

Denis Klimov

Week 51

- 300083 - DMO Divisional Support - LRAUV
- 901112 - Monterey Bay Time Series
- 901809 - Deep Sea Bioinspiration
- 901903 - BioRAMAN
- 902004 - Planktivore
- 902101 - LRAUV Technology Development and Fleet Operations
- 902204 - Scalable Robotics
- Overhead
- Out of Office

Week 50

- 300083 - DMO Divisional Support - LRAUV
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Week 49

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Week 48

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Week 47

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Week 46

- 300083 - DMO Divisional Support - LRAUV
- 901112 - Monterey Bay Time Series
 - Table for the IFCB repair is configured, IFCB is suspended from the overhead rail system. Ordering a new leak tray for under-the instrument and to hold reagent bags.
- 901809 - Deep Sea Bioinspiration
- 901903 - BioRAMAN
- 902004 - Planktivore
 - We are consolidating parts and tools for Fluume in the ESB building this week.
- 902101 - LRAUV Technology Development and Fleet Operations
- 902204 - Scalable Robotics
- Overhead
 - We are working on the issue on the handling soldering materials flumes, especially with water-soluble soldering materials, from both EE and Safety perspective. The path forward is identified, that is to use flat down-draft boxes similar to one existing box, but make them smaller and easier to swap, and also make options for different size ducts, 6", 4", and 2".
- Out of Office

Week 45

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Week 44

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Week 43

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Week 42

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Week 41

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Week 40

- 300083 - DMO Divisional Support - LRAUV
- 901112 - Monterey Bay Time Series
 - Parts for IFCB repair finally received. Looking into configuring a repair space which is challenging due to the instrument size and configuration
- 901809 - Deep Sea Bioinspiration
- 901903 - BioRAMAN
- 902004 - Planktivore
- 902101 - LRAUV Technology Development and Fleet Operations
 - Helped debugging a compass on Thetys which experienced some sort of intermittent fault causing burning out a U14 on the Compass control card. Two cards were damaged. Upon inspecting / removing the damaged component it was found that pin 2 of damaged IC was fused to the pad on both boards, indicative of a high current. This line was then traced through the vehicle and front end-bell for possible

parasitic connections and one was indeed found; battery voltage from one of the components which only activated occasionally, was shorted to the suspected compass communication line.

- 902204 - Scalable Robotics
- Overhead
 - Safety Committee meeting this week
- Out of Office

Week 39

- 300083 - DMO Divisional Support - LRAUV
- 901112 - Monterey Bay Time Series
 - Looks like McLane is going to ship parts for IFCB repair this week
- 901809 - Deep Sea Bioinspiration
- 901903 - BioRAMAN
- 902004 - Planktivore
- 902101 - LRAUV Technology Development and Fleet Operations
 - PAR sensor debugging on AHI, turned out it was the control analog card, not the sensor. Once the board was configured, the PAR channel started working. We might have to look at calibrating this unit once the vehicle is back.
- 902204 - Scalable Robotics
- Overhead
 - Lab B232 configuration is well underway. We are looking at configuring the rest of the shelving on the left side of the lab before the other projects move-in.
- Out of Office

Week 38

- 300083 - DMO Divisional Support - LRAUV
- 901112 - Monterey Bay Time Series
 - We are still waiting for parts for IFCB from McLane
- 901809 - Deep Sea Bioinspiration
- 901903 - BioRAMAN
- 902004 - Planktivore
- 902101 - LRAUV Technology Development and Fleet Operations
 - We had the issue with one operating a PAR sensor on Ahi, with debugging, turned out it was an incorrectly configured controller card, not the sensor itself
- 902204 - Scalable Robotics
- Overhead
 - Lab reconfiguration is close to completion. Importantly, storage of Thorlabs optomechanical parts had been figured out.
- Out of Office

Week 37

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Week 36

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Week 35

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Week 34

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Week 33

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Week 32

- 300083 - DMO Divisional Support - LRAUV
- 901112 - Monterey Bay Time Series

- Repaired pumps are received from McLane but the rest of the order for rotary valve, needle, and filter cartridges is still back-ordered.
- 901809 - Deep Sea Bioinspiration
- 901903 - BioRAMAN
- 902004 - Planktivore
 - We are moving Fluume assembly and associated parts to ESB.
- 902101 - LRAUV Technology Development and Fleet Operations
- 902204 - Scalable Robotics
- Overhead
 - The overhaul of the lab B232 is well underway. This week, facilities are starting removal of the countertops from the right side of the lab which is to be reused in the left side in the laser curtain area. The 30" countertops on the right are going to be replaced with a deeper 36" countertop allowing placement of larger equipment such as LPKF router and pick-and-place machine.
- Out of Office

Week 31

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Week 30

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Week 29

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- 901112 - Monterey Bay Time Series
 - The IFCB pumps had been refurbished at McLane. Turned out, one of the motors did not just come out of alignment, but actually failed. McLane is shipping back the refurbished pumps as well as the failed motor for a post-mortem.
- 901809 - Deep Sea Bioinspiration
 - Working on an Open House layout.
- 901903 - BioRAMAN
- 902004 - Planktivore
- 902101 - LRAUV Technology Development and Fleet Operations
- 902204 - Scalable Robotics
- Overhead

- The B232 lab reconfig is well underway. This week, we are completing new shelving in the curtain area, and starting setting counters. Also the issue of horn-strobe fire alarm location is close to being resolved: we are looking at the relocation of a horn-strobe into the center of the lab; and install additional strobe only (no horn) in the curtain area.
- Out of Office

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 - 6/12/2023-6/15/2023
 - 7/3/2023-7/6/2023
 - 7/11/2023-7/14/2023

Week 27

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 - 7/3/2023-7/6/2023
 - 7/11/2023-7/14/2023

Week 26

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 - 6/12/2023-6/15/2023
 - 7/3/2023-7/6/2023
 - 7/11/2023-7/14/2023

Week 25

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 - 7/11/2023-7/14/2023

Week 24

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Week 23

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Week 21

- 300083 - DMO Divisional Support - LRAUV
- 901112 - Monterey Bay Time Series
 - We had to do emergency recovery of IFCB using a trip with Paragon to Power Buoy location due to rising humidity. Suspecting internal needle clogging similar to what other groups along the Western seaboard are experiencing, especially close to shore due to silt contamination. First time emergency recovery was an experience; overall it came OK and we certainly learned of some improvements for the next time. Opening the instrument, there was about 5 mL of the water inside; so not a significant leak, luckily, and no much damage.
 - We are consulting with McLANE and other users on possible solutions and have parts on order. A new model of the needle introduced by McLANE recently, slightly larger and polished inside, is of particular interest.
- 901809 - Deep Sea Bioinspiration
- 901903 - BioRAMAN
- 902004 - Planktivore
- 902101 - LRAUV Technology Development and Fleet Operations
- 902204 - Scalable Robotics
- Overhead
 - We are looking at the installation option for a new reflow oven (with Jose Rosal) and lab B232 reconfiguration.
 - We did an additional review of a Paragon HPU battery system design; and figuring out what is the scope of responsibilities of EE Design Battery Safety Sub-committee
- Out of Office
 - 6/12/2023-6/15/2023
 - 7/3/2023-7/6/2023
 - 7/11/2023-7/14/2023

Week 20

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Week 19

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- 901112 - Monterey Bay Time Series
 - We are running into some issues on the IFCB operation on Power Buoy after a power outage and not sure yet if they can be rectified remotely; also, possibly, the issue came about during towing of Power

Buoy out of the harbor due to silt contamination such as happening to the other IFCBs used near harbors and jetties by other users on the western seaboard this is

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- 902004 - Planktivore
- 902101 - LRAUV Technology Development and Fleet Operations
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- Overhead
 - Looking at installation issues and laser safety aspects of a projectors demos in the Pacific Forum. Documentation provided by Sony included a warning that the projector with the lens removed emits Class 4 laser radiation. This is a serious hazard level capable of damaging eyes as well potentially damaging for the skin. Normally the lens would not be casually removed. Still, having an embedded Class 4 laser be so easily accessible is a safety concern. With a lens installed, such a projector is rated as a Class 1/ Risk Group 2 or Class 1/ Risk Group 3 which also have a number of installation and access concerns.
- Out of Office

Week 18

- 300083 - DMO Divisional Support - LRAUV
- 901112 - Monterey Bay Time Series
 - We had finally deployed IFCB on Power Buoy! Due to deployment delays, we had to keep the instrument in the lab in closed configuration which means we had to set a local network test environment in order to monitor and control the IFCB. Deployment went well but then we lost power overnight due to calm conditions which created what looks like bubbles in the sheaf circuit. This issue is taking some effort to overcome using remote controls but looks like performance is getting better so with any luck we could get the instrument back to 100% performance without recovering.
- 901809 - Deep Sea Bioinspiration
- 901903 - BioRAMAN
- 902004 - Planktivore
- 902101 - LRAUV Technology Development and Fleet Operations
- 902204 - Scalable Robotics
- Overhead
 - The laser safety procedure for the CoMPAS Laser Line Imager was implemented (with Giancarlo Troni and Paul Roberts) and subsequently the instrument was deployed on R/V Fulmar which turned out to be a success.
- Out of Office

Week 17

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Week 16

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Week 15

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Week 14

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- Overhead
- Out of Office

Week 13

- 300083 - DMO Divisional Support - LRAUV
 - Two debugged battery packs seem to be operating so far.
- 901112 - Monterey Bay Time Series
 - Software update for the IFCB instrument had created some problems which were eventually resolved. We are continuing testing the software and started equalizing the instrument to the seawater in a preparation for the upcoming deployment
- 901809 - Deep Sea Bioinspiration
- 901903 - BioRAMAN
- 902004 - Planktivore
 - We are encountering mechanical fit issues with strobe assemblies, due to the stack of tolerances and multiple boards and components. We are hoping to resolve those issues fairly soon, at least partially, allowing upcoming deployment.
- 902101 - LRAUV Technology Development and Fleet Operations
 - Two amplified PAR sensors assembly underway
- 902204 - Scalable Robotics
- Overhead
- Out of Office

Week 12

- 300083 - DMO Divisional Support - LRAUV
- 901112 - Monterey Bay Time Series
- 901809 - Deep Sea Bioinspiration
- 901903 - BioRAMAN
- 902004 - Planktivore
 - Fluum is in a stage of final touches with fasteners update, plus it needs an 4" acrylic straight pipe (Aaron), aluminum lock plate (Roman) for the drain plug, and shelve(s). Flume had been moved to the wet lab so we could ramp up prepping for the water test while outstanding mechanics is being worked on.
- 902101 - LRAUV Technology Development and Fleet Operations
- 902204 - Scalable Robotics
- Overhead
- Out of Office

Week 11

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Week 10

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- Overhead
- Out of Office

Week 9

- 300083 - DMO Divisional Support - LRAUV
 - LRAUV battery pack testing setup was overhauled back into operation. We are to test 2 battery packs after mechanics are rebuilt due to cracking frames resulting from age and field deployments. Also, training Quinn Shemet on using the test setup.
- 901112 - Monterey Bay Time Series
- 901809 - Deep Sea Bioinspiration
- 901903 - BioRAMAN
- 902004 - Planktivore
 - We are making good progress reinforcing and straightening out the Flume mechanical and piping structures, both as it turned out, sugged under the load in initial tests (with Aaron). Once

reinforcement/ straightening are successful, we are to proceed with a final assembly of lifters, table, optical breadboards, and the aquarium

- 902101 - LRAUV Technology Development and Fleet Operations
- 902204 - Scalable Robotics
- Overhead
- Out of Office

Week 8

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- Overhead
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Week 7

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- 902101 - LRAUV Technology Development and Fleet Operations
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Week 6

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- 902101 - LRAUV Technology Development and Fleet Operations
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- Overhead
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Week 5

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- Overhead

- Out of Office

Week 4

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Week 3

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Week 2

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Week 1

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