## ASsquare_logo.tif Coastal Fund Agenda

## Associated Students

Tuesday, 5/9/17, Nati Conference Room

**CALL TO ORDER** 6:03pm by Tristen, minutes recorded by Annalise

1. **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) |
| **Tristen Thron**  **Chair** | **Present** | **Alejandra Posada**  **Outreach Coordinator** | **Present** |
| **Stephen Fetterly**  **Co-Chair** | **Present** | **Maya Normandi**  **Outreach Coordinator** | **Present** |
| **Matias Eusterbrock**  **Undergraduate Rep** | **Present** | **Peter Min**  **Outreach Coordinator** | **Present** |
| **Daniel Charette**  **Undergraduate Rep** | **Present** | **An Nguyen**  **Outreach Coordinator** | **Absent (excused)** |
| **Esha Suri**  **Undergraduate Rep** | **Present** | **Annalise DiSanto**  **Administrative Assist** | **Present** |
| **Isabella Marill**  **Graduate Student Rep** | **Present** | **Alex Giolito**  **Senate Liaison** | **Absent** |
| **Courtney Thomas**  **Graduate Student Rep** | **Present** | **Sarah Siedschlag**  **Advisor** | **Present** |

1. **COMMITTEE BUSINESS**
2. **Approval of Attendance and Proxies**

*MOTION/SECOND: Tristen/Courtney*

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

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **Approval of Minutes**

*MOTION/SECOND: Tristen/Esha*

*Motion language: Motion to approve the minutes from last week*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **PUBLIC FORUM**

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

1. **REPORTS**
   1. **Advisor Report: Siedschlag**

* **Talked to EDC yesterday - have some modifications to their project - will be reviewing on the 16th**
  + **changes in the process, so submitting an update to their proposal**
* **Two new admin assistants - coming to next meeting**
* **Community Environmental Council - want to collab with AS - need CF rep for brainstorming session - May 16th, 2-3pm in CF office (Tuesday)**
  + **Bellaaaaaaa**
  1. **Chair Report: Thron**

**-New board member, Alana**

**-Still interviewing for undergraduate board members**

* 1. **Senate Report**
* **MIA**
  1. **Administrative Report: Di Santo**
  2. **Coastal Service Program Report: Di Santo**
  3. **Outreach and Education Report: Normandi and Posada**
* **TGIF event - Friday - will plan carpools**
* **Planning a retreat - sunset picnic - next Wednesday plus Zodo’s**
  + **dinner at 6:30pm - at Sea Lookout Park maybe**
  + **meeting at 7:00pm**
  + **bus to Zodo’s at 9:00pm**
  + **food from hiwi**
  1. **Sub-Committee Reports**
* started looking at Funding Guidelines on website - need improvements

1. **AGENDA**
2. **Approval of Agenda/Additions to Agenda**

*MOTION/SECOND: Tristen/Courtney*

*Motion language: Motion to approve the agenda and additions*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **OLD BUSINESS**
2. **(item)**

*MOTION/SECOND: (name)/(name)*

*Motion language:*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **NEW BUSINESS**
2. **Extension Request: SPR 16-26**

*MOTION/SECOND: Daniel/Bella*

*Motion language: Motion to approve spring 16-26 extension request*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

**2. Approve $170 more for Coastal Fund Gala**

* **Make signage for server plate about crab**
* **Add it to the menu/program**

*MOTION/SECOND: Tristen/Courtney*

*Motion language: Motion to approve an additional 170 dollars for the coastal fund gala*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

**3. Approve $360 for retreat food**

*MOTION/SECOND: Tristen/*

*Stephen*

*Motion language: Motion to approve 360 dollars for retreat food*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **DISCUSSION**
2. **Film screening?**

* **Went to the screening of Gaviota: The End of Southern California**
* **Film is great**
* **Would love to do a screening on campus - in the fall**
* **Q&A with filmmaker, staff, Gaviota conservancy**
* **IV theater would be a good location**
* **Janet Koedi - Gaviota Coast Conservancy**

**2) Small emergency grant for food - Fossil free**

* **Divest from Fossil Fuels Sit-In**
* **Doesn’t really connect to mission**

1. **PROJECT REVIEW**

Project Title: SPR 17-12 (Competition Between Chaparral Obligate Seeder Shrubs and Invasive Grasses)

Sponsoring Organization: UCSB Environmental Studies

Presenter Name: Shane Dewees

Summary: I am requesting funding for a research project investigating the competitive effects of

invasive annual grasses on the successful recruitment of obligate seeding chaparral shrub

species (obligate seeders). Specifically, I will research how differing densities and

species of invasive annual grasses affect germination and seedling mortality of obligate

seeders. Understanding the dynamics of this competition can aid in developing more

successful restoration strategies in invaded chaparral habitats. The requested funding is

for supplies needed to carry out the experiment (e.g., potting soil, seeds, seedling trays)

and compensation for an undergraduate student worker (i.e., myself). I will be executing

this project, with oversight from Dr. Carla D’Antonio (UCSB EEMB and Environmental

Studies professor and researcher) and Stephanie Ma (Graduate Student in the D’Antonio

lab). Through completion of this project, I will gain invaluable greenhouse and laboratory

experience necessary for my future career goals.

Presentation Notes:

* Competition between chaparral shrubs and grasses
* Shrubs have strategies to survive fires
* Obligate seeders are especially important
* Can quickly adapt to environmental changes b/c of sexual reproduction
* More frequent fires = less recovery time
  + grasses have higher competitive impact - but haven’t completely dominated shrubs
  + obligate seeders still dominant
* Three main questions - performing several greenhouse experiments to answer these questions
* Density trials - obligate seeders at three different densities
* Three different obligate seeder species
* Germination timing trials
* Density trials starting in July, Timing trials in August, Analyzing data in September
* Hopes to establish more effective restoration techniques
* We are losing large portions of obligate seeder chaparrals - lost approx 65% in these counties since 1964
* Providing multiple educational experiences for UCSB students and surrounding Santa Barbara Community
* Will share findings with CCBER and SB Botanical Gardens and US Forestry Service

Board Questions:

* Who are your mentors in this process? How much time will you be working with them?
  + Stephanie Ma and Carla D’Antonio in EEMB - both are mentoring him - meeting with Stephanie once a week
* Are you planning on writing a paper?
  + Yes - would like to publish a scientific paper
* Could you describe the educational experiences you mentioned?
  + Setting up trials takes a lot of time
  + Need to set up 200-300 trails, so two main undergrads will be planting seeds, germinating seeds, watering, etc.
* What is your personal timeline?
  + Graduating at end of this quarter, but extending student status to September
* Are you going to manipulate the grass seeds to simulate the fire?
  + Because of the timeline/scope of project, won’t be doing fire treatments to grass seeds - since fire would only harm the grass seeds - so that would be overestimating the competition
* Do you know what you’ll be doing in the fall?
  + No concrete plans - main hopes are to TA for ES program or to stay on D’Antonio lab as research assistant
* Are you working on Stephanie’s project now?
  + Yes - in the next few years she is hoping to work with more obligate seeder species

Board Discussion:

* He seems highly motivated
* Sounds like a great project

*MOTION/SECOND: Tristen/Bella*

*Motion language: Motion to table discussion on spring 17-12 with intent to fund in full*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

Project Title: SPR 17-13 (Consumer-mediated nutrient cycling in kelp forests…)

Sponsoring Organization: UCSB MSI (SBC-LTER)

Presenter Name: Joey Peters

Summary: We are requesting major funding from the Coastal Fund to investigate the

mechanisms behind nutrient recycling among temperate reef invertebrates and how these

consumer excretions may contribute to M. pyrifera growth and production. We will

determine excretion rates of benthic invertebrate consumers by conducting a series of

field and mesocosom experiments. We will also determine whether consumer excretions

facilitate M. pyrifera growth and production with transplant experiments in the field. We

will pair the data from these field experiments with time series data collected by the

Santa Barbara Coastal Long-term Ecological Research (SBC-LTER) group, enabling us

to answer questions about changes in recycled nutrients with respect to season, wave

disturbance, and temperature anomalies such as El Niño.

Presentation Notes:

* 1st year phd student EEMB
* Kelp forest nutrient cycling - abiotic process - upwelling is believed to be the primary source of production that fuels the channel
* But - this is not enough nitrogen to fuel production in these forests
* Since we are in a drought - nitrogen is lower than we would expect
* There is ammonium and urea in the kelp forests, but not sure where it is coming from
* Looking at how consumers produce the nitrogen that they need to survive here when there are low levels of nitrogen
* Different sites have different assemblages of species - want to make sure the project is targeting the top consumers
* Urchins and clams make up a lot of the biomass
* Proposed project: isolate the water chemistry around the consumers to measure nitrogen levels
* Mesocosm experiment - tease out issues of working in the field
  + change water in the lab to assess the water chemistry
* Envisioned this as an undergraduate project for students who don’t have diving experiments
* Can apply this data to LTER data sets
* Would fill in data gap - could apply it to find trends with respect to climate change and wave disturbance

Board Questions:

* Nitrogen production could be site specific, but they don’t know that yet. The two separate projects together could help them answer that.
* Are fish not a big enough group of consumers to have a role?
  + Focusing on invertebrates because makeup majority of biomass
  + Also more feasible
* Do you have an estimate of the contribution of those fish from literature?
  + One author in the 80s who did some work off of Catalina island - inverts give off more nitrogenous waste than the fish themselves - based off of per gram estimate
  + Blacksmith fish - give off a lot of nitrogen at a given time
* Do you know how you’ll recruit the undergrad you would work with?
  + Have 3-4 students already interested
  + Advertise it to students who are interested in the project
  + Announcement on listserve
* What areas are going to be used to measure the kelp growth rates without consumers?
  + Take areas with low densities of consumers and also do a transplant of kelp where there are no consumers
  + May have to clear some inverts away
  + Will require routine removal
* How would you go about finding those areas?
  + Have some areas they routinely survey already with SBC
  + Routinely clear of kelp
* When the nitrogen levels fall below the dotted line, does the kelp stop growing or does it die if its kept below?
  + Start to senesce, some die off
  + Seasonal adaptations - kelp tries to grow as fast as possible when nutrients are available
* Will the chamber impact the invertebrate growth/production?
  + No measurement will be without some error
  + Some artifact of stress of the chamber
  + Pairing with the mesocosms to give the consumers time to acclimate to the stress
* Could you talk more broadly about the impact of this research? Why is this important to you?
  + Traditional view of kelp forest production is envisioned without any other life
  + MPAs have way more diversity than other sites - what does that do to benefit the kelps themselves
* What are your long term goals for this project?
  + Look at the fish component
  + Would like to look at the excretions from the animals in the canopy - where most of the kelp is
  + Collaborating with other students looking at zooplankton
  + Would like to look at endophytes and how they benefit the kelp as well

Board Discussion:

* Seems like a great project
* Great implications for conservation

*MOTION/SECOND: Tristen/Bella*

*Motion language: Motion to table discussion for spring 17-13 with intent to fund in full*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

Project Title: SPR 17-14 (Educational Signage)

Sponsoring Organization: IV Parks and Rec

Presenter Name: Rodney Gould

Summary: The Isla Vista Recreation and Parks District is requesting funding for educational signage in order to educate Isla Vista residents, including students, about the sensitivity of vernal pools and other

spaces native to the Chumash tribe. We intend to replace existing signage about the vernal pools

that have deteriorated over the years, and to install new signage about Chumash land and history.

Presentation Notes:

* IVRPD established 1972 - protecting and managing parks and open spaces in Isla Vista
* Requesting funding for new and replacement educational signage - replace current signage for vernal pools
* 10 signs - includes information/history of vernal pools
* More than 90% of vernal pools have been destroyed
* Definitions, watershed awareness, unique flora and fauna
* Allow for more community understanding
* New signs: working with Chumash Elders for cultural signs
* Coastal Fund was a part of the funding for previous signs

Board Questions:

* What year were the old signs from?
  + 2009 - signs are peeling, color is fading
  + Using same manufacturer as before
* Signs last 5-7 years
* Where will the new signs be placed?
  + Have Chumash signs on west side of Isla Vista - would like to add two more to the existing two
* Do you have an idea of what topics would be on the signs?
  + What the Chumash used that space for (where the sign is place)
  + Defining Ansqoyo park - name came from Chumash
* All the signs will require a new base? Have they rusted away?
  + Not sure
* Have you started talking to the Chumash elders? What do they want to include?
  + Spoken to one of the elders - conversations have solely been about the first steps so far
* Who would be designing the new signs?
  + Us - grants committee
* What is your timeline for these signs?
  + Remembrance Ceremony in two weeks - opportunity to continue dialogue
  + Foresee that they will solidify the information by the end of June
* Do you get any feedback about the current signage?
  + Have not requested public feedback
  + Planning public outreach for new signs
* Do the signs get a lot of traffic?
  + The ones near FT and near the bluffs do get many people walking by
* How is IV Parks related to UCSB?
  + IVRPD is an independent agency from UCSB - but collaborate with university through student orgs
  + Government agency

Board Discussion:

* Sounds like a really cool project
* Have some questions we need to follow up on

*MOTION/SECOND: Courtney/Bella*

*Motion language: Motion to table spring 17-14 with potential cuts*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

**ADJOURNMENT AT (time)**

*MOTION/SECOND: Tristen/Daniel*

*Motion language: Motion to adjourn the meeting at 8:44pm*

*ACTION: Consent*

*Additional approval required: NO*