make sure you understand everything you present
* Leave them with the ideas you want in their heads
* Don’t be too open ended

Last slide

* Reiterate main points
* Both models work
* We choose
* We think eco advantage is
* Ideas proposed

Report

Lauren

Made template and switched it around to fit our project, going over the midterm report to see what can stay and go.

Meant to be concise and not overly technical

CHAD – crunched for time, one is not good enough

Lauren

Need to make distinction between open and closed for the blind

Open and closed refers to the blinds being open and closed

Expanded or collapsed refers to the unit box.

Use this from now on to avoid confusion in the report and presentation

Will complete scheduling this weekend

Heating of the room will be mention and calcs can be stuck in the appendix

COMMON IDEA we should be referring back to throughout

**Prove that we have designed something that functions**

All parts have to relate back to this, ask the question… does it prove this point?

Can add slides at the end of the presentation for back up in case questions come up.