



## COASTAL FUND MINUTES

Associated Students

Tuesday, 02/18/2020, Nati Conference Room

**CALL TO ORDER:** 6:05 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 Fukuda 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	present
Phoebe Racine Graduate Student Rep	present	Emma Swanson Senate Liaison	present
Laura Ingulsrud Graduate Student Rep	present		

### B. COMMITTEE BUSINESS

#### 1. Approval of Attendance and Proxies

**MOTION/SECOND:** Jeremy/Karen

*Motion language: Motion to approve attendance and proxies.*

**ACTION:** consent

*Additional approval required: YES (Senate)*

#### 2. Approval of Minutes

**MOTION/SECOND:** Jeremy/Laura

*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)

- full strike for cola on thursday
- quantum computing lab

### **D. REPORTS**

#### **1. Advisor Report: Siedschlag**

- i. we overspent last quarter
- ii. we don't want a lot rollover but don't want to get rid of it completely
- iii. have to spend at least 132,000 for no rollover but 140,000 would get rid of rollover in about five years
- iv. probably going to be more grants in the spring
- v. got the master workbook up in the week 9 folder
  - 1. next tuesday is super tuesday so vote before coming in

#### **2. Chair Report: Francoeur**

- i. honoraria open until thursday

#### **3. Vice Chair Report: Martin**

- i. no report

#### **4. Senate Report: Sway and Swanson**

- i. voting on resolution on the cola strike
- ii. working on assigning a group senate project

#### **5. Administrative Report: Stewart**

- i. minor grants available in week 9

#### **6. Coastal Service Program Report: Stewart**

- i. no report

#### **7. Outreach and Education Report: Patel and Fukuda**

- i. 25 applications for outreach
- ii. follow up questions for concert for the coast

#### **8. Sub-Committee Reports**

- i. NRS scholarships
  - 1. email marion get her feedback
- ii. Long-term Funding/ Pre-Screening Application
  - 1. Phoebe made some edits in the comment section
    - a. Mike will look over suggestions
  - 2. making sure it's clear between one year and three years difference

- a. at first make it invite only or making it clear that it is not just for anyone to apply for
      - i. telling them to be more explicit on their success question
        - 1. people will explain their project but not explain their budget
  - iii. Board Member Interviews
    - 1. gotten 6 applications for Karen's spot
    - 2. Mike is departing after spring
      - a. combine interviews and applications

## **E. AGENDA**

### **1. Approval of Agenda/Additions to Agenda**

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

*Motion language: Jeremy/Mike*

*ACTION: consent*

*Additional approval required: YES (Senate)*

## **F. OLD BUSINESS**

## **G. NEW BUSINESS**

Fall 19-19 Reallocation Request: Identifying native seeds in the seed bank through DNA and RNA extractions

*MOTION/SECOND: Jeremy/Jackie*

*Motion language: Motion to approve FALL 19-19 Reallocation Request*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

## **H. DISCUSSION**

## **I. PROJECT REVIEW**

Project Title: WIN 20-16 : Microfiber Mitigation

Sponsoring Organization: UCSB Environmental Studies

Presenter Name: Ryan Clarke

Summary:

Synthetic microfiber pollution has the potential to become one of the biggest threats to our water supply, but hardly anything is being done about it. My project aims to change this through integrating a

solution alongside education about microfiber pollution. The funding I would receive from the grant would be used to purchase either Cora Balls or Guppyfriend bags depending on the results of an independent usage study that I will conduct while this grant is being evaluated. The grant money is needed to purchase microfiber catching devices to service the 78 washing machines on campus. I will also design informational posters to be displayed in the laundry room of each residence hall which will educate the freshmen population about microfibers and the harm they pose to the environment. This program will also empower students by creating leadership positions, called microfiber ambassadors, to help oversee the implementation and maintenance of this program in the dorms.

#### Presentation Notes:

- Have studied serotonin before
- Clas tutor for organic biology
- Want to educate through dorms
- Tiny plastic fibers that come off in the was hare microfibers
- Hasn't been a problem historically because we have not had synthetic clothes
- Microfibers bioaccumulate
- Huge problems in filter feeders-muscle, clams,
- Huge problem in pollution,
- Ucsd marine bio- hydrophobic aggregates in ocean
- Problem is huge but nothing is being done
- Three ways mitigation can be done
- Stop buying polyester clothing
- Second option is to add something to machine but ucsb rents
- Third option is to use guppybags and coroball
- Fibers are released in every waste
- Education will help this spread if they can use devices for free in ucsb
- Use corbal like a tide pod
- Coraball is only 26% effective
- Guppyfriend bag was tested at ucsb
- Put synthetic clothes in bag, it will reduce friction and catch microfibers
- Bag is 95% effective
- Is going to run a study- santa cruz and anacapa are close in size
- Santa cruz will use guppy bags and anacapa will use the coraballs
- Wanted to find out which one people are using
- If people are using them that would be great
- Didn't think it would be a problem, had to be approved by a bunch of people but it is now 100% a go
- Will collect data until the coastal fund grants money
- Its for people to rent it out at the front desk

#### Board Questions:

- Do you know why water treatment plants don't catch the microfibers
  - They are catching them, the issue is that they are too small
  - Humans didn't understand how small it could be
  - Single wash-250,000 fibers
  - About 70% is caught at wastewater plants

- 30% is going into oceans
- Unleashing project tomorrow but applying to grant now, how do you plan to adjust from initial pilot
  - Pilot will tell him which to use, help with communication
  - In 2022 cycle, california state has a bill that would force all uc's to have uv filters
  - Could still use coraballs and would eventually be given so that others can
- Have you considered putting a qr code
  - You can, glossy posters sometimes have trouble with qr codes
  - Wanted to create his own poster
- Going to make microfiber ambassador
  - Will pick two ambassadors from each dorm that would be the contact for that dorm
  - Will empower freshmen
- It says that coraballs will take lint, will the desk attendant do that
  - Its better to put it into a plastic bag and throw it away then just
- Are you going to run your your project long enough for them to use it multiple time
  - Pilot is geared to run indefinitely
  - People won't have an option between the two
- Are both the washing machines the same
  - Half side loading/ have top loading
  - Side washing ones are better for the environment
  - Hope is that only synthetic bags will be used in there
  - The desk attendants are going to help monitor
  - did not say that you take your clothes out for the dryer
- How much are the uv filters
  - Buying is \$127 but you have to pay someone to install
  - Completely thoughtless after you instal and monitor
  - It's a modification to the washing machine
- Is there going to be something that talks about synthetic vs cotton
  - He is hoping desk attendants
- Whats the time line on the reusable aspect
  - Pretty much indefinite use product
  - A lot of people washing everyday
  - Don't know how long it lasts
  - Won't do anything with funding until the pilot is over
  - Education project discount

#### Board Discussion:

- Spoke really well
- Natural fibers do affect the environment but
- Sounds like he is doing a great job with a lot of work
- Think it would be good to get a communication intern
- Think its cool that he gets to be a pi for it
- Think they could do better with the poster
- Think it could be an impactful project

*MOTION/SECOND: Jeremy/Mike*

*Motion language: Motion to table discussion on WIN 20-16*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

Project Title: WIN 20-17 : Greenhouse Gas Fluxes of an Intermittently Tidal Salt Marsh

Sponsoring Organization: UCSB Earth Research Institute

Presenter Name: Derek Pagenkopp

Summary:

This project will characterize greenhouse gas (GHG) fluxes and the environmental and soil characteristics of a natural, relatively undisturbed coastal salt marsh and a newly created coastal salt marsh undergoing active restoration. The results from this study will guide management decisions to preserve and enhance these important transitional habitats that support high levels of biodiversity, protect against coastal erosion, and sequester large amounts of carbon. Future researchers will be able to utilize this previously uncharacterized information about GHG fluxes and environmental characteristics to aid their studies and make more accurate models and predictions about GHG flux rates and environmental factors affecting these fluxes. I am requesting funding to provide hourly wages for undergraduate student research interns to assist with field and laboratory work, and to purchase equipment that will facilitate the collection of more robust greenhouse gas data on future projects.

Presentation Notes:

- Measuring green house gasses, soil, environmental characteristics
- Measuring at ncos, whittier parcel, coal oil point, end point
- Different places used to represent different things
- Want to see what individual effects these environmental characteristics affect greenhouse gasses
- Looking at restoration of ncos and how that is different
- Ncos is a pretty massive restoration project
- Weeding invasive species, active hands on project
- Want to see if the restoration affects the green house gasses
- What are the greenhouse gas fluxes, divide into three seasons here, overall yearly budget, how this restoration is more beneficial than other restoration project
- Asking money for undergraduate research assistants- seven right now
- Task list on back of handout
- Wet season is shorter than dry season in california
- To collect gas samples, they collect 28 samples with different groups
- Have s/7 people out there that are working a full 8 hour day
- Analyzing samples in the lab
- 85 hours of work every week

- Lots of management of undergrads
- Being able to obtain students through hourly wage has been one of the best ways of getting them to work
- Having students who are trained and reoccurring has been essential to collecting a lot of data
- Have to analyze each gas on a different machine, trying to get achine that can test all three but don't have it right now
- Three different undergrads working on different labs need 1-2 students processing soils
- Can't train student very much so it helps that they are reoccurring
- Right now when we go out to the field they can collect gasses at different minutes, but someone has to go around and sample themselves, so he wants to develop flux cases so it would be a machine that would sample at predetermined time
- Can get a wider range of time samples
- Would be for future projects but would help them now to get a larger spatial study design and get more robust data
- Was planning to get intern in here but she has food poisoning so she can't come in
- Intern is a sophomore now
- She didn't know what she wanted to do, but now she wants to do research and get her phd
- Will help her get into grad school
- Get them involved in the whole process of research behind the scenes to prepare
- Just got into mcnaairs scholar program
- Want to provide to students more opportunities
- Providing hourly wage would be helpful so that they can afford to do the project
- Make priority to support them in whatever they do

#### Board Questions:

- Is this your main phd program
  - This is for his masters, but he worked with project last year because he worked at ccber
- Do you foresee this project being long term
  - This project is going to wrap up but he wants to study this for his phd
  - Hopes to inform future restoration projects how to return to natural state as quickly as possible
- Requesting funding for a couple of students, is the mcnaair scholar going to be getting funding for this
  - Assume she will switch to mcnaair for this grant after
- How are you going to find undergrads that want to work 15 hours a week
  - Like to keep on as many students as possible- a lot are first year students
  - Go to undergraduate advisor for those who reached out to her
  - Want to find people who are interested in this research project
  - Seek recommendations
  - They recruit in the advertisements who have friday off
  - Friday and saturday are pretty much completely full
- What about the characteristics are you able to change, and what would you recommend
  - Mulch, nitrogen, organic matter can be added to soil
  - Is being studied at ncos, but looking at different effects of biochar mixes etc.
- Are geography interns plotting the points on gsi? Why are you using geography majors
  - There are different kind of geography majors

- He thinks it fits inside the spatial analysis majors
- If they were to reach out they would reach out to environmental studies majors
- Are you looking for model relationships
  - The amount of spatial variability is a lot
  - Trying to determine a lot of multi-variable questions
  - Its going to try to reinforce current models and make predictions

Board Discussion:

- Love how its a lot of money for interns but not much for supplies
- Sounds like he knows what he is doing
- He answered all questions
- Like the way he talked about interns

*MOTION/SECOND: Jeremy/ Karen*

*Motion language: Motion to table discussion on WIN 20-17*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

Project Title: WIN 20-12 : Reefcheck California

Sponsoring Organization: Reef Check Foundation

Presenter Name: Jan Freiwald

Summary:

Reef Check California (RCCA) is a community-based monitoring program dedicated to conserving California's rocky reef ecosystem. At UCSB, RCCA trains students in subtidal monitoring protocols. Students then participate in RCCA's annual surveys at the Channel Islands and throughout southern California. The students' data are used by the Ocean Protection Council (OPC), the Department of Fish and Wildlife and by leading marine scientists to inform the management of marine protected areas in southern California. Funds will support two interns, scuba instructor and survey costs, providing UCSB students with increased opportunities for immersion learning, field experience, and active engagement in the marine management processes in California.

Presentation Notes:

- Karen and Mike recuse themselves
- Reefcheck started 12 years ago, originally created to asses coral reefs and the coral bleaching
- Engage community to collect data and it is happening world wide
- Using reef check data all around the world
- Similar to pcso
- We don't count everything



- Narrow it down that volunteers can find species
- Train divers to go out there and monitor reefs inside and outside mpa's
- CF allows them to be involved with ucsb scientific divers
- A lot of times this is the first time student use science underwater
- Money helps people to get certified
- Get money from the state for some of projects
- Relationship with ucsb is huge, to disseminate data
- More they talk about it, the more they learn and educate the community and public
- Part of santa barbara collaborative- have people who have found white abalone
- Which is important for conservation of california coast
- They did the earth day last year, do stuff at AOP, working with natural history museum
- They have been able to have two interns and they learn a lot

#### Board Questions:

- Can you talk more about internships specifically
  - Work closely with pcso, hired two interns-one who is 60
  - Were divers here in the dive club, started with volunteers and then became interns
  - No average day for intern
  - They were recently redoing whole photo database, Renamed everything
  - Creating material for social media
  - Work independently unless in the field
  - Lot of coffee meetings and emails but mostly independent
- Other funding doesn't include surveys
  - Yes, they work with pisco to do all of the sites since they do it historically and it covers a wider area
- Can you elaborate more on the trips
  - Refugio they do twice a year- last time they were they are they saw a white shark
  - Really important for when the oil spill happened
  - Reefcheck does the channel islands with three days overnight- they do santa cruz, santa rosa, and anacapa
- How do you pick who gets to go on trips
  - Try to handpick citizen scientists
  - When you go through reef check, they get assessed to see what they are best at identifying
  - If there is a limit of people, they will get 6 fish divers and then the rest will fill in
  - Every year, one day recertification
  - They get good people out
  - Informing people of protocol changes made
  - Not average diver, like diving with a purpose and like working under water
  - Get funding to have interns and have relationship with ucs is very helpful
- Do you look at artificial reefs off of oil platforms
  - They do not, but another group does do that
  - 56 temp loggers and 2 sensors in southern california
  - Project can inform management and work with public

- Do you use data for research
  - Yes it is used in different research
  - Used data to shut down abalone fishery
  - Reefcheck is able to use community and let people know what's going on

Board Discussion:

- Lots of energy
- Seems like a good example for long term funding
- Just manage the volunteers
- Not her style of talking to describe how many hours
- Will be hard to cut
- Seems to need boat money- could cut one intern

*MOTION/SECOND: Jeremy/ Phoebe*

*Motion language: Motion to table discussion on WIN 20-12*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

**ADJOURNMENT AT (time)**

*MOTION/SECOND: Motion to adjourn at 8:55 PM*

*Motion language: Jeremy/ Jackie*

*ACTION: Consent*

*Additional approval required: NO*