

Minutes from the 10/22/10 meeting

Written by Billie Taylor
Friday, 22 October 2010 16:55 -

Website

Coyt has put in the new menu for Y1. We need to post content.

Stampede

Joe will be setting up the Tesla Coil at 1:30 PM. Lucky will meet Joe at the trailer. Anyone else interested needs to contact Joe.

The demonstration is in the Knopp building from 2 to 4 pm.

There is also another Stampede in November. We should get more demonstrations ready.

Halloween party

Halloween night at Dr. Fehr's house. We will have demos there for the neighborhood kids.

See the website for more details.

Expo

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Joe is going to test the vacuum pump on the fusor. He has made arrangements to test it sometime in the next week.

Need to get demos working: electrostatic lifter, ring launcher, coil gun, rail gun, capacitor bank.

Need more stuff to make/fix a plasma speaker.

Maybe a big Tesla coil if we have the time

Y1

Alex will post the schematic on the website for everyone to look at.

ARGO floats are the closest thing to Y1 that Coyt has found.

We need to talk to professors regarding suitable sensors for Y1.

We have our plywood/PVC prototype. Now we need to TEST!

Perhaps research pools at local places like YMCA, the aquarium, or possibly in a shallow area of the bay. Billie will research local pools with sufficient depth.

Northshore pool in St. Pete, supposedly 20+ feet. (727) 893-7727

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Brandon Swimming Tennis Club.

We can also look into renting a canoe or kayak to test the weight-release system at the beach.

We need to research the St. Pete campus for a deep pool and a pressure chamber that can be used to test our components. We can also talk to Dr. Fehr about facilities in Lakeland.

Sensors we want to test in a pressure chamber

Power components (wet cell, water turbine, solar panels)

Microcontrollers and components

Capacitors

Weight release system

In the future we could add sensors to monitor mineral content.

If we are going to vent our components, we probably want to use surface mounts.

Sensors

LM35 (temperature)

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Accelerometer

Photoresistor (light sensor)

Pressure transducer (pressure sensor)

Power system

Capacitors

Electric

Ceramic

Batteries

Wet cell battery

Will have to be really well designed.

Possibly use the wings to increase surface area.

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Regular batteries designed for deep sea, like those on the ARGO floats.

Water turbine

Solar

Would only work at the top. Maybe use it for the GPS and APRS independently.

We need to find a good power storage device.

Alex wants to design a breadboard after Thursday to put together and test at 100-200 feet next weekend.

Joe Johns might be able to get us access to a smaller boat.