

Engineering Weekly Report 10/31/2024 - 11/7/2024

<https://docs.mbari.org/internal/projects/Engineering/Weeklies/2024/>

Executive Council Notes

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Individual Activities

- Michael Anderson
- Kevin Barnard
 - Out of Office
 - Monday and Wednesday mornings before 9am: physical therapy until Dec 15, 2024
 - Maldives Nov 15, 2024 – Nov 29, 2024
 - Vacation Dec 16, 2024 – Dec 27, 2024
- Francois Cazenave
 - 901405 - Wave-Energy Conversion for Oceanographic Applications
 - Range-finder troubleshooting
 - Seal replacement (PTO and ram)
 - Cable order
 - 902106 - Niobicon-Based AUV Docking Development
 - Photosensor installation
 - New AUV elevator
 - 902204 - Scalable Robotics
 - Drawings for presentation
 - Rear bumper for ROV
 - Overhead
 - Pressure chamber upgrades
- Danelle Cline
- Duane Edgington
 - Out of Office
 - Oct 21 - Nov 8, 2024. Vacation UTC+1
 - Dec 8 - Dec 17, 2024. [Neurips](#) Conference. Vancouver, BC.
- Jon Erickson
- Kevin Gomes
 - Out of Office
 - Nov 18-22: Vacation/Remote Work
- Andy Hamilton
- Kent Headley
 - 901101 - Seafloor Mapping
 - Finalizing testing of libproj support for MB-System/libtrnav with Dave C.
 - 902204 - Scalable Robotics
 - Reorg GUI branch, finalize changes, Submit PR
 - Testing GUI support for Oculus 750d on Mola (for Maldives)
 - Potential Oculus software install on new project laptop
 - Overhead

- Hiring planning
 - Misc admin
- Rich Henthorn
 - Out of Office
 - Dec 20 - Dec 31: Vacation/Holidays
- Akshay Hinduja
 - 702108 - Deployable AI
 - Wrote python scripts to leverage gstreamer library to run cameras on agx orin
 - Troubleshoot issues with multicam. Only one camera is responsive
 - Contact Connect Tech for possible solutions
 - 902204 - Scalable Robotics
 - Bug fixes for gui-control behaviour
 - Integrate s7k logging into alpha driver
 - Prepare beta driver system
- Brett Hobson
- Irene Hu
 - 901217 - Chemical Sensors
 - MSC3 Baseboard rC is in layout
 - Parts inventory for MMS Digital Boards next build
 - Working w/ Ben on preprogramming chips before sending to Indtec
 - 901805 - Coastal Biogeochemical Sensing Program
 - Working on non-isolated version of Nanofet
 - 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Updated camera firmware which broke some things; trying to get eCapturePro to work
 - Looked into image registration
 - Overhead
 - Bike to work 11/6/24, 11/19/24
 - Out of Office
 - 11/25-11/29: Thanksgiving holiday
- Scott Jensen
 - Out of Office
 - October 7-9
- Brent Jones
 - Out of Office
 - 2 sick days
- Chad Keycy
 - Out of Office
 - Out of office on Fridays
- Brian Kieft
 - Out of Office
 - 10/23-29 (MST)
 - 11/06-12 (CST)
 - 11/15-12/2 (PST)
- Denis Klimov
- Eric Martin
 - 901101 - Seafloor Mapping
 - 3DatDepth Call, expecting FAT in December
 - 901405 - Wave-Energy Conversion for Oceanographic Applications

- Francois finally found the short in the system, due to wires rubbing the inside of the tube. Will be addressed.
- 902204 - Scalable Robotics
 - Offshore last week with the MiniROV, and highly successful technically, as all items functioned well within design.
 - Preparing for the Maldives Expedition
- Out of Office
 - Maldives Expedition 11/15-11/28, and will be highly out of communication.
- Thom Maughan
 - Out of Office
 - Oct 24 two weeks vacation Colorado.
- Mike McCann
 - 901009 - CANON
 - Processed Dorado mission 2024.303.01
 - 901101 - Seafloor Mapping
 - Diagnosed some display/rendering issues
 - Verified Compilation thumbnail image finding logic
 - 901221 - Midwater Time Series
 - At Rob's request added more dives to [stogs_rovctd_mw93_t](#)
 - Looking at populating Expd's RovctdBinData tables with our edited rov nav data
 - 902403 - Expedition DB Modern
 - Fleshing out Precruise pages
 - Collecting several [more Issues](#) that have been provided by our users
 - Out of Office
 - 14-19 November 2024: Vacation
- Rob McEwen
- Paul McGill
 - Overhead
 - Have worked all week either preparing for SeismoSands or going to sea to deploy SeismoSands seismometers (charged to Charlie's project, which isn't listed here)
- Enoch Nicholson
 - Out of Office
 - April 5-10 Vacation (Available via Slack & Email)
 - April 14-18 IEEE Oceans (Available via Slack & Email)
 - April 19-23 Vacation (Unavailable)
 - September 4-5 Vacation
 - September 19-24 Vacation (Unavailable)
- Tom O'Reilly
- Mike Risi
 - Out of Office
 - Offsite on Tuesday and Friday
 - January 16 - January 19, 2024
 - February 22, 2024
 - March 4 - March 8, 2024 - vacation
 - April 24, 2024 - vacation
 - May 20 - May 24, 2024 - vacation
 - June 17 - June 18, 2024 - vacation
 - September 3 - September 9, 2024 - vacation
 - November 6- November 7, 2024 - vacation

- November 26 - November 27, 2024 - vacation
 - December 30 - January 3, 2025 - vacation
- Paul Roberts
 - 702108.99 - 6-eye camera-compute mod
 - Starting fabrication of v1 system
 - 901513 - Targeted Sampling by AUVs
 - Figures and text for JFR submission
 - 902001 - Ventana 4k Camera
 - Finishing assembly and fixing issues with lens zoom speed
 - 902004 - Planktivore
 - Data management
 - 902111 - Carbon Flux Ecology
 - Data management
 - 902306 - SINKER
 - Sourcing parts for SIT camera, motors, and hardware interfaces
 - Out of Office
 - Nov 25-29 Vacation
 - Jan 6-10 Vacation
- Brent Roman
- Carlos Rueda
 - 701165 - OVAI P2
 - CMS-UI: Reviewed PR by Joost—great job!
 - 902101 - LRAUV Technology Development
 - Dash4: Minor maintenance release.
 - 902204 - Scalable Robotics
 - Dial now [1.4.5](#).
 - Continuing Dial-MolaRS integration.
 - Out of Office
 - Nov 11: vacation
 - Nov 18–20: QCon
 - Dec 9–12, 23–24, 30–31: vacation
- Karen Salamy
 - Out of Office
 - US React Summit Conference: November 19-24, 2024, NYC.
 - Vacation: Friday, Oct 25, 2024 - Having another shoulder procedure and will be out the whole day.
 - On-campus 3 days/week (**T, W, TH**).
- Brian Schlining
 - 500055 - VARS, M3/RS, DSG
 - Working on the [VARS Query web interface](#).
 - 902002 - FathomNet
 - We're restructuring the subdomains. Added database.fathomnet.org.
 - 902304 - Piscivore Cam
 - Loaded about ½ million ML proposals into VARS for this years deployments
 - Overhead
 - Helping OSU sort out some Network issues with their VARS lab
 - Out of Office
 - Oct 7-11 - 5th Marine Imaging Workshop in Monterey
 - Oct 14-15 - Out sick
- Alana Sherman

- 902208 - Mini ROV Operations
 - We finished up two weeks of operations on the Carson, demob was Friday
 - Had two troubleshoot ground fault on 24V, looks like it was connection to the depth sensor
 - Taking apart topside and reconfiguring for upcoming days on the Fulmar
 - Put in po for sonardyne usbl system
- 902401 - Geo-Sense
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- Out of Office
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- George Stern
 - 902204 - Scalable Robotics
 - Oak500M chassis build, fixturing and harnessing designs, parts ordering
 - Completed laser mount build and installed on mola
 - 902304 - Piscivore Cam
 - Rhonda software legal agreements and coordinating next steps
 - 902306 - SINKER
 - Identifying new reduced scope battery architecture
- Justin Tucker
 - 901101 - Seafloor Mapping
 - Thermal experiment
 - Purchased and assembled hoses and fittings
 - Designing heated plume nozzle
 - 902010 - Mesopelagic LRAUV
 - Continuing work on DVL housing drawings and miscellaneous nose assembly parts
 - tail shell router jigs
- Johann Voigtlander
 - 902204 - Scalable Robotics
 - MiniROV Operations all well
 - 902208 - Mini ROV Operations
 - Demob
 - 902402 - CSEM
 - Wrote up a deployment procedure
 - Edited deployment video with annotations
 - Out of Office
 - April 16th - May 7th Germany CSEM
 - May 8th - May 12th Vacation