

Engineering Weekly Report 3/30/2023 - 4/6/2023

Executive Council Notes

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Individual Activities

- Michael Anderson
- Kevin Barnard
 - 902002 - FathomNet
 - Working on ORCID authentication/attribution for FathomNet
 - 902204 - Scalable Robotics
 - Several fixes to lcm-websocket-server
 - Dockerizing lcm-websocket-server
 - Calibrating new stereo cameras
 - DQ2209 - Ocean AI 2
 - NSF program director visit
 - Out of Office
 - Volunteering at FRC competitions for York school, 2023-03-31, 2023-04-06, 2023-04-07
 - Jury duty 2023-04-03
- Francois Cazenave
- Danelle Cline
 - Out of Office
 - out-of-office vacation April 3-7th
- Duane Edgington
 - Out of Office
 - Vacation: March 21 - 29. Sick leave March 30 - April 5.
- Jon Erickson
- Kevin Gomes
 - 300070 - DMO Divisional Support - Ventana
 - Helping with some networking issues
 - Overhead
 - Meetings related to filling in for Andy
 - Catching up from couple days vacation
 - Cybersecurity meetings with vendor
 - Management overhead (quite a bit)
 - NSF Seminar
 - Out of Office
 - Mar 30, 31: Vacation
 - Aug 28-Sep 12: Vacation
- Andy Hamilton
- Kent Headley
 - 300057 - Mooring Maintenance
 - Testing fix for GPS, GPSClock drivers; looking good
 - Working w/ Dave and Jared on troubleshooting metsys
 - 902204 - Scalable Robotics

- DMO made a super effort last week during heavy weather to run the Gemini sonar and and collect some data for Compas Lab. kudos to DJ and Knute.
- Overhead
 - hiring
 - misc admin
- Out of Office
 - vacation (4/28 - 5/1)
- Rich Henthorn
 - 300078 - DMO Divisional Support - AUV
 - Migrate dev to local VM
 - Build system and set up a TRN test
 - 902305 - Event Detection using the Sedimentation Event Sensor
 - Image analysis
 - Test SES for upcoming deployment
 - Overhead
 - Rec-Com
 - Out of Office
 - May 8: SES deployment on MARS node
 - June 1 - 9: Vacation
 - June 29 - July 10: Vacation
 - July 24 - Aug 3: Vacation, WFH
- Brett Hobson
- Scott Jensen
 - Out of Office
 - March 31 - April 6
- Brent Jones
- Chad Keczy
- Brian Kieft
- Denis Klimov
- Eric Martin
 - 901101 - Seafloor Mapping
 - Lab cleanup
 - Kearfott driver
 - 901405 - PowerBuoy Development
 - EM Cable Termination tests
 - Replacing Yellow Cable
 - Radar Testing
 - 901911 - ROVVR
 - Lab cleanup
 - Intern preparation
 - 902012 - Telepresence
 - Our paper got accepted with major revision requests.
 - 902204 - Scalable Robotics
 - MiniROV integration
 - Software for raspberry pi zero to control relay board and vn100
 - Ordering DVL
 - Intern meetings
 - Overhead

- SEESC interviews on zoom last week.
 - SEESC meeting tuesday.
- Out of Office
 - Impacted by minimum week for kids, working ½ days M-W, will work this Friday.w
- Thom Maughan
 - Out of Office
 - March 29 -31
 - End of April camping
 - Vacation June 28 - July 12
- Mike McCann
 - 200105 - Core Navigation Data - MDUC
 - Continuing to monitor successful execution of nightly EXPD and EMDB loads
 - 901009 - CANON
 - Supporting ECOHAB with loading data into https://stoqs.mbari.org/stoqs_ecohab_april2023
 - Fixed an upstream interpolation/merging LRAUV data problem by using xarray
 - 901910 - Plankton Taxonomic Groups from AUVs
 - Improved profile numbering algorithm by using scipy's find_peaks()
 - Implemented time shifting data for dorado plumbing lags
 - Decreasing Gulper sample durations from 4 to 2 seconds for finer representaion
 - Continuing to get my Notebook and auv-python code to agree with existing proxies
- Rob McEwen
- Paul McGill
 - 901618 - Pelagic-Benthic Coupling
 - Solved leaking problem with SES fluorometer.
 - Worked with Irene H. to reassemble camera and fluorometer onto SES and purge the air from their comp hoses.
 - 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Helped with Trinity flight last Thu at ESB.
 - Trying to improve images taken by hyperspectral camera.
 - 902304 - Piscivore Cam
 - Wrote last part of camera controller code, in testing now.
 - Set up a run-time test with George S. to see how long main battery would last.
 - Overhead
 - Interviewed candidate for Ventana pilot position.
- Tom O'Reilly
 - Role of standards and best practices'*
- Mike Risi
 - 200105 - Core Navigation Data - MDUC
 - Working on single LCM type modifications to navroc framework
 - 600034 - Precision Control Technologies for ROVs and AUVs
 - Changes to mwt-control to accommodate update to MiniROV status topic
 - 701147 - MARS O&M IV
 - Meetings with Dave French to capture MARS operational procedures before his last day
 - Met with Duane Thompson to go over MVC environmental monitoring board
 - 902204 - Scalable Robotics
 - Completed testing and modifications to WaterLinked DVL driver during tank testing
 - Completed RovControl scripting and tested in tank
 - Helped with Sonar logging setup on Ventana
 - Tank testing of CoMPAS sled with rov-mini-intfc changes
 - Out of Office

- Out of office on Fridays
- Paul Roberts
 - 901809 - Deep Sea Bioinspiration
 - EyeRIS (Moore Foundation) project wrap up
 - 901904.99 - Corral Camera System
 - Planning meeting
 - 902001 - Ventata 4k camera
 - Validation of new optical corrector
 - 902004 - Planktivore
 - Planktivore V2 assembly and testing for EcoHAB
 - Planktivore V2 pn detector dataset creation and training models
 - 902204 - Scalable Robotics
 - MiniROV integration
 - 902306 - SINKER
 - LED lighting design
 - Dev board bring-up
 - Out of Office
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- Brent Roman
 - 708165 - MERHAB19:ESP
 - Zoom meeting to discuss particulate residue on inside of Collection Syringe of their 2G ESPs
 - 771131 - Great Lakes PCM/HAB
 - First test deployment of ESP in SeaTrac autonomous boat
 - Coded new set of high level methods to facilitate driving the 3G ESP on surface vessels
 - 901205 - ESP SURF Center
 - Supporting Nadia, Ussler and Preston in their struggle to prep ESPs for ECOHAB
 - Iterated with Ussler on real-time reporting of toxin concentrations derived from SPR results
- Carlos Rueda
- Karen Salamy
 - 300057 - Mooring Maintenance
 - Monitoring the CTD cable issues on M1
 - 902101 - LRAUV Technology Development and Fleet Operations
 - EcoHAB week. Working diligently to get issues and bugs resolved ASAP for the LRAUV team. This project is taking up most of my time this week.
 - Out of Office
 - Now in the office 3 days/week M, T, Th..
- Brian Schlining
 - 500055 - VARS, M3/RS, DSG
 - Working off some [technical debt](#) on the [vampire-squid](#) microservice (MBARI's video asset manager)
 - Iron Mountain video imports
 - Worked with Neil to troubleshoot disk issues on our database server, Perseus
 - 902002 - FathomNet
 - In progress: replacing the default taxonomy provider. Currently the default in FathomNet is MBARI's knowledgebase but we're switching to our [fast worms server](#). Notable changes includes [limiting searchable terms](#) to WoRMS taxa branches that exist as annotations in FathomNet and switching the browsable taxa tree to WoRMS.
 - 902304 - Piscivore Cam

- Working though staging pisicovre videos with ambiguous timestamps to our video asset manager.
- DQ2209 - Ocean AI 2
 - Meeting with NSF project manager to demonstrate MBARI's video annotation and ML tools.
- Overhead
 - Met with Bill Kirkwood and Kakani to discuss hosting a Marine Imaging Workshop in 2024.
- Out of Office
 - Mar 28 - Apr 3 - Out of office
 - May 8 - 16 - Out of office
 - Jul 28 - Aug 6 - Vacation
- Alana Sherman
- George Stern