

901405 - Wave-Energy Conversion for Oceanographic Applications

Week 26

1. Rich Henthorn
 - a. New battery integration postponed
2. Scott Jensen
 - a. Helped check out of HDS Harbor battery

Week 25

1. Francois Cazenave
 - a. Preparing equipment for deployment
2. Rich Henthorn
 - a. New battery commands
3. Scott Jensen
 - a. Representative from HDS and UofW APL are onsite for battery testing
 - b. A few issues and concerns have been found
 - c. Future discussions will be around resolution

Week 24

1. Francois Cazenave
 - a. PTO preparations

Week 23

1. Francois Cazenave
 - a. Assembling and testing PTO
 - b. Preparing mooring (measuring EM cable etc)
2. Scott Jensen
 - a. Supporting HDS battery bring-up
 - b. Lots of features and trying to understand and check out their function
 - c. Slow start seems to be the biggest issue as they assume a nearly pure capacitive load.
3. Justin Tucker
 - a. Finalized various small parts to shop and orders for assembly

Week 22

1. Francois Cazenave

- a. PTO assembly and test
- 2. Scott Jensen
 - a. HDS battery has received
 - b. Catching up on the development process of the AUV dock

Week 21

- 1. Justin Tucker
 - a. Continued work on Subsea housing endcap mod
 - b. Continued work on Subsea housing chassis design
 - c. Endcap PRV test fixture design

Week 20

- 1. Rich Henthorn
 - a. Canbus comms for new battery
- 2. Justin Tucker
 - a. Continued work on subsea housing electronics layout

Week 19

- 1. Francois Cazenave
 - a. Tether preparation
- 2. Rich Henthorn
 - a. New battery comms protocol
- 3. Justin Tucker
 - a. Battery housing endcap and subsea housing support

Week 17

- 1. Francois Cazenave
 - a. Buoy assembly
 - b. Buoy deck cable layout
- 2. Justin Tucker
 - a. Battery endcap and Docking subsea housing design, continued work

Week 16

- 1. Justin Tucker
 - a. Continued work on subsea housing, and battery housing endcap

Week 14

- 1. Francois Cazenave
 - a. Buoy plate design
 - b. Buoy foam modifications

- c. Battery housing design

Week 13

1. Francois Cazenave
 - a. Buoy plate design
2. Justin Tucker
 - a. Battery endcap design

Week 12

1. Francois Cazenave
 - a. Designing buoy top plate
2. Scott Jensen
 - a. Reassembled bench system with new torque sensor

Week 11

1. Francois Cazenave
 - a. Tether assembly
 - b. Buoy re design
 - c. Mooring design
2. Justin Tucker
 - a. Pressure relief valve design
 - b. Endcap design

Week 10

1. Justin Tucker
 - a. Wave climate data processing
 - b. Battery Housing endcap design

Week 9

1. Francois Cazenave
 - a. Designing new mooring
2. Eric Martin
 - a. Sent load cell board back to vendor.

Week 7

1. Scott Jensen
 - a. Preparation for onsite visit to DolphonLabs
 - b. Onsite visit to DolphinLabs

Week 6

1. Francois Cazenave
 - a. Fixed laser range finder

Week 5

1. Francois Cazenave
 - a. Designing new mooring
2. Scott Jensen
 - a. Helping set up calibration routines for the 6 new boards sets.
 - b. Overseeing HDS battery fabrication
 - c. Preparing lab set up for the arrival of the HDS battery

Week 4

1. Francois Cazenave
 - a. Working in new mooring design
2. Scott Jensen
 - a. Search for powerline technologies
 - b. Located [G.Hn](#) which looks like a strong contender
 - c. Preparing for Dolphin visit.
 - d.
3. Justin Tucker
 - a. Mooring design analysis

Week 3

1. Francois Cazenave
 - a. Troubleshooting laser
 - b. Designing new mooring
 - c. PTO Compensator modification
2. Scott Jensen
 - a. Beginning build up of test bench power electronics
 - b. Support of Battery build

Week 2

1. Francois Cazenave
 - a. Troubleshooting the laser
2. Scott Jensen
 - a. Our Laser range finder still seems to be failing and the mode or means is eluding the team
3. Eric Martin
 - a. LRF power review, only advising right now.