



COASTAL FUND MINUTES

Associated Students

Tuesday, 1/21/20, Nati Conference Room

CALL TO ORDER: 6:06, minutes recorded by Carissa

A. ATTENDANCE

Name	Note: absent (excused/not excused) arrived late (time) departed early (time)	Name	Note: absent (excused/not excused) arrived late (time) departed early (time)
Jeremy Francoeur Chair	present	Anushna Patel Outreach Coordinator	present
Mike Martin Co-Chair	present	Katherine Fukada Outreach Coordinator	present
Jackie Rigley Undergraduate Rep	present	Sarah Siedschlag Advisor	present
Karen Thornton Undergraduate Rep	present	Carissa Stewart Administrative Assist	present
Ethan Estrada Undergraduate Rep	present	Kevin Sway Senate Liaison	absent
Phoebe Racine Graduate Student Rep	present	Emma Swanson Senate Liaison	absent
Laura Ingulsrud Graduate Student Rep	present	Ken Barrow	Present

B. COMMITTEE BUSINESS

1. Approval of Attendance and Proxies

MOTION/SECOND: Jeremy/Mike

Motion language: Motion to approve attendance and proxies.

ACTION: consent

Additional approval required: YES (Senate)

2. Approval of Minutes

MOTION/SECOND: Jeremy/Phoebe

Motion language: Motion to approve minutes from last week

ACTION: consent

Additional approval required: YES (Senate)

C. PUBLIC FORUM

(Announcements, appreciations, concerns, requests to have items added to agenda)

- Krispy Kreme donuts outside of Pardall
- Strike for grad students because cost of living should be accounted for

D. REPORTS

1. Advisor Report: Siedschlag

- i. EAB single use plastic fair in front of SRB 1-4
- ii. New grants and posted outreach position on slack

2. Chair Report: Francoeur

- i. Summer Scholar- didn't actually come to fruition
- ii. NRS looks good and will send to Mariam Whitman
 1. might add a couple of questions

3. Vice Chair Report: Martin

- i. no report

4. Senate Report: Sway and Swanson

- i. Absent

5. Administrative Report: Stewart

- i. Scheduled all major grants
 1. one person sent after deadline

6. Coastal Service Program Report: Stewart

- i. no report

7. Outreach and Education Report: Patel and Fukada

- i. request funds for stickers \$200
- ii. Digiknow \$10
- iii. running out of physical places to go, wanted to do people profile
 1. Brandon, Bee lady, Xochti, interns, Microbiology of kelp guy,
- iv. Underwater parks day this last weekend
- v. Gala theme: Protecting our future, 50th anniversary of earth day
- vi. Updated website with new photos
- vii.

8. Sub-Committee Reports

- i. NRS scholarships
- ii. Long-term funding application
 1. didn't meet and will plan out some time this week

2. Propose a merger between long-term funding and pre-screening
- iii. Pre-screening process for applications

E. AGENDA

1. Approval of Agenda/Additions to Agenda

MOTION/SECOND: motion to approve agenda and additions to agenda

Motion language: Jeremy/Karen

ACTION: Consent

Additional approval required: YES (Senate)

F. OLD BUSINESS

G. NEW BUSINESS

Fall 18-10 Extension Request: The effects of Thomas Fire ash on Santa Barbara Channel phytoplankton communities

MOTION/SECOND: Jeremy/Laura

Motion language: Motion to approve Extension request for FALL 18-10 until January 21st, 2020

ACTION: Consent

Additional approval required: YES (Senate)

MOTION/SECOND: Jeremy/Mike

Motion language: Motion to approve funding for Coastal fund outreach for \$200 worth of stickers

ACTION: Consent

Additional approval required: YES (Senate)

MOTION/SECOND: Jeremy/Mike

Motion language: Motion to approve funding for coastal fund outreach for \$20 for Digiknow

ACTION: Consent

Additional approval required: YES (Senate)

H. DISCUSSION

1. Scientific Dive Fee Support

- i. 3-4 people to fund for the scientific dive program
- ii. More people needed financially this quarter than summer
- iii. Most seemed like they were going to do labs with the scientific dive
- iv. Might need to write a guidelines to explain better how they want people to fill out application
- v. Work on application
- vi. Anyone can take this course
 1. A, E, F

MOTION/SECOND: Jeremy/ Laura

Motion language: Motion to approve applicants A, E, F for eligibility of funds for Scientific Dive Fee support

ACTION: Consent

Additional approval required: YES (Senate)

I. PROJECT REVIEW

Project Title: WIN 20-01: Kelp forest and rocky reef monitoring student internships

Sponsoring Organization: UC Santa Barbara Marine Science Institute

Presenter Name: Avrey Parsons-Field

Summary:

The PISCO program at UCSB (PI Dr. Jenn Caselle) has monitored kelp forest and rocky reef habitats in the Santa Barbara Channel since 1999, with a large portion of data collected by UCSB undergraduate divers. Reductions in funding allocated towards empirical data collection have limited our ability to hire and retain student divers, as most students do not have the means to work full-time without pay for prolonged periods. Our data collection methods are training-intensive, and retention of students for multiple seasons increases 1) the level of expertise and training opportunity for returning divers, 2) training capacity for new divers, 3) continuity and quality of the monitoring data, and 4) increased efficiency and productivity, enabling maintenance of important time-series. Over the next two years, as we gather data to contribute to the ten-year review of California's Marine Protected Areas, we request funding to pay two student divers to work on our summer research team.

Presentation Notes:

- Mike recused himself
- Katie and Avery work together
- Katie is stuck in traffic, but showed
- Undergrad at UCSB
- Started working for PISCO
- Applied for funding before
- PISCO is a multi-campus program focus on California current ecosystem
- Group in Santa Barbara is kelp service monitoring program
- Lots of different projects going on
- Multiple interns get to work on multiple different projects with different experiences
- Big group, used to get sponsored by Packard and Moore foundation and another foundation

- Funding dropped after recession
- Funding of marine protected areas
- Over the last 10 year, funding has dropped off
- Government has helped form time to time but its diminishing and is very limited
- Use teams of scientific divers, do training, diving and counting animals and organisms from june to november
- Sites in marine protected areas and in reference areas
- Multiple transects in longshore and offshore
- First half of summer do benthic communities
- Second half focus on fish
- Do intensive training with divers
- All data gets back into lab and entered into excel and then check and then processes
- Make sure its ready to go for all the people who use their data
- Channel islands mpa's have been in the ocean longer
- Divers can tell difference in kelp forest ecology
- Trained over 100 ucsb undergrads to date
- Learned hand-on experience in well-respected research program
- Will accept divers with minimal experience because the training is so intense
- Divers can get at least 100 dives in the first year
- Have a huge pool of trained scientific divers
- Many return to dive after their first year
- Few core long term staff, but rely on experienced undergrads to train new divers
- Nice flow of diving interns
- Secured three years of funding from CA to continue monitoring
- Budget is 40% reduced than what they asked for
- Can't fund as many people as who wants to come back
- Really hard to do this program if they are not supported in some way
- Do require volunteering before they can apply to be interns
- If there is no funding then they cannot do this program

Questions

- Are you seeing any effects that are similar to the blob in fish species and kelp
 - A-causes aren't fully linked yet, a number of sea stars died because of a disease
 - Warm water brought a bunch of urchins in when their predators died so the urchins were able to eat all of the kelp
 - Urchins compete for food with fish which affects ecosystems and economy
 - Kelp has diminished in the western channel
 - Large temperature gradient within the channel
 - Near anacapa there is lots of kelp and no urchins
 - Shows several different environments that the diving interns get

- How many interns do you typically have
 - Last year they had 7-8 students
 - Will bring back past interns, work is strenuous
 - On a normal day 4 people will be divers while the rest is in the lab
- Criteria for becoming an intern?
 - Usually makes funding work to fund as many people as possible
 - Everyone volunteers a year, tell them they will try their best to find funding to pay for divers
- If we can only get funding for one, would you still request funding
 - Would definitely take whatever money they can get
 - If funding is tighter than they can drop sites from visiting
- Intern from last year published a paper, is that a common thing?
 - Not the norm for an undergrad to publish a paper
 - Sea stars died and urchins developed, not as abundant in the MPA's
 - Hypothesis that sheephead and lobsters provided resistance to the urchins
 - Did some analysis with his brother to partner up and created a story
 - Is common for people who work with them to be working on projects
- Do you think that you might get more funding in the future
 - That is the hope but it never makes sense
 - Government barely gives money, will get long-term funding from the state
 - Hope the government money is enough bc its cost effective
- What is the retention rate for coming back from the previous year
 - Around 4 out of 8, but really varies
 - At least 3 returnees every year

Board Discussion:

- gave almost the same spiel but more urchin talk
- Avery would run some of classes
- schedule probably based on when government boats go out
- seems pretty easy to become an intern
- seems like a hands on training process
- interns have to have own equipment, be certified
- healthy sum for \$15.00 for 42 weeks
- we funded only one last year
- made a case about why its important and the quality of the internships
- valuable program
- interns wrote their own paper

MOTION/SECOND: Jeremy/Karen

Motion language: Motion to table WIN 20-01

ACTION: Consent

Additional approval required: YES (Senate)

Project Title: WIN 20-02: Restoring Fuel Breaks to Promote Native Ecosystem Services

Sponsoring Organization: EEMB

Presenter Name: Robert Fitch

Summary:

The funds requested will continue to pay two undergraduate students to complete an independent project and fund two new undergraduate students on a new independent project. We are requesting funding to provide stipends for four part time (60hrs/quarter) undergraduate interns for two academic quarters. These stipends would be expended during Summer and Fall 2020 in order to help off-set living costs so students may spend more time gaining valuable research experience on campus. The amount of funding is calibrated to \$1,000 per stipend for two quarters per student, ($\$1,000 \times 2 \times 4 = \$8,000$) ~\$16.67/hr.

Presentation Notes:

- Working with US forest service on grant
- Managing lands for fire protection
- Forest service does fuel brakes to reduce fuel
- Large disturbances while fuel braking on ecosystem
- Spreads non-native species
- Non-native species out compete native species and are worse for the fires
- Non-native causes more debris flow
- Have to manage for fire but also the management techniques destroys the ecosystems
- If we can use native plants on management areas, that are less flammable and deep roots
- Trying to understand role of native species
- Can mow and not fuel brake them as often
- Just began project which was taking native plants areas, look at fuel characteristics, and compare to areas with non-native species
- Project has already started restoration project
- A lot of focus in on woody shrubs, but not known so much is native flora and fauna
- Don't know specific species
- Try to understand where invaders are and how it affects
- Invaders have different competitive facets
- Looking at what the feasibility is to use native plants instead of fuel brakes

Questions

- Can you talk about the internships and the difference between this quarter and last quarter
 - Last quarter was about preparing to plant
 - Plants are in greenhouse right now
 - 2 interns started independent project
 - Looking at whether native plants are in the seed bank
 - Intern will take subsample of soil core and artificially add treatments
 - Starting preliminary trials to plant in seed bank
 - Two other interns doing field work with him
 - Does field days on Saturday
- Have you outlined potential conferences, what are some goals
 - Undergrad has been getting an Irka awards and doing a presentation poster
 - Goal is for the undergrad to write a paper, worked in greenhouse
- Applied last quarter, wasn't able to fund completely, is this request filling in from last quarter or are you expanding
 - Their project will extend in the spring quarter, some stay during summer
 - Help undergrads doing independent project, another pet project
- Are you also planning on doing controlled burns to assess your research?
 - Goal would be to link fuel traits with plant physiology
 - Burn plants in chamber and in field would take physiology
 - Out of the scope of this project
- Will you be working at Sedjwick with the controlled burns?
 - yes, he already talked to the guy in charge
- How much oversight are you giving the interns
 - Don't work with the undergrads as much on the independent project except for meetings and emails
 - New undergrads he works with 2-4 hours of a time, working 10 hours a week with undergrads and more in the field
- Are you the instructor for independent research
 - Just the advisor not the faculty staff,
 - All do one unit basic class for research, internships just moved up
 - They do their own hours
- Testing perennials, and testing annuals?
 - Yes testing and planting natural plants
 - Bigger plants have shown to compete better but not as good in a fuel brake
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Board Discussion:

- internships are vague
- seems like he works with them but gives them a lot of freedom
- proposal was really cut and paste but questions helped with learning more about internships
- if data comes out well it will be helpful for better maintain fuel brakes
- California is more interested in that topic
- appreciate independent study in germination
- wish he would have been more concrete for projects with interns
- getting great experience , vague but sounds good
- not super happy about logistics of stacked grant project
- can be very messy
- independent study is different, plus two other internships
- could give him the difference from last quarter
- could ask him to clarify or specify
- could ask him to close out one and start a different one
- could ask him to finish this project and apply in spring after final report
- or give money to independent project because its difference
- should give him the options, let him know our concerns
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MOTION/SECOND: Jeremy/ Karen

Motion language: Motion to table discussion on WIN 20-02

ACTION: Consent

Additional approval required: YES (Senate)

Project Title: FALL 20-03: Preventing ExxonMobil's Gaviota Oil Trucking
 Sponsoring Organization: Environmental Defense Center
 Presenter Name: Linda Krop

Summary:

The purpose of this project is to prevent ExxonMobil from restarting oil production from three offshore platforms and trucking oil through the Gaviota Coast for up to the next seven years.

Presentation Notes:

- Exxon mobile the oil company is proposing to do a trucking project on the coast
- Oil used to be transported via pipeline
- 2015 there was a pipeline rupture, and corrosion which resulted into massive oil spill
- Exxon no longer had a way to transport oil
- Oil has been shut down
- Exxon mobile wants to start offshore oil again
- 33 thousand barrels of oil a year

- If allowed to truck it will expand offshore oil industry
- The trucking also gives concerns
- Safety is a concern, trucks go through narrow little two way highways
- Could be 70 round trip truck trips each day
- They've done a draft for an environmental impact report
- There will be a hearing that gets to decide whether they approve the project
- Affects climate change and safety
- Legal concerns if it meets california act
- Research done previously on climate change and oil spill impacts from trucking
- Want to inform decision makers and the public

Questions

- Can you talk about interns and their role and training
 - Attorney at EDC, like to design project so more like factual data
 - Like finding data on oil spills
 - More research and a whole new document for the final environmental impact report
- How do you find the interns
 - Not sure where they do the postings
 - Can find that out
 - Train by sitting down in meetings
- Can you elaborate how the money from Get oil Out would help
 - 100s of pages and don't charge a lot for their time so doesn't cover
- Is there a timeline for this project?
 - Estimate is this march so hearing should come out in april
 - Appeal to board of supervisors
 - Intern would be just through the fact finding process
 - Interns will be there for testimony for hearing
- Interns engaged and close?
 - Yes, office is open door policy and share updates on case and have more formal meetings

Board Discussion:

- Same structure as last year, provide really wonderful internship experiences
- like that they present findings and public speaking
- EDC always requests \$10,000 for part of internships and part staff
- Really need support for staff time and can't just get interns funded

MOTION/SECOND: Mike/Karen

Motion language: Motion to table WIN 20-03 until a future date

ACTION: Consent

Additional approval required: YES (Senate)

ADJOURNMENT AT (time)

MOTION/SECOND: Jeremy/Laura

Motion language: Motion to adjourn at 8:44 PM

ACTION: Consent

Additional approval required: NO