



Governing Board Meeting 27 May 2016

Pre-Meeting

9:00 am to 9:30 am Coffee and pastries

Call To Order

9:30 am

Introductions

- New Members
- Packets
- Sign In, Update Contact Sheet, Lunch Orders (*Phil's \$10/each*)

Approval of Minutes from December 2, 2015

Director's Report

9:45 am

Jim Harvey

Faculty/Staff Updates

1. Librarian – Katie Lage, Univ of CO Earth Sci Library, Parker on contract until 1 July consulting
2. Marine Operations Manager Brian Ackerman
3. ITech Support – Michael Radojevic
4. Visiting Scientist AY16-17 - Dr. Michael Lee, CSU East Bay
5. Intl Visiting Scholar - Dr. Patrick Gagnon, Benthic Ecologist from Memorial Univ of Newfoundland
6. Visiting Scientist AY17-18 posting extended to 1 Aug 2016, all submissions to date are from outside CSU
7. Visiting Scientist AY 18-19 announcement posted, we will send you a copy, please distribute throughout your campus science depts.
8. New Research Faculty Member – Iliana Ruiz-Cooley
9. SeaGrant Specialist (Center for Aquaculture) – planning in progress and budgeted

Graduate Program Report

- FTE's
- Course Schedule
- Graduates
- Scholarships and Awards

MLML Center for Aquaculture

- ORTU – status
- Planned activities, events, research projects, courses

MLML Open House April 1 – May 1, 2016

- highlights

10:30 am

BREAK

10:45 am

SJSU/CSUMB

Administrative Campus Discussion

12:00 pm

LUNCH – Committee Meetings

12:15 pm

Funding-Budgets

- State
- SJSU Research Foundation
- SJSU Tower Foundation
- SJSU Research Foundation/SJSU Advancement Retreat June 3

Curriculum Committee

- Online course being developed, target launch is Spring 2017
- Presentation by Ivano Aiello
- Weekend courses for undergrads being resurrected, please consider teaching!

50th Anniversary

- Update on planning
- Blogs – visit the 50th Anniv website to read and comment
- VIP Reception 5/5, 3-5pm Invite Sent Out, please RSVP
- Weekend Events – tickets on sale, merchandise site active
- Commemorative Book
- Library Upgrade – please visit crowdfunding page
- Donations

MLML Web and Media

- Web Committee formed to improve MLML's web presence
- Goal is for new Librarian and ITech to build capacity for digital media management (photos, video, graphic designs)
- MLML Film (6 min)

1:45 pm

General/Other Business

Announcements: CSC with Univ of CA Riverside?

Whale Entanglements

2:00 pm

NEW BUSINESS

MLML Governing Board Chair

- James Lindholm is at the end of his term
- Election of new Chair and Vice Chair

Revision of By Laws and Rules of Operation

3:00 – 3:30

ADJOURN



MLML Governing Board Meeting 4 December 2015

MINUTES

Governing Board Members Attendees:

Jim Harvey (MLML, Director)
James Lindholm (CSUMB, MLML Governing Board chair)
Marsha Moroh (CSUMB)
Ivano Aiello (MLML, Chair, Geological Oceanography)
Scott Hamilton (MLML, Ichthyology)
Nick Welschmeyer (MLML, Biological Oceanography)
Manny Gabet (SJSU)
Michael Parrish (SJSU)
Keith Bowman (San Francisco State)
Karina Nielsen (San Francisco State)
Michael Lee (CSU East Bay)
Mathieu Richard (CSU Fresno)
Patrick Kelly (CSU Stanislaus)

Additional Attendees:

Kathleen Donahue (MLML, Assistant to the Director)
Terra Eggink (MLML, Graduate Program Coordinator)
Gitte McDonald (MLML, Vertebrate Ecology)
Tom Connolly (MLML, Physical Oceanography)
Colleen Durkin (MLML, Research Faculty)
Jocelyn Douglas (MLML, Health & Safety Officer)
Jane Schuytema (MLML, SJSU State)
Jeff Arlt (MLML, IT department)
Corey Garza (CSUMB, MLML Visiting Scientist)
Kam Lam (SJSU Research Foundation)
Stephanie Flora (MOBY)
Jackson Winn (MLML Small Boats)

John Douglas (MLML Small Boats)
Jason Adelaars (MOBY, CCWG)
Justin Cordova (MLML student)
Alex Olson (MLML student)

Start time: 9:34am

Minutes: Heather Kramp (MLML, Student Assistant)

James Lindholm:

Motion to approve minutes from previous meeting; minutes approved.

Message from MLML Director:

Thanks to everyone for coming.

Summary of happenings at the lab - Personnel changes

Joan Parker (MLML Librarian) is retiring, the faculty recruitment is underway and candidates have visited MLML, MBARI and SJSU Dr. Tom Connolly is MLML's new physical oceanographer replacing Dr. Erika McPhee-Shaw. He is starting his first semester this fall, 2015 and Dr. Colleen Durkin is a new research faculty member in biological oceanography beginning the fall, 2015. Kathleen Donahue is the new Assistant to the Director and has been at MLML for 6 months now. Terra Eggink is MLML's new Graduate Program Coordinator, at MLML 4 months now. MLML is presently running a search for a new Marine Operations Manager to fill the gap left when the Pt. Sur was retired and the Marine Superintendant and staff were let go. MLML needs an additional permanent position in marine operations to fill in this gap and maintain the marine operations and small boats program. Paul Klepac, MLML's web manager, is retiring. The IT department may go through some restructuring as the IT department before a new individual is hired. Corey Garza, CSUMB, is MLML's current visiting scientist. Michael Lee, from CSU East Bay, will be MLML's Visiting Scientist during AY17-18.

Thanks to Marsha Moroh for her dedication to the Governing Board for the past 18 years.

MLML Graduate Program

Terra Eggink, MLML Graduate Program Coordinator provides comments

Statistics for 2015-2016 AY

There are currently 72 graduate students enrolled at MLML. This number is down from 85-90 graduate students, which, has been the average in the past. This may be attributed to changes in faculty over the past few years with older faculty leaving, not taking on students, and newer faculty joining MLML. Sixteen new students enrolled this AY. Enrollment has been steady over

the past few years. Seven students are graduating this fall. Graduation time at MLML is improving over past years. The average time for graduation is about four years. SJSU accounts for 39% of FTE students. CSUMB accounts for 58% of FTEs. Two current students are enrolled through SFSU. Fall 2014 was the last time a student from another consortium campus enrolled (CSU East Bay). On average, about 100 students apply to the MLML Master's program each year and roughly 25% of those applicants are accepted. MLML is offering nine this semester. Students are also competitive in obtaining funding from scholarships and they are listed in the Governing Board meeting packet.

2014-2015 MLML Annual Report

MLML was required to prepare an annual report per Executive Order 1103 issued by the CSU Chancellor's Office. The Chancellor's Office has been asking questions about multi-campus research groups associated with the CSU, especially those they are not familiar with. MLML produced an 82-page report that covered MLML activities between 2012 and 2015. The report covered MLML governance, the graduate program, accomplishments, finances and included a draft Strategic Plan. The whole report is available on the Governing Board shared drive for members to view. The Chancellor's Office has received and reviewed the report. Feedback to date has asked what MLML's budget is based on. The report includes a draft MLML Strategic Plan that Dr. Harvey has been working on. Though the plan was included in the report, it is still a work in progress and has not been vetted. There may be a review of the program required by the Chancellor's Office every 5 years, which, may or may not include an annual report similar to the one drafted.

MLML Aquaculture Facility update

A number of years ago, Dr. Kenneth Coale (MLML) received a Packard grant to rebuild MLML after the earthquake. Some of those funds were used to build the current Aquaculture Facility where the previous shore lab was located. The vision of the Aquaculture Facility is for it to be used as a facility for the entire CSU, not just MLML - a CSU Center for Aquaculture. The concept for the Aquaculture Center is for its capabilities and mission to broad and incorporate education, research and policy. MLML acquired additional funds from CSU COAST and California Sea Grant to further develop the facility.

In January 2016, representatives from all CSU campuses have been invited to a two day event to discuss supporting this aquaculture facility concept. Day one of the meeting will be with CSU campus representatives only, and day two will include stakeholders, politicians, policy makers, agencies and a variety of people from the Aquaculture industry. The event will focus on discussions between CSU reps, stakeholders, policymakers and industry groups. Potential classes being considered would include, initially, MLML faculty and then CSU faculty curriculum resulting in certification or potentially a MS degree. The research portion would include developing skills and collaborating with industry groups. The policy position would focus on sustainability and best practices, environmental issues, as well as education outreach. This focus will consider marine and freshwater aquaculture, aquaponics, etc.

MLML 2016 Open House

The students have tentatively scheduled the Open House for April 30th and May 1st, 2016. The Open House theme will be MLML's 50th Anniversary.

MLML 50th Anniversary

In 2016 MLML will be 50 years old. A large event is planned for August of 2016. On Friday evening there will be an exclusive party for the Chancellor, Governor, CSU Presidents, MLML Governing Board and potential high level donors. Saturday will have a mini-Open House for alumni, former and current faculty and staff to attend. On Saturday evening there will be a large party in the field at the bottom of the hill. MLML has been producing a 50th Anniversary blog on the MLML website (front page). The weekly blog posts are fun and insightful into the history of the labs. Governing Board members are encouraged to read them.

SJSU-CSUMB discussion

Discussion history between the CSU Chancellor and SJSU and CSUMB Presidents

In fall 2014 CSUMB's President, Eduardo Ochoa, and SJSU's President, Mo Qayoumi, interacted with the CSU Chancellor behind closed doors to discuss MLML. The understanding is that SJSU had concerns about operating costs of MLML and CSUMB would like to utilize MLML facilities. CSUMB President Ochoa declared his desire to take over administration of MLML. [CSUMB1] MLML's operating cost is about \$3.2 million per year. About \$1.6 mil is funded through SJSU and \$1.6 mil comes directly from the CSU. SJSU endures a large financial responsibility to run MLML compared with other consortium campuses.

Dean Parrish confirmed that funding for SJSU's new Science Building has been completely decoupled from the MLML administrative campus discussion.

CSUMB has a large number of students enrolled at MLML and they contribute \$50k per year, although between 1995 and 2012 they contributed \$100k per year. After the Chancellor and the Presidents' meeting, the Chancellor asked the Presidents to meet with the Provosts, Deans and Financial Officers of each campus, the Director of MLML, and others to come up with a plan for the future of MLML. Jim Harvey asked if the consortium would be involved and the answer back was no. The expectation was to develop a report for the Chancellor's Office, which, was never completed. A financial report was generated, though, on the historical funding of MLML per CSUMB's request.

In summer 2015, the Presidents met again with the Chancellor behind closed doors. SJSU President Qayoumi announced his resignation. It is believed a decision was made that MLML would administratively move to CSUMB in that meeting; however, that is unclear now. Discussion with the SJSU Provost is that any move or next steps are now on hold, perhaps indefinitely, until the SJSU President position is resolved. There is a general consensus that the

new SJSU President will not be addressing this issue for some time as they have many other issues at SJSU to resolve first.

Congressman Sam Farr has told the Chancellor and publicly declared that he wants MLML to move to CSUMB before he leaves office. Dean Moroh stated that President Ochoa is ready with the strong case for the benefits of the geographic location of CSUMB to MLML and has regularly stated that Marine Science is the start of CSUMB. Further, CSUMB has outgrown its Marine Science space and will need berth for a research vessel.

Dr. Harvey described how this issue makes strategic planning a challenge given he cannot think ahead without knowing who the parent campus will be and what resources are available or could be available depending on which campus will administer MLML..

MLML and Governing Board involvement in an administrative change decision

The MLML Governing Board has the authority per the MLML Rules of Operation (1st paragraph) to make recommendations to the Chancellor's Office for changing administration of MLML to a different CSU campus. However, the Governing Board has not been directly included in discussions of moving MLML administratively. *Note: SJSU has always been the operating administrator of MLML since its foundation.* Dr. Harvey finds it frustrating that all of the consortium campuses are not part of the discussion about what happens administratively with CSUMB. SJSU finds it frustrating as well but believes any future decision regarding MLML is likely to happen once the SJSU presidency has been resolved. There is a general dismay that the MLML Governing Board authority and Rules of Operation have been ignored and usurped by the higher authority of the Chancellor and Presidents. Jim Harvey reported that he asked if President Qayoumi knew whether the other consortium campuses should be included in the discussion and the President responded no. President Ochoa seems to believe the process is moving along. CSUMB has outgrown its campus resources and would benefit from use of MLML. The MLML Faculty, in general, is all on board with an administrative move to CSUMB.

There needs to be a process that involves all stakeholders, not just the Presidents but the Department Chairs and Deans as well. There needs to be a statement about the pros and cons and a funding model needs to be rendered and considered. Discussion proceeded about a letter that should be sent to serve as a reminder to the Chancellor that there are seven campuses represented by a Governing Board at MLML who are all stakeholders in the decisions concerning MLML's parent campus and are granted authority to vote on a decision according to the MLML By laws and Rules of Operation. The letter should request that there be an informed plan that is advantageous to MLML, open exploration of the issues, and that the process be open and transparent.

Jim requested that all Governing Board members return to their CSU campus and be a conduit by sharing this information because that is the only way a consortium like this works.

Motion: The Governing Board will draft a letter to the Chancellor requesting a timely resolution. The letter should articulate a desire for involvement in the process per the MLML By Laws and Rules of Operation that gives the MLML Governing Board authority to vote on a matter such as this and for more information. The letter will request that there be an open and transparent process to make the decision, reiterate that all seven campuses should be involved, and to express general feelings on the matter. In addition, the letter will include MLML faculty's general attitude and open interest on moving administratively to CSUMB depending on the terms and conditions. Jim Harvey, Ivano Aiello, and James Lindholm will meet to discuss the letter and then send it to the Board for review.

2014-2015 MLML budget review

The MLML budget has about \$3.5 million from the State. It includes a budget from the state provided through SJSU and an indirect budget from grants and contracts brought in by MLML to SJSU and then a percentage is returned to MLML.

State budget:

A large portion of this budget goes toward Faculty and staff salaries and benefits. A little money funds the visiting scientist. Each consortium member pays in \$4,400 which goes to funding the visiting scientist. CSUMB pays \$50,000 for additional use of MLML. This budget also encompasses faculty start ups, administration, instructional supplies, science diving program, health and safety, facilities, IT services, marine operations, utilities, and library services. Only half the library costs are represented here. MBARI funds the additional half (approximately \$100,000). Additional projects funded by this budget include remodeling of the "Think Tank" room at MLML into a smart classroom. For the 50th Anniversary, MLML is also producing a book which will utilize some of these funds.

Indirect budget from grants and activity:

All grant money awarded to MLML goes through the SJSU Research Foundation. MLML produces about one-third of the contracts and grant activity at SJSU (\$15-17 million). This money generates about \$500,000-600,000 in funds returned to MLML annually. This budget mainly funds salaries, including some IT department and facilities employees, at MLML as well as library, IT, and diving services and lab maintenance. In addition, 10% is returned to PIs, 10% is saved in a reserve to weather financially difficult years, and 10% is used to pay back a SJSU Research Foundation debt for the purchasing of some MLML properties.

Break for lunch: 12:10pm

Return: 12:45pm

Curriculum

Update on MLML's curriculum plan

MLML has been attempting to develop an integrated oceanography class with faculty from different oceanography labs and analytical skills. The class would ideally be a year long course

covering fall and spring semester. MLML has been developing this idea for a few years now; however, it has not reached fruition. Functionally, dividing course credit between faculty and other administrative issues have not been resolved. MLML is still pressing forward with this idea but it is back in initial development.

MLML courses on consortium campuses

Distance has always been a factor impacting consortium campus students' ability to attend MLML classes. To circumnavigate distance issues, MLML is considering online classes. MLML would like to know if there is interest in online classes from MLML and what is needed or what process is the best for setting up online classes. CSUMB and SJSU have well developed online learning components/classes that MLML could utilize.

Meeting adjourned: 1:38pm



Spring 2016 Graduate Program Report

Spring 2016 FTES report

<i>Campus</i>	Total Students by Level			Total Units by Level		FTES	
	<i>Total (U)</i>	<i>Total (G)</i>	<i>Total Enroll</i>	<i>Total (U)</i>	<i>Total (G)</i>	<i>Total FTES</i>	<i>Campus FTE %</i>
East Bay	0	0	0	0	0	0.00	0.00%
Fresno	0	0	0	0	0	0.00	0.00%
Monterey	0	41	41	0	200	16.67	55.31%
Sacramento	0	0	0	0	0	0.00	0.00%
San Francisco	0	2	2	0	8	0.67	2.21%
San Jose	3	28	31	12	144	12.80	42.48%
Stanislaus	0	0	0	0	0	0.00	0.00%
TOTALS	3	71	74	12	352	30.13	

U=Undergraduate (including post baccalaureates); G=Graduate

MLML graduate students enrolled in zero-unit course are included in total enrollment and FTES

Fall 2015 FTES by campus

<i>Campus</i>	Total Students by Level			Total Units by Level		FTES	
	<i>Total (U)</i>	<i>Total (G)</i>	<i>Total Enroll</i>	<i>Total (U)</i>	<i>Total (G)</i>	<i>Total FTES</i>	<i>Campus FTE %</i>
East Bay	0	0	0	0	0	0.00	0.00%
Fresno	0	0	0	0	0	0.00	0.00%
Monterey	3	40	43	16	244	21.40	58.31%
Sacramento	0	0	0	0	0	0.00	0.00%
San Francisco	0	3	3	0	11	0.92	2.50%
San Jose	4	30	34	32	147	14.38	39.19%
Stanislaus	0	0	0	0	0	0.00	0.00%
TOTALS	7	73	80	48	402	36.70	

U=Undergraduate (including post baccalaureates); G=Graduate

MLML graduate students enrolled in zero-unit course are included in total enrollment and FTES

Spring 2015 FTES by campus

<i>Campus</i>	Total Students by Level			Total Units by Level		FTES	
	<i>Total (U)</i>	<i>Total (G)</i>	<i>Total Enroll</i>	<i>Total (U)</i>	<i>Total (G)</i>	<i>Total FTES</i>	<i>Campus FTE %</i>
East Bay	0	0	0	0	0	0.00	0.00%
Fresno	0	0	0	0	0	0.00	0.00%
Monterey	6	37	43	28	214	19.70	60.62%
Sacramento	0	0	0	0	0	0.00	0.00%
San Francisco	1	4	5	4	22	2.10	6.46%
San Jose	2	29	31	8	122	10.70	32.92%
Stanislaus	0	0	0	0	0	0.00	0.00%
TOTALS	9	70	79	40	358	32.50	

U=Undergraduate (including post baccalaureates); G=Graduate

MLML graduate students enrolled in zero-unit course are included in total enrollment and FTES

Spring 2016 Class Schedule

Course #	Course Name	Units	Instructor(s)	Day	Time
MS 143	Chemical Oceanography	4	Dr. Kenneth Coale	M	9-5
MS 144	Biological Oceanography	4	Dr. Nick Welschmeyer	W	9-5
MS 204	Sampling and Experimental Design	4	Drs. McDonald/Hamilton	Th	9-5
MS 212	Advanced Topics in Marine Vertebrates – Physiological Ecology of Marine Animals	4	Dr. Gitte McDonald	F	9-5
MS 233	Advanced Topics in Marine Ecology – Aquaculture	4	Dr. Michael Graham	M	9-5
MS 263	Data Analysis Techniques in Marine Science	4	Dr. Tom Connolly	Th	9-5
MS 273	Marine Environmental Studies of the Gulf of California	4	Drs. Hamilton/Steller	F	9-5
MS 285-1	Graduate Seminar in Marine Science – Climate Change	4	Dr. Ivano Aiello	W	9-12
MS 285	Graduate Seminar in Marine Science – Aquaculture	2	Dr. Michael Graham	M	9-12
MS 298	Research in Marine Science	1-4	Faculty	Arr.	Arr
MS 299	Thesis	4	Faculty	Arr.	Arr

Spring 2016 Graduates

April Woods

Cellular stress physiology in the diatom genus Pseudo-nitzschia and its role in Domoic Acid production

Stephen Loiacono

Effects of Substrate Warming on Sessile Marine Invertebrate Communities in Monterey Bay, California

Pamela Neeb Wade

Effects of Non-Native Species on Two Life Stages of the Olympia Oyster, Ostrea lurida, in the Elkhorn Slough Estuary

Ryan Fields

Spatial and Temporal Variation in Rosy Rockfish (Sebastes rosaceus) Life History Traits

Emily Donham

Effects of Global Change on Algal Biomineralization and Benthic Community Interaction on California's Temperate Rocky Reefs

Vera Lawson

Abundance and provenance of sand at Bering Sea site U1343: High resolution records from a glacial/interglacial cycle in the mid-Pleistocene

Fall 2015 Graduates

Clint Collins

Natural and experimental disturbance in the Ross Sea, Antarctica: Iceberg scours and their effects on benthic communities

Sara Worden

Effects of small-scale substrate complexity and heterogeneity on rocky intertidal species interactions

Hamilton (Will) Fennie

The effects of ocean acidification on the behavior and physiology of juvenile rockfish

Gabriela Navas

Morphology, age distribution, and genetic differentiation of the Pacific Geoduck, Panopea generosa, in California

Melinda Tanner

A sedimentologic analysis of the siliciclastic fraction in Pliocene core sediments from Bowers Ridge, Bering Sea (IODP Exp. 323)

Kristen Robinson

Cryptofaunal assemblages of Catalina Island rhodolith beds

AY 2015-16 Graduate Student Scholarships & Awards

John H. Martin Scholarship

Heather Fulton-Bennett

Xiphias Martin Scholarship

Maureen (Mo) Wise

James Nybakken Scholarship

Pamela Neeb Wade

Sonia Linnik Hamilton Marine Science Scholarship

Jen Chiu

Signe Lundstrum Memorial Scholarship

Steven Perez-Cunningham

Loury Family Marine Science Outreach Scholarship

Laurel Lam

Simpkins Family Marine Science Scholarships

Stephanie Schneider

Devona Yates

Maureen (Mo) Wise

Scott Miller

MLML Scholar Awards

Stephen Pang

Mason Cole

MLML Wave Awards

June Shrestha

Bonnie Brown

Holly Chiswell

Stephan Bitterwolf

Jessica Jang

Emily Schmeltzer

Kristin Walovich

Dr. Earl and Ethel M. Myers Oceanographic and Marine Biology Trust Grants

Stephan Bitterwolf

Mason Cole

Lindsay Cooper

Cody Dawson

Heather Fulton-Bennett

Jinchen (Martin) Guo

Jessica Jang

Alex Olson

Angela Zepp

5/25/2016

MLML State Budget FY 15/16 & FY 16/17 Proposed

		<i>FY 15/16</i>	<i>Actuals as of</i>	<i>Projected</i>	<i>FY 16/17</i>
		<i>Budget</i>	<i>3/31/2016</i>	<i>Year End</i>	<i>Proposed Budget</i>
REVENUE					
	Salary	1,658,080	1,658,080	1,662,580	1,745,218
	Benefits	770,000	592,022	767,554	770,000
	⁹ OE&E	407,648	407,648	407,648	407,648
	Utilities	265,400	165,451	265,400	265,400
	² Salary Recovery / Reimbursement	25,374	13,022	24,753	20,000
	Visiting Scientist Support	21,425	-	21,425	21,425
	Other Reimbursement/Support	12,300	3,095	3,095	5,000
	CSUMB Contribution	50,000	-	50,000	50,000
	Prior Year Balance Forward	216,043	216,043	216,043	117,959
	¹ Roll-Forward Encumbrances	-	89,086	89,086	-
TOTAL REVENUE		\$ 3,426,270	\$ 3,144,447	\$ 3,507,584	\$ 3,402,650
SALARIES (Salary \$)					
	³ Faculty	806,325	594,945	765,540	823,836
	⁴ Staff	820,175	590,540	794,379	876,156
	⁵ Temporary Faculty	27,322	28,867	28,867	27,000
SALARIES (OE&E)					
	⁶ Visiting Scientist	30,000	22,535	30,050	35,010
	⁷ Graduate Assistants	63,700	44,991	65,073	63,700
	⁸ Student Assistants	105,000	85,042	118,732	118,000
BENEFITS		770,000	594,468	770,000	770,000
TOTAL SALARIES & BENEFITS		\$ 2,622,522	\$ 1,961,388	\$ 2,572,641	\$ 2,713,702
OPERATING EXPENSES					
<i>ADMINISTRATION</i>					
	Taxes / Liability Premiums	1,400	773	1,273	1,400
	Office Supplies	9,350	1,793	3,036	4,500
	Copiers & Maintenance	4,840	5,628	6,228	6,500
	Furniture/Equipment	2,000	3,405	4,482	2,000
	Postage / Postage Meter Rental	2,700	511	2,211	2,700
	Telecommunications	4,800	5,000	5,000	5,000
	Memberships	4,600	5,400	5,400	5,400
	Faculty / Staff Recruitment	3,000	3,593	3,593	3,000
	Startup Funds	32,534	5,851	6,501	26,033
	Travel / Training	4,000	2,884	3,105	4,000
	Miscellaneous	1,500	656	794	1,500
	Reimbursable Grant/Award Exp.		6,076	11,821	-
	Roll-Forward Expenses	-	68,970	68,970	-
	TOTAL ADMINISTRATIVE EXPENSES	\$ 70,724	\$ 110,540	\$ 122,414	\$ 62,033
<i>INSTRUCTIONAL SUPPLIES</i>					
	Equipment/Services	15,000	9,325	14,049	15,000
	Aquarium Room Refresh	1,000	261	424	1,000
	Class Materials & Supplies	8,000	3,258	9,634	8,000
	Baja Course	5,000	1,757	5,000	5,000
	Oceanographic Instrumentation	3,000	297	297	3,000
	Molecular Ecology	-	212	212	-
	Miscellaneous	1,000	202	269	1,000
	Roll-Forward Expenses	-	9,570	9,570	-
	TOTAL INSTRUCTIONAL SUPPLIES	\$ 33,000	\$ 24,882	\$ 39,455	\$ 33,000

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	<i><u>FY 15/16</u></i>	<i><u>Actuals as of</u></i>	<i><u>Projected</u></i>	<i><u>FY 16/17</u></i>
	<i><u>Budget</u></i>	<i><u>3/31/2016</u></i>	<i><u>Year End</u></i>	<i><u>Proposed</u></i>
		¹⁰		<i><u>Budget</u></i>
<i>MARINE SCIENCE DIVING</i>				
Supplies & Repairs	10,000	8,852	13,046	10,000
TOTAL MAR. SCI. DIVING EXPENSES	\$ 10,000	\$ 8,852	\$ 13,046	\$ 10,000
<i>ENVIRONMENTAL HEALTH & SAFETY</i>				
Supplies & Permitting	5,500	4,053	6,257	6,500
Museum	1,000	1,181	2,257	1,500
Roll-Forward Expenses	-	125	125	- ¹¹
TOTAL EHS EXPENSES	\$ 6,500	\$ 5,359	\$ 8,639	\$ 8,000
<i>FACILITIES</i>				
Janitorial Services & Supplies	33,000	23,295	34,805	33,425
Landscaping / Restoration	5,040	2,975	5,040	5,040
Vehicle Maintenance & Repair	7,000	5,602	8,915	7,000
Gasoline Charges	12,000	3,573	7,861	9,000
R/V Sheila B - Fuel & Upkeep	3,000	1,312	1,783	3,000
Proposed Facility Projects	53,400	34,469	42,897	42,750
Scheduled Maintenance & Repair	15,000	8,681	11,640	15,000
General Supplies & Repairs	29,750	21,483	33,739	29,750
Seawater System	21,000	31,735	32,783	21,000
Roll-Forward Expenses		61,683 ¹¹	61,683	- ¹¹
TOTAL FACILITIES EXPENSES	\$ 179,190	\$ 194,808	\$ 241,146	\$ 165,965
<i>UTILITIES</i>				
Electricity	204,400	153,291	204,400	204,400
Gas	33,540	25,152	33,540	33,540
Water	6,490	4,865	6,490	6,490
Sewage	6,040	4,530	6,040	6,040
Trash	14,930	11,195	14,930	14,930
TOTAL UTILITY EXPENSES	\$ 265,400	\$ 199,034	\$ 265,400	\$ 265,400
<i>LIBRARY</i>				
Books/ILL/Supplies	7,000	24,766	29,239	7,000
Periodicals	92,220	67,470	70,020	92,220
TOTAL LIBRARY EXPENSES	\$ 99,220	\$ 92,236	\$ 99,259	\$ 99,220
<i>NETWORK</i>				
Hardware	17,000	8,287	19,787	17,000
Software	16,300	8,220	10,220	16,300
Roll-Forward Expenses	-	- ¹¹	-	- ¹¹
TOTAL NETWORK EXPENSES	\$ 33,300	\$ 16,507	\$ 30,007	\$ 33,300
TOTAL OPERATING EXPENSES	\$ 697,334	\$ 650,912	\$ 816,984	\$ 675,418
TOTAL EXPENSES	3,319,856	2,612,300	3,389,625	3,389,120
TOTAL REVENUE	3,426,270	3,144,447	3,507,584	3,402,650
CASH FLOW BALANCE	106,414	532,147	117,959	13,530
ADJUSTED BALANCE	\$ 106,414	\$ 532,147¹³	\$ 117,959	\$ 13,530

Notes:

- ¹ Open encumbrances from previous fiscal year are rolled forward into the next year's budget
- ² Faculty buyout
- ³ Faculty = 9
- ⁴ Staff = 8
- ⁵ Temporary Faculty: FY15/16: Fall = 2, Spring = 0
- ⁶ OE&E Salaries - MLML pays salaries and all benefits
- ⁷ Graduate Assistants: FY14/15: Fall = 6, Spring = 6; FY 15/16: Fall = 6
- ⁸ Student Assistants: FY 15/16: Summer = 7, Fall = 11, Spring = 11
- ⁹ Includes State Support OE&E budget and \$50K from Provost
- ¹⁰ Actual expenses only, no blanket encumbrances
- ¹¹ Expenses on rolled encumbrances from the previous fiscal year

FY 15/16 Projects		FY 16/17 Projects	
<u>Main Lab</u>		<u>Main Lab</u>	
Security Camera/DVR System	6,300	Dry Classroom Part II: Front Area	
50th Anniversary project	10,000	Seminar room light modifications	7,500
Seminar room light modifications		Seminar lights for video	
Seminar lights for video		Seminar Room Kitchen Remodel	2,000
Admin remodel		Think Tank Dry Erase Paint	250
Lab floors	1,600		
Fence on North side of lab			
Dry Classroom remodel	20,000	<u>Shore Lab</u>	
Replace wood deck?		Seawater System: xtra pump, filter	30,000
Replace wood on walkway?	1,000	Shore Lab Power Capacity	
Path to Rubis, with lighting	1,500	Shore Lab Add-On	
LED lighting		Shore Lab: Lab Station Island	3,000
Air handlers & Exhaust Fans /			
Frequency Drives	10,000		
Camper shell for new Dive Truck	3,000		
TOTAL	\$ 53,400	TOTAL	\$ 42,750

MLML Operating Budget: SJSU Research Foundation

Includes MLML Operating, Norte, Del Mar, Sandholdt, Firehouse and Shore Lab

REVENUE	FY 2015-2016	FY 2016-2017
	ACTUALS PROJECTED	ESTIMATED
Other Income	1,075	10,000
Rental Income (Del Mar, Sandholdt Center)	125,102	125,000
70% F & A Return EOY FY14-15	269,218	-
70% F&A Return FY15-16	244,009	128,336
Foundation Admin and Facility Support	190,000	190,000
Total Projected Revenue	829,404	453,336

EXPENSES	FY 2015-2016	FY 2016-2017
	ACTUALS PROJECTED	ESTIMATED
Total Salaries, Wages and Benefits	466,922	450,000
Total Administrative Costs	25,220	10,000
Total Information Technology	36,000	25,000
Total Supplies and Equipment	10,000	10,000
Total Services & Facility Costs	87,410	90,000
Total Diving Costs	1,000	2,000
Total Maintenance and Repairs	50,000	30,000
Small Boat Support	15,000	15,000
Total Projected Operating Costs	691,552	632,000
End of Year Balance	137,852	(103,664)

RESERVE	FY 2015-2016	FY 2016-2017
	ACTUALS PROJECTED	ESTIMATED
Beginning Balance Reserve Account	537,785	367,791
WPCL Instrument	(257,000)	-
Transfer to Reserve Acct from F&A	87,006	12,834
EOY Balance	367,791	380,625

REFINANCING ACCOUNT	FY 2015-2016	FY 2015-16
	ACTUALS PROJECTED	ESTIMATED
Beginning Balance Reserve Account	(3,030,238)	(2,943,232)
Transfer to Reserve Acct from F&A	87,006	12,800
EOY Balance	(2,943,232)	(2,930,432)

THE CALIFORNIA STATE UNIVERSITY
BYLAWS OF THE MOSS LANDING MARINE LABORATORIES
CONSORTIUM

ARTICLE I NAME AND MISSION

1. This Consortiumoperated marine science facility shall be known as Moss Landing Marine Laboratories.

2. The mission of Moss Landing Marine Laboratories (referred to below as MLML) is to provide a center for teaching and research in Marine Sciences for students of the consortium campuses, with emphasis on graduate education, in the furtherance of the goals and functions of higher education. MLML is a part of the California State University and, as a functional extension of each of the participating campuses, therefore shares responsibility for the accomplishment of the CSU mission.

ARTICLE II MEMBERSHIP

1. The MLML Consortium membership includes the following campuses of the California State University: Fresno, Hayward, Monterey Bay, Sacramento, San Francisco, San Jose, and Stanislaus. The purpose of the MLML Consortium is to actively support excellence in marine science research and education at MLML.

2. Any campus of the California State University is eligible for membership in the Consortium. Upon written application to the MLML Governing Board, a campus becomes a member of the Consortium when that application is approved by the Governing Board and Presidents of the member campuses.

3. In special cases, the MLML Governing Board may also recommend to the

Consortium Presidents formal affiliations with institutions outside the CSU for the purpose of promoting the mission of MLML. Examples may include PhD granting universities, research institutions, or other non-commercial collaborative groups, government agencies, or consortia with shared goals and purposes.

4. For administrative purposes, one of the member campuses shall be designated by the Chancellor as the Operating Institution of MLML for the Consortium. MLML shall be considered an “equivalent administrative unit”, as stated in the current CFA contract, with regard to faculty.

ARTICLE III GOVERNING BOARD AND OFFICERS

1. The Governing Board has the primary responsibility for accomplishing the purpose (Article I, 2. above) of the Consortium. The Governing Board of the MLML Consortium functions as an advisory and approval body relative to academic and administrative matters of the MLML, and a supporting and implementation body in matters concerning relationships and policies among the MLML, Consortium campuses and the California State University.

2. The presidents of the member campuses shall each appoint two members and an appropriate number of alternates to serve on the MLML Governing Board. One shall be a scientist with interests and expertise in marine science, and the other shall be an administrator. In the case of the Operating Institution, faculty representatives shall not be from the MLML, and the administrator shall be the Academic Officer to whom the MLML Director reports on matters pertaining to the MLML. The President of the Operating Institution shall also appoint a member from the Foundation at the Operating Institution. Each of the appointees shall have alternates, chosen with the same stipulation

as to occupation. Under special circumstances, alternates may be appointed for specific meetings.

3. The participating institutions appointing members to the Board shall make the appointments for terms of three years, renewable, to encourage continuity and stability.

4. Alternate members are permitted and encouraged to attend any meeting of the Board and to be heard, but may vote only in the absence of regular members.

5. To provide a broader perspective, the Governing Board shall also include one member with expertise in marine science who is not affiliated with the CSU. This member will be nominated by the MLML faculty and approved by the Board of Governors.

6. The Director of Moss Landing Marine Laboratories shall be a member of the Governing Board ex officio.

7. The regular faculty at MLML shall elect two MLML faculty members to serve on the Board. These members shall not participate directly in Board deliberations on MLML confidential personnel matters. Under special circumstances, alternates may be elected by the MLML faculty for specific meetings.

8. The Associated Students of MLML shall elect a student member to serve on the Board. This member shall not participate directly in Board deliberations on MLML confidential personnel matters. Under special circumstances, an alternate may be elected by the Students.

9. The MLML Governing Board shall have a Chair who shall be selected at a Spring

meeting of the Board to serve a term of two years which begins at the conclusion of that meeting and ends at the conclusion of the Spring meeting two years later. The Chair of the Board shall be elected by a majority vote of the Board. The Governing Board shall have a ViceChair who is elected at the same time for the same term as the Chair. The Director of MLML shall serve as Executive Secretary of the Board. As such she/he will, in consultation with the Chair of the Board, be responsible for the preparation of the agenda and the publishing of minutes and formal notices of meetings. The Chair of the Board shall forward to the Consortium Presidents the minutes of all Board meetings and, in a cover memorandum, shall call their attention to items (e.g., resolutions) of particular interest.

ARTICLE IV MEETINGS

1. Meetings of the MLML Governing Board shall be called by the Chair. There will be at least one meeting of the Board per academic year, which shall ordinarily take place in the spring semester. At the annual spring meeting, the Board may choose to call an additional meeting for the following fall semester. In preparation for the annual meeting, the Chair shall ascertain from each president the current Board membership. Additional meetings of the Board shall be convened within 60 days following a request by representatives of two or more participating campuses or by the Executive Committee.
2. Each spring, at the annual meeting of the Board, the Director of MLML shall give a report on the state of the Laboratories. This report will include a summary of the MLML budget.
3. A simple majority of the voting members of the Board shall constitute a quorum. In the event a meeting is not attended by a quorum, the members attending may resolve themselves into a committee to consider the agenda of the meeting for later referral and

comment to the Board as a whole.

4. Governing Board resolutions requiring the attention of the Chancellor's Office of the California State University shall be forwarded by the Chair via the President of the Operating Institution.

5. A collection of all significant resolutions of the Board shall be maintained by the executive secretary and shall be distributed periodically to the Board.

6. Robert's Rules of Order will apply in all Board meeting matters not addressed above.

ARTICLE V COMMITTEES

1. The Chair of the Board, with the concurrence of the Executive Committee, shall appoint all committee members and may designate the Chairs with the exception of the Executive Committee (membership specified below).

2. The Executive Committee of the Governing Board shall consist of the Chair, ViceChair, the immediate past Chair, the Director of MLML, and the Academic Officer to whom the Director reports. The Chair of the Governing Board shall be the Chair of this Committee. The Executive Committee is empowered to set interim policy as required. Actions of the Executive Committee may be undertaken through polling of its members. All actions of the Executive Committee shall be reported to and be subject to review by the whole Board at the next Board meeting. The Executive Committee will meet during the Governing Board Meetings, and will meet in the fall (usually October).

3. There shall be a Nominating Committee, responsible for providing at least one nominee for each elective office and ensuring that each such nominee agrees to accept

the office if elected.

4. There shall be a Curriculum Committee, responsible for establishing and reviewing courses and course programs with appropriate consultation with home campuses. The Curriculum Committee will have at least one representative from each consortium institution and two representatives from the faculty or administration at Moss Landing Marine Laboratories.

5. Such other committees as may be desirable may be created by action of the Chair of the Board or the Board.

ARTICLE VI RULES OF OPERATION OF THE MLML

1. Rules of Operation of the MLML, adopted by the Governing Board in conformity with these bylaws, shall be maintained by the Board in a separate document.

ARTICLE VII AMENDMENTS TO THE BYLAWS

1. The Bylaws of the MLML Governing Board may be amended after the introduction of an amendment to the Board as a whole and its subsequent referral for consideration and recommendation by the Executive Committee. Upon its acceptance by a majority of the entire membership of the Board, the amendment is adopted.

ARTICLE VIII MLML STUDENT ORGANIZATION

1. The organization known as "The Associated Students of Moss Landing Marine Laboratories" shall be the recognized political and social representative of the students attending Moss Landing Marine Laboratories. This organization is recognized on a level equal to that of the Associated Students organizations at all of the Consortium campuses. A current copy of the organization's constitution shall be kept on file in the Office of the

Director of MLML.

2. Student fees paid to the Associated Student Organizations at students' home campuses shall be returned to the Associated Students of MLML for use in supporting MLML student body activities.

ARTICLE IX - ADMINISTRATIVE ECONOMY

1. To avoid multiple and potentially conflicting administrative requirements, Consortium Campuses shall adopt administrative policies developed by MLML and approved by the Governing Board. Such administrative policy may include animal care protocols, degree programs, curriculum, admission and graduation requirements, safety protocols (e.g. state vehicles, small boats, research diving, chemical safety, etc.), insurance and liability, and other policy matters where the requirements at the Consortium Campuses may differ.

MOSS LANDING MARINE LABORATORIES RULES OF OPERATION

1. Designation of the Operating Institution.

The Moss Landing Marine Laboratories (MLML) Governing Board shall have the authority to recommend to the Chancellor a change in the choice of the Operating Institution for the Laboratories. The request for action leading to the recommendation may arise at the pleasure of the Board or the President of any one of the participating campuses, including the one currently operating the Laboratories.

2. The Director of the Moss Landing Marine Laboratories.

2.1. The Director of MLML shall be appointed as a CSU Management Personnel Plan (MPP) employee by the President of the Operating Institution. The appointment shall be for a term of four years and is renewable. If the Director is not a CSU or MLML faculty member at the time of appointment but desires to be so, he/she shall become a faculty member with retreat rights negotiated with the President of one of the Consortium Campuses following an evaluation and recommendation by that Campus.

2.2. The Governing Board, , shall review the performance of the Director and, through its Chair, forward its recommendations to the President of the Operating Institution no later than the middle of the fourth year of the Director's term of office, and every fourth year thereafter. The MLML RTP Committee shall administer the Director's Review and submit their confidential report to the Governing Board Executive Committee for review. In addition, the President of any one of the campuses of the MLML Consortium may request a review of the Director by the Board at any time. The review process will request and incorporate comments from faculty, staff and students at MLML.

2.2. The Governing Board, employing the MLML RTP Committee and Governing Board Executive Committee (minus MLML Director), shall review the performance of the Director and, through its Chair, forward its recommendations to the President of the Operating Institution no later than the middle of the fourth year of the Director's term of office, and every fourth year thereafter. The Chair shall also provide a verbal summary of the review for the Governing Board. In addition, the President of any one of the campuses of the MLML Consortium may request a review of the Director by the Board at any time. The review process will request and incorporate comments from faculty, staff and students at MLML.

2.2. The Governing Board, employing the MLML RTP Committee and Governing Board Executive Committee (minus MLML Director), shall review the performance of the Director and, through its Chair, forward its recommendations to the President of the Operating Institution no later than the middle of the fourth year of the Director's term of office, and every fourth year thereafter. The Chair shall also provide a verbal summary of the review for the Governing Board. In addition, the President of any one of the campuses of the MLML Consortium may request a review of the Director by the Board at any time. The review process will request and incorporate comments from faculty, staff and students at MLML.

2.3 When the position of Director is open, an appropriate search for the new Director will be conducted by a search committee appointed by the Chair of the Board in consultation with the Executive Committee and the President of the Operating Institution. The composition of this committee must have the approval of the Governing Board, and shall include two tenured members of the MLML faculty, elected by the MLML faculty. This committee shall report to the Governing Board via the Chair of the Board. The Chair of the Board shall forward the names and evaluated dossiers of the best candidates selected and approved by the Search Committee to the President of the Operating Institution. After consultation with the Presidents of the other Consortium campuses, the President of the Operating Institution will make the appointment decision.

- 2.4. If an Acting (Interim) Director is necessary, the regular MLML faculty, in consultation with the Executive Committee, will nominate candidates. Nominees and supporting documents will be forwarded via the Operating Campus Provost to the President who will make the appointment decision. Unlike the Director position, the Acting Director position does not include appointment to a regular MLML faculty or to a Consortium Campus position.
- 2.5. **As an equivalent administrative unit of the Operating Institution, MLML shall follow the appropriate Operating Institution procedures for the nomination by the faculty of a Chair for the unit.**

3. The Faculty at the Moss Landing Marine Laboratories.

3.1 Appointments to the faculty at the Moss Landing Marine Laboratories include:

3.1.1. A faculty member may be appointed to a tenure-track or regular position at MLML. Such a position is funded from the MLML allocation assigned to the Operating Institution, and the faculty member will have retreat rights to a department within the appropriate discipline on a Consortium Campus after an evaluation and recommendation by that Campus.

3.1.2. A faculty member may be appointed to a temporary position (full-time or part-time) at MLML.

3.2 Procedure for appointments to regular positions (3.1.1 above).

3.2.1 The Director, in consultation with the regular faculty assigned to MLML, shall determine the nature and justification for positions to be filled. This information shall be provided to the members of the Governing Board for their review and recommendations to the Executive Committee.

3.2.2 The Governing Board Executive Committee shall review the Director's and the Board's recommendations. If the Committee's action is favorable, it shall determine if a Consortium campus other than the Operating Institution desires to serve as the home campus for the position to be filled. If a Consortium Campus so desires, then permission to recruit will be requested from the home campus or the Operating Institution (if different from the home campus).

3.2.3. Approved searches will be conducted using the home campus' recruitment and hiring procedures. However, the search committee will be composed of MLML tenured and/or tenure-track faculty. An example of the procedure currently in effect at the Operating Institution is given in Appendix A.

3.3. Procedures for appointments to new temporary positions (3.1.2. above).

3.3.1. The Director, in consultation with the full- and part-time regular (tenure-track) faculty assigned to MLML shall determine the nature of positions to be filled through temporary assignments.

3.3.2. The Director shall formally announce available full-time temporary positions to all Board members, to the Science Deans of the Consortium, and to appropriate institutions outside the Consortium. Full-time temporary positions shall only be filled following a national search.

3.3.3. Full-time temporary candidates shall be reviewed by the Director and regular faculty assigned to MLML who will recommend the best qualified candidate with successive priorities, if these are necessary.

3.3.4. The Director shall offer the full-time temporary position to best qualified candidate and, as necessary, to approved candidates in priority of recommendation.

3.3.5. The request for appointment of full-time temporary faculty, together with supporting papers and recommendations, shall be forwarded by the Director to the Operating Institution in accordance with its procedures.

3.3.6. Faculty appointed to full-time temporary positions may be considered for regular appointments only through competition for an announced position as outlined in Section 3.2.

3.3.7. Part-time temporary assignments may be filled from a pool maintained by the Director, and selected in consultation with the MLML regular faculty.

3.4. Procedures for Continuing Temporary Appointments

3.4.1 All continuing appointments, both full-time temporary and part-time temporary, must conform to the current bargaining unit/CSU Agreement.

3.5. Term of regular faculty assigned to Moss Landing Marine Laboratories.

3.5.1. All assignments of full-time regular faculty to Moss Landing Marine Laboratories shall be considered permanent. This arrangement would be altered by (a) failure to be tenured, (b) original written agreement specifying time limit, or (c) request for reassignment to home campus initiated by the faculty member, and approved by the MLML Director, the Governing Board, and the home campus.

3.5.2. All requests for reassignment shall be presented as formal written requests to special review committees appointed for each request by the Chair of the Governing Board in consultation with the Executive Committee. The special review committee shall include two members of the Governing Board, one tenured full-time faculty member assigned to MLML, one member from the home campus, and one member recommended by the individual being considered for reassignment.

3.5.3. The special review committees shall recommend to the Chair of the Board, who shall consult with the home campus department and administrative officers, if appropriate.

3.5.4. All reassignments must eventually be approved by the President of the retreat home campus.

3.5.5 In the case of complete MLML closure, all faculty shall return to their negotiated home campus departments.

3.6. Retention, Tenure, and Promotion.

3.6.1. All final decisions regarding retention, tenure, and promotion (RTP) are made by the President of the candidate's home campus.

3.6.2. All RTP evaluations of regular faculty assigned to MLML, shall be performed using MLML's RTP guidelines and will conform to the home campus' procedures. The guidelines currently in effect for MLML is given in Appendix B.

3.6.3. RTP recommendations of faculty assigned to MLML shall be made by an RTP Committee, elected and composed of tenured faculty assigned to MLML.

4. Support Staff at Moss Landing Marine Laboratories. The Director shall have the authority to make all support staff appointments at MLML. Such appointments shall be made in compliance with staff hiring procedures of the Operating Institution. The procedure currently in effect at the Operating Institution is given in Appendix C.

*From the Student Body Presidents***Breanna Machuca, Student Body President**

The MLML Student Body has had an exciting year thus far. The Student Body elected new Student Body officers for the 2016 year. First year students have finished their first year and everyone is looking forward to a busy summer of field research. On April 30th and May 1st the Student Body held MLML's 50th Annual Open House. Fifty years of MLML research was the theme, over 2,000 community guests came, and over \$11,000 was raised for student scholarships! It was a spectacular event and the Student Body thanks those who contributed to the event.

From the Labs

BIOLOGICAL OCEANOGRAPHY

Dr. Nick Welschmeyer

Dr. Nick Welschmeyer's biological oceanography lab will continue its work in ballast water treatment testing with the Cal Maritime Academy (CSU partner). The Training Vessel T/V Golden Bear has now transited through the Panama Canal and the MLML science team will meet the vessel on the east coast for harbor ballast work in Boston, Fort Lauderdale, Galveston and San Juan, Puerto Rico. Earlier in March, Dr. Welschmeyer demonstrated a newly developed Adenosine Triphosphate (ATP) method to the US Coast Guard at a week-long demonstration meeting in Key West, FL; the new method is being considered as a standardized test for use in rapid compliance monitoring of ship's ballast water. That work featured ATP technical improvements stemming from Jules Kuo's MLML Master's thesis. Ms. Kuo now holds a new full time job as coordinator for ballast water and hull-fouling management for the State of Hawaii in Honolulu.

CHEMICAL OCEANOGRAPHY / TRACE METALS

Dr. Kenneth Coale

The Chemical Oceanography lab is finishing up its third year of the NSF sponsored collaborative research program: Investigating the Cycling of Methyl Mercury from Sea to Land via Marine Advective Fog. We are analyzing data from over 50 stations within the California Current system and preparing a manuscript for publication in a special issue of Deep-Sea Research. Student Alex Olson is continuing to follow up on some conspicuously large concentrations of methyl mercury in the surface microlayer and investigating further enrichments in the production of marine aerosol particles. Student Holly Chiswell is looking at

the genomics of organisms associated with settling particles to see if she can identify potential production of methylated mercury species in the upper water column. Student Mo Wise is finishing her sampling efforts in restricted flow regions of the Elkhorn Slough where she is studying the influence of *Ulva* on the cycling of nutrients in these systems. All students were recipients of MLML/Simpkins/Meyers awards or scholarships this year. Kenneth continues to collaborate with NPS meteorologist Qing Wang and will help support a multi-institutional atmospheric sampling field study in late May this year in which the Shore Laboratory complex will play a large roll. Researchers from the Naval Postgraduate School, the Naval Research Laboratory, the Center for Interdisciplinary Remotely Piloted Aircraft Studies, Scripps Institution of Oceanography and MLML will deploy a complex array of meteorological and aerosol sampling instrumentation in support of several overflights of the Shore Laboratory sensor array by the CIRPAS Twin Otter aircraft equipped with novel infra-red sensors during a one-week sampling effort. In addition, Chemical Oceanography students will support this effort piloting the RHIB while flying a kite/balloon equipped with radio-sonds and atmospheric sensors offshore. This has the makings of a three-ring circus, so wish us the best.

GEOLOGICAL OCEANOGRAPHY

Dr. Ivano Aiello

CSU's Council on Ocean Affairs, Science & Technology (COAST) has recently awarded Dr. Aiello a 'rapid response' grant to study changes in beach morphology and sand budgets in Monterey Bay during the storm activity associated with the 2015 EL Niño. Dr. Aiello and his students have been surveying the beaches of Monterey Bay during the recent storm events and now are studying how the beaches transition to 'neutral' summer conditions and eventually in what is expected to be a "La Niña" fall-winter season. Future predictions of raising sea level conditions combined with more frequent and larger storms and El Niño events require a better, more quantitative approach to understand sediment dynamics in littoral cells in relation to oceanography. Understanding sand budgets during high-energy events and storm-dominated seasons provides essential planning tools for regional and coastal management. Moving from modern costal dynamics to deep-sea and deep-time, Dr. Aiello has been invited to sail in the fall as shipboard sedimentologist in the Western Pacific on a scientific cruise of the deep-sea coring research vessel Joides Resolution. The purpose of this research cruise is to reconstruct the evolution of the Western Pacific Warm Pool since the Miocene and the implications for our understanding of the evolution of El Niño, terrestrial and marine climate and monsoons in the Pacific are obvious. The results and discoveries that will be produced by this expedition can be very important for the climate community and society. If you are interested, more details can be found at the following webpage:

http://iodp.tamu.edu/scienceops/expeditions/pacific_warm_pool.html

PHYSICAL OCEANOGRAPHY

Dr. Tom Connolly

Dr. Connolly joined the faculty in Fall 2015. In his first academic year at MLML, he has taught courses in Physical Oceanography and Data Analysis Techniques in Marine Science. Dr. Connolly is currently advising three graduate students in the Physical Oceanography lab. He will also co-advise an undergraduate student this summer, with Dr. Kim Null, through the

Monterey Bay Regional Ocean Science REU program. Over the past year he has presented his research at the Monterey Bay Aquarium Research Institute and the Naval Postgraduate School, as well as the American Geophysical Union meeting in San Francisco and the Ocean Sciences meeting in New Orleans. He is currently the lead Principal Investigator on an NSF-funded grant to study the effects of surface waves on nearshore currents, in collaboration with Dr. Steve Lentz at the Woods Hole Oceanographic Institution. He is also collaborating with Drs. Jim Harvey, Kenneth Coale, and Jason Smith in continuing MLML's participation in the Central and Northern California Ocean Observing System.

VERTEBRATE ECOLOGY

Dr. Gitte McDonald

Dr. Birgitte McDonald received funding this spring from the Office of Naval Research for a collaborative project to develop a new data logger to measure heart rate in deep diving toothed whales. Additionally, she has been busy co-teaching two courses this semester, Vertebrates of the Gulf of California and Sampling and Experimental Design, and has been continuing her research with Aarhus University measuring the metabolic rate of harbor porpoises. The students are busy with classes and thesis research. Two students, Jackie Lindsay and Keith Hernandez, will be defending their theses this summer.

LIBRARY

Kathleen Donahue

As reported in December, Dr. Joan Parker retired and was replaced by Dr. Katie Lage from the Earth Sciences & Map Library at the University of Colorado Boulder. Joan generously agreed to remain on as a consultant for a few hours each week so Dr. Lage and Kathleen can lean on her expertise and experience. Katie will be arriving at MLML in July. Kathleen has been working closely with the MLML Library staff and ITech to keep the library operations running smoothly. ITech has introduced efficiencies to the archive of multi-media at MLML and began evaluating the digital media management system. Kathleen hopes to make a recommendation to Dr. Lage about renewing the digital media management system contract for next year. Kathleen has selected new artwork to be displayed in some of the vacant library areas and will submit ideas to Dr. Lage for additional specimen displays for the cases to continue improving the aesthetics of the MLML Library. Lastly, MLML launched a fundraising campaign for new library furniture. The Library is still using the same furniture that was donated to MLML by a jail 35 years ago and desperately needs to be replaced! Please visit MLML's crowd funding website to raise money for the new furniture: power.sjsu.edu/mlml.

Emeritus Faculty

Ichthyology

Dr. Gregor M. Cailliet

After Dr. Cailliet's retirement in 2009, he worked with his final 22 graduate students, until

summer of 2013, to help them finish, making a grand total of 122 Master Degrees in Ichthyology since 1972. In fall 2014, Dr. Cailliet moved to my new space in the Friends of MLML (FoMLML) office (room 106). Since then, he has been working on completing manuscripts for publication of both journal articles and a book chapter. Dr. Cailliet is revising his part of the book *Fishes: A Laboratory and Field Guide* through Waveland Press he first co-authored in 1985, with Milton Love, Lara Ferry, and Scott Hamilton. With CSUMB UROC student Amber Reichert, Dr. Cailliet revised the taxonomic database of MLML Marine Ecology and Ichthyology class trawling cruises on the *R/V Point Sur* from ~1985 to present. And, now data from these class cruises are entered into the SIMoN Research and Monitoring Site for the MBNMS (<http://www.sanctuarysimon.org/projects/100170/archival-of-midwater-and-benthic-survey-data-at-moss-landing-marine-laboratories>). Dr. Cailliet gave two keynote addresses in 2015, one for the Symposium on Elasmobranchs for the Fishery Society of the British Isles in Plymouth, England and the other for a symposium on fish feeding habits ("Gutshops") at the American Fisheries Society meetings in Portland Oregon. Both of which resulted in manuscripts for publication. Since 2014, he has been author or co-author of 7 publications (including one book chapter) in refereed scientific journals. Dr. Cailliet continues to work with Dave Ebert and his students at the Pacific Shark Research Center. He continues to help with FoMLML operations, especially in regard to fund raising, writing/signing letters, and introducing speakers in the public seminar series. Dr. Cailliet regularly attends Research Activity Panel (RAP) meetings of the Monterey Bay National Marine Sanctuary (MBNMS), and continues to consult for the State Water Resources Control Board by reviewing reports on entrainment of larval fishes by power plants and desalination facilities in California.

Phycology

Dr. Michael S. Foster

Dr. Foster's UC Press book, "The Biology and Ecology of Giant Kelp Forests," co-authored with Dave Schiel, has received some very complementary reviews in various journals, and a PROSE Award for professional and scholarly excellence from the Association of American Publishers. He continues studying the effects of storm drains on intertidal organisms in Hawai'i and has co-authored two related papers with a third in review. Dr. Foster has also been working with Tenera Environmental and NOAA to assess the effects of the Refugio Oil Spill on subtidal organisms. It is always rewarding to help with the continued success of MLML students, and as one of her committee members, Dr. Foster look forward to traveling to La Paz in June for Laurie McConnico's PhD thesis defense.

Biological Oceanography

Dr. Colleen Durkin, Research Affiliate

Dr. Colleen Durkin joined the MLML research faculty at the end of AY 2015 and has been continuing her research at the interface of biological and chemical oceanography. She recently completed a study of the molecular evolution of silicon uptake in marine diatoms and also a study on the contribution of phytoplankton to carbon export in the South Atlantic Ocean. She participated in a research cruise off the coast of Rhode Island, a collaborative project that integrated sampling platforms to resolve the sinking particles responsible for carbon export out of the surface ocean. For a separate project, the Department of Energy's Joint Genome

Institute is sequencing eukaryotic metatranscriptomes from sediment trap samples collected and prepared by Dr. Durkin. The data from these samples will be used in an ongoing project to resolve the biology of sinking phytoplankton in collaboration with scientists at the Woods Hole Oceanographic Institution and the Lamont-Doherty Earth Observatory at Columbia University. Dr. Durkin has also developed new collaborations with members of the Moss Landing research community. She is collaborating with Dr. Ken Smith at MBARI to develop new sampling methods that can be integrated into his long-term deep-sea monitoring station off the California coast; the goal is to better resolve the biological and chemical composition of sinking particles that reach the seafloor through a combination of particle imaging and molecular methods. Dr. Durkin is also contributing bioinformatics analyses to a project led by Dr. Jason Smith focusing on the molecular transformation of the toxic diatom *Pseudo-nitzschia*. This summer, Dr. Durkin will participate in MBARI research cruises and advise an REU student at MLML. She has been actively writing research proposals that would enable her to develop her research at MLML and support graduate students.

Fisheries & Conservation Biology

Dr. Rick Starr, Research Faculty

Academic year 2015-2016 saw Dr. Rick Starr complete a ninth consecutive year monitoring fishes in central California Marine Protected Areas (MPAs). He and colleagues published a paper in PLOS One describing the slow, but positive effects of MPAs in California's temperate eastern boundary current. Recently he received funding from the Ocean Protection Council to coordinate similar monitoring programs across the entire state. In the last few years Dr. Starr has also been working with The Nature Conservancy and National Marine Fisheries Service to conduct visual surveys of continental shelf fishes. Engineers from MBARI and Marine Applied Research and Exploration have been helping design the camera systems. The purpose of the work is to help improve the stock assessments for fishes that live in high-relief rocky habitats that are not surveyed by NMFS trawl gear. Students from the Fisheries and Conservation Biology Lab have been developing (and finishing!) theses related to the biology of fished species.

Environmental Biotechnology Laboratory

Dr. Jason Smith, Research Faculty

The Environmental Biotechnology Lab group has been breaking new ground in their studies of the toxic diatom genus *Pseudo-nitzschia*. Dr. Smith received funding from the Gordon and Betty Moore Foundation to develop methodologies for genetic transformation of this harmful algal species. This funding has enabled EBL and collaborators at Clark University to generate the first genome assembly at 50X coverage for the focus species *P. australis*. The effort provides a resource which will enable EBL to take full advantage of the ongoing revolution in genome editing tools and synthetic biology for functional dissection of domoic acid biosynthetic pathways. Additionally, bioinformatics tools being developed by MLML's newest Research Faculty, Dr. Colleen Durkin, will enable characterization of regulatory elements critical for heterologous gene expression in our target species. The Alliance for Coastal Technologies (ACT) program has been keeping Dr. Smith busy with field work in Key West, FL and Duluth, MN allowing him to experience the extremes of winter weather. Dr. Smith has also been engaged in protocol development and field trial planning for the 'Nutrient Sensor

Challenge', an ACT led collaboration with USEPA, USGS, and stimulated by the White House Office of Science and Technology Policy. The Nutrient Sensor Challenge was set up as a market stimulation challenge to bring lower cost, user friendly yet robust in situ nutrient (N, P) sensors to improve monitoring and subsequent management of water quality for the nation's most valuable and critical resource. The ACT program was notified that it has been awarded another five year cooperative agreement from NOAA-NCOS-IOOS, so the technology fun will continue at MLML for the foreseeable future. Most importantly, the EBL's ECOHAB student, April Woods, completed her Master's Thesis at the end of the spring semester developing and validating the hypothesis that oxidative stress responses (and associated intracellular signaling) underlie the bulk of the phenomenology associated with stimulation of domoic acid biosynthesis by toxigenic *Pseudo-nitzschia* species.

From the Student Body Presidents

Breanna Machuca, Student Body President

The MLML Student Body has had an exciting year thus far. The Student Body elected new Student Body officers for the 2016 year. First year students have finished their first year and everyone is looking forward to a busy summer of field research. On April 30th and May 1st the Student Body held MLML's 50th Annual Open House. Fifty years of MLML research was the theme, over 2,000 community guests came, and over \$11,000 was raised for student scholarships! It was a spectacular event and the Student Body thanks those who contributed to the event.

Assistant to the Director

Kathleen Donahue

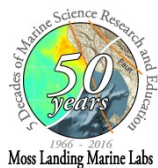
Kathleen has almost completed her first year at MLML and has truly enjoyed working alongside her new colleagues as well as those from marine labs past. The spirit of Moss Landing is very real and the level of dedication and commitment she witnesses from the students, faculty, and staff every day is outstanding. Since Kathleen started in June 2015, she has managed MLML administration and operations, drafted an annual report for the past three years, contributed to the SJSU Research Foundation's annual report, revamped MLML's Scholarship Program, participated in the planning for the MLML 50th Anniversary, and produced a fun video for the Library's crowd funding website. Kathleen thanks everyone for their patience as she got to know the MLML Governing Board this year and hopes to visit all of MLML's consortium campuses soon.

Friends of MLML

Kathleen Donahue

Friends of MLML lost its longtime Director, Brynn Kaufman, in 2015 and was limping along with the help of an amazing and dedicated student assistant, Angela Zepp from the Phycology Lab. Around December, Angela needed to focus on her thesis full time so Kathleen started managing FoMLML with the help of Dr. Greg Caillet and guidance from Director Jim Harvey. Kathleen met with one of MLML alumni Erin Loury (class of 2011) and her parents, David and

Dana, to set up a generous endowment to award a \$5000 annual scholarship to a student that goes above and beyond in service and outreach to the MLML community. In addition, Kathleen worked on renewing MLML's five year Packard Grant supporting student travel and research, assisted the Student Body with the 2016 Open House, and resumed communications with FoMLML donors. One of Kathleen's favorite projects was to design and install an interactive kiosk in the MLML lobby. FoMLML received a donation from the family of another alumni and Friend, Melanie Mayer who passed away in 2013. The donation was used to purchase a TV and software in the lobby. A slide show of MLML photos from the past and present plays throughout the day on the TV and was a huge hit at this year's Open House. The kiosk interface is only about 1/3rd complete, but it is still fun to check out! Kathleen hopes to have it full of videos, games, and interactive media by the 50th Anniversary weekend. During 2016, she hopes to resurrect the FoMLML public lectures in September with a speaker who is an expert on birds. FoMLML will be partnering with the Monterey Bird Festival in September to host a day of bird watching, lectures, and activities to include a film screening. FoMLML has collected almost \$500,000 in gifts and donations and the Monterey Bird Festival is already proving to be a popular event that could yield more donations and new Friends of MLML.



MLML'S 50TH ANNIVERSARY: August 5-7, 2015

Friday August 5th: VIP Reception 3-5pm, RSVP to 50thanniversary@mlml.calstate.edu

Saturday August 6th: Mini Open House and BBQ 10am to Midnight, [buy tickets](#)

Sunday August 7th: Brunch, Volleyball and Activities TBD 10am-3pm, [buy tickets](#)

MLML 50TH ANNIVERSARY BLOGS: <https://anniversary.mlml.calstate.edu/>

MLML 50TH ANNIVERSARY TICKETS: <https://mlml50thanniversary.eventbrite.com>

MLML 50TH ANNIVERSARY MERCHANDISE: http://www.zazzle.com/mlml_50th/collections

MLML LIBRARY CROWDFUNDING PAGE: power.sjsu.edu/mlml



**MLML Governing Board Meeting
27 May 2016**

MINUTES

Governing Board Members Attendees:

Jim Harvey (MLML, Director)
Kathleen Donahue (MLML Asst. to Director)
James Lindholm (CSUMB, MLML Governing Board chair)
Ivano Aiello (MLML, Chair, Geological Oceanography)
Nick Welschmeyer (MLML, Biological Oceanography)
Michael Graham (MLML, Phycology and Aquaculture Center)
Manny Gabet (SJSU)
Michael Parrish (SJSU)
Pam Stacks (SJSU)
Shannon Bros (SJSU)
Michael Lee (CSU East Bay)
Jim Murray (CSU East Bay)
Jason Singley (CSU East Bay)
Mathieu Richard (CSU Fresno)
Andrew Lawson (CSUMB)
Ron Coleman (CSU Sacramento)
Amy Wagner (CSU Sacramento)

Additional Attendees:

Tom Connolly (MLML, Physical Oceanography)
Colleen Durkin (MLML, Research Faculty)
Jocelyn Douglas (MLML, Health & Safety Officer)
Jane Webster (*Schuytema*) (MLML, SJSU State)
Jeff Arlt (MLML, IT department)
Sandeep Muju (SJSU Research Foundation)

Start: 9:45am

Minutes: Elizabeth Ramsay (MLML, Student Assistant)

James Lindholm:

Motion to approve minutes from previous meeting; minutes approved.

Faculty/Staff Updates

Jim Harvey and Kathleen Donahue reporting

- Joan Parker (former MLML Faculty Librarian) retired in January but generously agreed to remain on contract to consult and assist MLML until the new Librarian, Katie Lage arrives in July. Katie is moving to MLML from the University of Colorado Boulder's Earth Science Library and is bringing her experience with GIS and spatial data to the MLML community.
- MLML hired Captain Brian Ackerman as the Marine Operations Manager. Brian Ackerman was selected because of his long history with local marine research vessel operations experience. MLML is on a trajectory to acquire a new, larger vessel. Brian brings a wealth of knowledge and experience as a captain in our local waters, retrofitting research boats, scoping out potential research vessel requirements, outfitting boats as well as running his own charter boat business out of Moss Landing. Brian led the MBARI team for bringing the R/V Rachel Carson into the MBARI fleet.

Background

When NSF and UNOLS decided to retire the R/V Pt. Sur, MLML was forced to sell her to the University of Southern Mississippi (USM). The vessel was turned over in perfect, turn-key condition as a resource, ready to launch. Harvey pointed out this was why MLML fought so hard to keep the R/V Pt. Sur. The USM was very appreciative and report that the vessel is exceeding their expectations. With the loss of the Pt. Sur, MLML had to let all the crew and the Marine Superintendent go. This left a small staff to run Small Boats. JD Douglas has done an extraordinary job of keeping MLML's Small Boat Operations going by acting as Coordinator and Captain.

- MLML hired a new Help Desk Administrator in the ITech Department, Michael Radojovic
- Dr. Michael Lee from CSU East Bay will be the Visiting Scientist at MLML during AY16-17. He is actively engaged with the Center for Aquaculture so his appointment will primarily consist of working to develop the Center's capabilities.
- Dr. Patrick Gagnon, a Benthic Ecologist from Memorial University in Newfoundland will join the MLML community as an International Scholar in Ay16-17
- There have been no consortium applicants for the Visiting Scientist AY17-18. The posting was expended until 1 August. Only 3 candidates have applied to date, all are

from outside the CSU. MLML aims to advertise for the Visiting Scientist opportunity well in advance (2 academic years in advance) so that interested CSU Faculty planning for sabbaticals have enough lead time to make arrangements with their home campus.

- Aiello and Harvey discussed additional researcher affiliations with MLML and explained that oftentimes scientists from the outside CSU are seeking Post-Doc opportunities, they are not Faculty at any institutions so having PI status at MLML provides them an avenue to apply for research grants.. Former and current candidates offer unique and qualifying backgrounds such as Iliana Ruiz-Cooley from UCSC who works with food webs and stable isotopes and is interested in managing or advising graduate students. She will be working at MLML as a base for applying for grants to support her work. Others could broaden the diversity at MLML.
- Dr. Rick Starr, MLML Research Faculty Member and 30+ year appointment as the CA Sea Grant Specialist onsite will be retiring from CA Sea Grant in July. He will remain on as a Research Faculty member at MLML continuing his research using fish tagging to understand the ranges of fishes.
- This creates a gap at MLML. They still want a specialist here so MLML proposed bringing a person with a strong background in Aquaculture. Although MLML is losing Rick Starr, they will be gaining a specialist in the field of Aquaculture; an area they growing.
- The new Aquaculture Specialist will be funded 75% by CA Sea Grant at UC San Diego and 25% by MLML. The new specialist will teach and mentor students. The position will be posted at the end of summer 2016, recruitment will be conducted in the Fall and Winter with the start date in Summer 2017. MLML and CA Sea Grant is expecting a large pool of candidates as this is a burgeoning area and MLML has recently opened a Center for Aquaculture which it intends to be a state-of-the-art facility.

MLML Graduate Program

Jim Harvey

- The Governing Board packet contains details on FTE's
- Spring 2015 = 71 registered graduate students, 3 undergraduates
- This pattern has been consistent for the last 3-4 academic years
- Bulk of students continue to come from SJSU and CSUMB because most potential students choose the campus that is located closest to MLML
- MLML needs to conduct outreach at the other consortium campuses to attract students from the other consortium campuses.
- New/potential students are informed about benefits to applying through other consortium campuses besides SJSU and CSUMB and those advantages are also listed on the MLML Graduate program website
- MLML's Graduate program Coordinator has built strong connections to the Registrars at the consortium campuses and makes sure students are aware that they do not need to visit

their home campus; she can handle any business required while they are enrolled at MLML

- Graham pointed out that information about the other campuses is not up to date so when a new student investigates these options they are misinformed so MLML faculty are hesitant to promote advantages of applying through other campuses.
- Also discussed and considered was the value of choosing one campus over another and who gets the student fees
- Harvey explained that MLML keeps much of these details nebulous online to avoid emphasizing that is also cheaper to apply through certain campuses versus others and he wants to continue making regular visits to the consortium campuses to increase recruitment
- All agreed this illustrates the complexities of MLML
- Having onsite advising POC's representing MLML could both increase awareness and applicants, creating a stronger connection between MLML and the consortium campuses.

ACTION ITEM: Identify 1-2 POC's at each campus, Kathleen will collect and distribute

- Enrollment is down by about 10% due, in part, to new Faculty who are just starting and, secondly, because MLML is pushing students out faster
- Enrollment should increase over time as new Faculty get their labs and research going and attract new students
- Funding for graduate students continues to be a challenge
- The AY15-16 Scholarship reception was a huge success, this year students gave in depth talks about the research the awards will support
- The donors were extremely appreciative and many expressed how little they actually knew about what students were working on and enjoyed the presentations

ACTION ITEM: Add amounts of awards to Graduate program report and send to Governing Board

ACTION ITEM: Invite Governing Board to future Scholarship Award receptions

Digital Learning – New Online Course

Ivano Aiello

Ivano Aiello presented the model for an online course on basic oceanography being developed in order to collect feedback and gauge interest from the Governing Board. He seeks ideas and collaborations from the consortium campuses.

- This online course in basic oceanography using the Monterey Bay as the emphasis will be a great way to recruit new students and familiarize them with all disciplines of marine sciences.
- It can serve as a mechanism to expand MLML's reach and publicize it to a wider audience throughout CSU.
- The goal is offer this course in Fall 2017 as GE but first requires the Board's approval.

- MLML did thorough research to ensure the course does not overlap with courses being taught by consortium campuses.
- The online course design contains multi-media, animations, and an interactive roadmap so students can choose the area of study to work on; each area linking to the others so that students can learn about the interaction of land-sea interfaces and how these processes are interconnected.
- The course will be taught by 2 Faculty members and will be a self-contained module in two parts: Content and Lab/Tests, including virtual and real field trips. \
- Students will be tasked with taking a field trip in their own community to observe nature and report back.
- Content will include open source materials from NOAA, USGS, and other NGO's and be shared with the consortium.
- The course will also require students to come to Moss Landing for the weekend to attend lectures, go on more field trips, get out on the boats and work in the lab.
- Students will be housed in the Seminar Room.
- The course will not affect FTE's, the teaching load is minimal.

There was discussion about how MLML courses are approved and it was confirmed that they get vetted by the MLML Governing Board. It was pointed out that the CSU system for classifying GE courses is nuanced and should be considered as this course is developed. Treating it as a transfer course could alleviate this challenge. MLML can ask that the GE specialist at each consortium campus review the course to make it sure it will qualify as GE. Some Board members suggested making it a one-day course that would make coming to MLML easier and could attract hundreds of undergrads. Richaud reminded the group that MLML must remain a graduate school, therefore, the course capacity must be capped, the weekend classes need to be two days to be successful and MLML cannot be burdened by teaching 100 undergrads. The distance and remoteness of MLML will be major contributing factor to the course's success.

ACTION ITEM: Ivano and Kathleen will distribute the syllabus to the Board.

Weekend Course

Jim Harvey

Background

The weekend course was generated to bring students from other consortium campuses and enjoyed many years of success. The goal is to bring it back:

- It will be offered as a 1 unit course
- 16 hours of instruction: pre-work prior, weekend at MLML, followed by some final assignments after the weekend concludes.
- MLML uses a pre-existing, generic, 1-4 unit course already on the books.
- Will have some lectures but mostly the students will go on field trips

- It differs from the online course in that it focuses on a single discipline of marine science such as marine mammals, the intertidal zone, or geology.
- MLML's ability to teach weekend courses is useful to maintain a connection to the consortium campuses.
- Traditionally it has been co-taught by MLML Faculty but MLML is proposing that consortium campus faculty consider teaching too.
- WTU's would go to consortium campus Faculty.
- MLML wants to identify the 1st weekend that this course would be taught and the discipline that would be taught.

The Board members discussed if this could also be a platform for the distance learning effort and interest in co-teaching was gauged.

ACTION ITEM: Board members will provide input to MLML on what they think the course should look like and their faculty requirements for 1 WTU.

Center For Aquaculture

Jim Harvey

Background

A number of years ago, Dr. Kenneth Coale (MLML) received a Packard grant to rebuild MLML after the earthquake. Some of those funds were used to build the current Aquaculture Facility where the previous shore lab was located.. The vision is to have a bigger, more robust aquaculture program that involves all CSU campuses and other stakeholders including private industry. The concept for its capabilities and mission will be to broaden and incorporate education, research, and policy in aquaculture.

- MLML submitted a proposal through SJSU to be considered as an Organized Research and Training Unit (ORTU) so that the facility can be officially called the "Center for Aquaculture"(CFA), emphasis being on a "Center" for all CSU campuses.
- Goal is to build robust partnerships with federal and state agencies, NGO's, academia, private industry.
- Mike Graham informed the board that all of the consortium campuses were surveyed about their interest in aquaculture studies and education, they were invited to the January COAST and Sea Grant funded meeting and that many participated. Overall feedback from the surveys was very supportive of the CSU-wide concept.
- MLML is starting to develop the infrastructure both at the CFA and elsewhere to work on aquaculture research and policy in this region.
- CSU does not currently have a good model to support a CSU-wide consortium.
- Curriculum development will follow, thinking broadly in terms of economics, business, nutrition – all integrated and demonstrating interconnectedness.
- Graham described MLML's goal to make the CFA a one-stop shop with no redundancy and to leverage programs for a greater impact in an integrated manner.

The discussion that followed focused on ways to engage private industry such as memberships to the CFA and forming a steering committee that reflects a CSU-emphasis.

SJSU-CSUMB

Jim Harvey

Background

In Fall 2014 CSUMB's President, Eduardo Ochoa, and SJSU's President, Mo Qayoumi, interacted with the CSU Chancellor to discuss MLML moving its administrative campus to CSUMB. CSUMB President Ochoa declared his desire to take over administration of MLML.] SJSU has always been the administrative campus for MLML but the By Laws state that any campus can lobby to be the administrative campus. It is expected that the Chancellor will not be revisiting the issue until the new SJSU President is settled in. At the Fall 2015 Governing Board meeting it was decided that the MLML Governing Board would submit a letter to the Chancellor requesting that the Governing Board be a part of this discussion.

- Harvey confirmed that the letter was sent via current SJSU Interim President Martin to Chancellor White but there has been no response.
- Harvey pointed out that MLML is a consortium of CSU campuses, but in reality is very much an SJSU department with Faculty and Staff who are heavily invested in retirement plans at SJSU, all of MLML research funding is held at SJSU, SJSU or the Research Foundation owns MLML boats, vehicles, and properties.
- MLML started out having students and Faculty from all seven campuses but evolved over time to where all Faculty being appointed through SJSU.
- Harvey pointed out that MLML is looking to change back to a model that supports all consortium campuses and make a stronger connection to the consortium campuses and not be so SJSU-centric.
- Stacks reported that the Chancellor has five new Presidents and is methodically building a new team. SJSU invited the Chancellor to campus and he gave a very positive pep talk, he talked about how much student success is tied to research and his talk emphasized the need to optimize resources. Stacks advised MLML to capitalize on this new theme by continuing to connect the Chancellor's office with MLML's value to CSU. The CFA can be a perfect model to illustrate this..
- Dean Parrish concurred saying Interim President Martin has discussed the issue with incoming president Mary Papazian and he will work with Stacks to urge President Papazian to be involved in the decision.

Lunch Break: 1200-1300

BUDGET REPORT

Jim Harvey and Kathleen Donahue

Background

MLML has an operating budget that includes funds through SJSU, the partial return from indirect costs generated by grants through the Research Foundation, and donations through the Tower Foundation. The operating budget is complicated and complex because MLML is a research-oriented facility that is a hybrid operation supported by both SJSU and grant funded personnel. Furthermore, MLML is not operated like a typical campus. For example, MLML has its own Science Library.

- This academic year the Dry Classroom was remodeled to be more modern and functional and the Norte building had to get a new roof.
- MLML also gave the support staff cost of living increases out of their existing operating budget, and several SJSU staff received increases through CSU/union negotiations.

State budget:

A large portion of this budget goes toward Faculty and staff salaries and benefits. A little money funds the visiting scientist. Each consortium member pays in \$4,200 which goes to funding the visiting scientist. CSUMB pays \$50,000 for additional use of MLML. This budget also encompasses faculty start-ups, administration, instructional supplies, the science diving program, health and safety, facilities, IT services, marine operations, utilities, and library services. Only half the library costs are represented here. MBARI funds the additional half (approximately \$100,000).

Research Foundation:

All grant money awarded to MLML goes through the SJSU Research Foundation. MLML produces about one-third of the contracts and grant activity at SJSU (\$15-17 million). MLML gets three sources of income through the Research Foundation:

1. F&A Return which fluctuates from year to year based on MLML's performance/awarded grants
2. Annual funding the Research Foundation provides MLML to cover support costs for research administration, IT, and facilities.
3. Rental income from MLML properties. MLML has two houses they rent to visiting faculty and students and they rent one of the docks to the Del Mar Seafood Company.

The F&A Return projected for next fiscal year is only a third of what MLML requires to operate so MLML will have to dip into reserves to supplement salaries and operational services.

- Sandeep Muju pointed out that you have to spend money to make money. (i.e. one year MLML spends a lot so the Research Foundation costs go up but the next year MLML makes more so the research Foundation costs go down).
- Harvey reported that MLML brings in an average of \$17 million in awards, there is some variability but the trend over 5 years has been consistent.

- Donahue and Harvey also reported to the Governing Board that they used about half of the MLML reserves to purchase an instrument for the WPCL group housed at the CA Fish and Wildlife HQ in Rancho Cordova who perform analytics on water pollution.
- WPCL brings in about \$2-\$3 million in contracts per year, but they had no funds for the new instrument - all of their indirect cost recoveries are given to MLML.
- The new machine will pay for itself over 4-5 years, a good ROI.

MLML 50th Anniversary

Jim Harvey and Kathleen Donahue

In 2016 MLML will be 50 years old. A large event is planned for August of 2016. On the evening of Friday August 5th there will be an exclusive party for the Chancellor, Congressman, CSU Presidents, MLML Governing Board and potential high level donors. Saturday August 6th will have a mini-Open House for alumni, former and current faculty and staff to attend. On the Saturday evening there will be a large BBQ party with live bands in the field at the bottom of the hill. MLML has been producing a 50th Anniversary blog on the MLML website. The weekly blog posts are fun and insightful looks into the history of the lab. Governing Board members are encouraged to read them and attend the festivities.

- Harvey reported that MLML raised \$16,000 to produce a commemorative book which will incorporate photos and pieces from the weekend event. The book is expected to be produced at the end of 2016.
- MLML was encouraged by SJSU Advancement to use their crowdfunding page to launch a campaign for new Library furniture which ended up raising over \$14,000. The page included a short video produced by Donahue showing pictures of the same furniture over 35 years that originally came to MLML from a jail. With these funds, MLML hopes to purchase chairs and tables worthy of the beautiful spaces in the MLML Science Library.

MLML Web and Media

Jim Harvey and Kathleen Donahue

- MLML has formed a Web Committee to spread the work needed to revamp MLML's web presence
- The website should reflect the complexity of the lab to the public and potential students
- The difference between Faculty, Research Faculty, and Research Affiliates should be clear
- MLML IT will work with the new Librarian to propose a new digital media management system to the Faculty that captures and catalogues images and videos.
- This new system will be managed in a way that can be easily accessed

The Governing Board raised concerns about intellectual property and student's thesis work being used by MLML. Stacks reported that the CSU is developing an overarching policy so no changes should be made. All agreed that at a certain point the CSU must vet the policy through the Student and Faculty unions.

Action Item: The MLML Graduate Program Coordinator will ensure students sign a contract stating they acknowledge the “your data is our data” policy and that Federally-funded student work is open-source.

MLML Film

Jim Harvey

Harvey screened the six-minute outreach film MLML produced and asked the Governing Board members for feedback. The film will be used to recruit new students, as an outreach tool, to solicit donors, and to communicate to the CSU community and general public what the MLML are, what they do, and highlight their proximity to the Monterey Bay.

CSC Proposal

Jim Harvey

MLML is applying for an NSF grant to be designated as a CSC; these funds award campuses that introduce science, especially the marine sciences, to under-represented students. The award will fund 5-6 students per year for 15 years.

- This will aid recruitment in oceanography, a subject area where it is challenging to attract new students with no promise of funding when they can get support at a different graduate school.
- This award and the 5-6 students funded will stimulate all the oceanography programs at MLML

New Governing Board Chair

James Lindholm

James Lindholm’s term as Chair of the MLML Governing Board is up. The Chair serves for two years. Harvey nominated Michael Lee from CSU East Bay. He will be the Visiting Scientist at MLML in AY16-17, he is already active and engaged with the CFA and MLML students. Graham nominated Mathieu Richaud from CSU Fresno for Vice Chair. He is a vocal supporter of MLML, maintains strong ties with the faculty and has been serving on the Governing Board for several years.

Lindholm called a motion to accept the nominations by acclimation.

- None opposed.
- Motion accepted.

Action Item: Updated list of members will be distributed by MLML along with the Minutes.

MLML By Laws (BL) and Rules of Operation (ROO)

All Members

Discussion followed a motion to accept new Chair and Vice Chair about reviewing the By Laws and Rules Of Operation. These documents have not been changed since 2007. When MLML submitted their Annual Report to the Chancellor's Office in Fall 2015, they pointed out that MLML's BL and ROO contain no mechanism to dissolve and need to be fixed. Harvey drafted a paragraph to address this issue and it was immediately rejected by the Chancellor's Office. The Board members proposed forming the following review committee who will draft proposed amendments:

Harvey
Dean Parrish
Lindholm
Lee

Action Item: The review Committee will submit revised renditions of the BL and ROO to the Governing Board prior to the Fall 2016 meeting. The Board will vote at that time to accept and amend. The Governing Board will seek guidance from the CSU General Counsel prior to finalizing.

1445: Meeting Adjourned