## ASsquare_logo.tif Coastal Fund Agenda

## Associated Students

Tuesday, 05/14/19, Nati Conference Room

**CALL TO ORDER** 6:05 by Jeremy, minutes recorded by Emily and Rebecca

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) |
| **Lauren Enright**  **Chair** | **Present** | **Jem Unger Hicks**  **Outreach Coordinator** | **Present** |
| **Jeremy Francoeur**  **Vice-Chair** | **Present** | **An Nguyen**  **Outreach Coordinator** | **Present** |
| **Kate Mcleod**  **Undergraduate Rep** | **Present** | **Sarah Siedschlag**  **Advisor** | **Present** |
| **Cyrus Kayhan**  **Undergraduate Rep** | **Present** | **Rebecca Nishide**  **Administrative Assist** | **Present** |
| **Juliette Verstaen**  **Graduate Student Rep** | **Present** | **Emily Orr**  **Administrative Assist** | **Present** |
| **Alana Ayasse**  **Graduate Student Rep** | **Present** | **Alex Funk**  **Senate Liaison** |  |
|  |  | **Alli Adam**  **Senate Liaison** |  |

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

*MOTION/SECOND: Jeremy/Alana*

*Motion language: Motion to approve attendance and proxies*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **Approval of Minutes**

*MOTION/SECOND: Jeremy/Cyrus*

*Motion language: Motion to approve the minutes*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **PUBLIC FORUM**

* decent amount of people at the concert for the coast
  + said they were donating to EDC to protect gaviota coast
  + did not seem that there was much of an educational component
* TGIF: Jem did a good job presenting about Coastal Fund

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

* Honoraria closed last week
* Board member application due tomorrow
  1. **Chair Report: Enright**
* NA
  1. **Senate Report: Funk & Adam**
* NA
  1. **Administrative Report: Nishide**
* Updated budget from Laura, Manzanita trees project
  + added a few couple hundred dollars
* received a couple of minor grants, due date is Friday
  + Monday of next week: all minor grants should be in folder
  1. **Coastal Service Program Report: Orr**
* going good
* another Lime out of the ocean
  1. **Outreach and Education Report: Unger Hicks & Nguyen**
* Site visit last week with Leopard Shark survey:
  + counts leopard sharks from drone videos, most she counted was 300 in one survey
* Gala: May 31st at 5 PM
  + everyone should show up early at like 4:30
  + Kate and Cyrus can’t come due to family events
  1. **Sub-Committee Reports**
* Cyrus and Juliette met on Thursday
* will meet more to discuss this Thursday
* Sarah: need to write a letter about how this relates to Coastal Fund mission, making sure it doesn’t become bigger and eternal
* need to get information from jordan
* Board member applications due tomorrow
  + Jeremy, Cyrus, and Juliette will meet this Friday
  + Kate will help out in following weeks
  + separating graduate and undergraduate applicants

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

*MOTION/SECOND: Jeremy/Juliette*

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

*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. **(item)**

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

*Motion language:*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **(item)**

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

*Motion language:*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **DISCUSSION**
   1. (first item)
2. **PROJECT REVIEW**

Project Title: SPR 19-13 REEFunds for Undergrads

Sponsoring Organization:

Presenter Name:

Summary:

Presentation Notes:

* Brought students in who work at the reef
  + One going to TFA
  + One going to washington to work at marine mammal academy
  + To show why intern program deserves support
* TFA student: worked at the reef for 3 years, helped her grow professionally
  + Wouldn't be doing TFA if it were not for reef, learned a lot about science education
  + Moving to connecticut to teach middle or elementary school
  + Helped with confidence
* Washington student: helped her with research
  + Working on research project with remotely operated vehicles, down 12000 feet to explore ocean floor
  + Found hydrothermal vents that had never been seen before
  + First real experience doing research
  + Helped her realize how much she loves research, inspired her to work in research labs
    - Working with shark scales
  + All of her UCSB experiences have springboarded off from the reef, and taught her about science education and communication
  + Marine mammal academy: working at a summer camp teaching kids who aren’t usually excited about ocean
* Mission of reef: science communication/increasing science literacy in young people is really important to change how society thinks
  + A lot of kids in SB have not even been to the beach before
  + Opportunity for kids to visit REEF is really important
* REEF: Serve as a pathway to research opportunities
  + Someone else doing MCR
* Once a year there is education program to leverage reef
  + Bring kids from Pasadena
* Service area from king city to san diego to sedona (AZ), Japan, Taiwan
* Anshika currently doing social media, they are asking for funding for this position
  + Good way to bridge gap to people who can’t actually come to REEF
  + Social media is pathway for people to ask about what they’re finding on the beach
  + Good way to increase science communication
  + Kids use parent’s facebook to message the REEF to talk to kids about their science projects
  + Just started “REEFlections” symposium
    - Undergrads that work at reef that also work in lab will be presenting
* Is very passionate about this program

Board Questions:

* If you had to prioritize your top two internships?
  + Right and left hand is lead aquarist and program coordinator
  + Numbers 1 and 3 on the budget
  + Wants to strongly urge that we consider more than that
  + Have 30 undergrads they pay for with other funding
* Operation as a whole? Expanding or changing?
  + Little bit of both
  + Received million dollar gift from Betty Wells (?), argued for funds for the undergrads
    - Philanthropist was very specific that it couldn’t go to undergrads
    - Improving IT capacity and infrastructure
    - Something about three spots in the titanic
  + REEF has grown so it reflects that
    - * Only wild population of captive white abalone; now there is almost 600 in the REEF aline (2nd gen juvenile) need interns to take care of them
    - Just got about half a million larvae
      * Work and program continuing to expand
      * Looking at outplanning
  + Content coordinator position: developing school content, tailoring it to specific teachers and classes
    - Building students skills on a higher level
  + Tech intern: growing facility means growing tech needs
  + Research tank aquarist inter, right now it is a tropical tank highlighting work in moorea
    - LTR tank as well
* How do you recruit interns?
  + Every quarter, and as need occurs,
  + Long relationship with eric zimmerman in ES, he puts it out on listserv
  + Bio listserv
  + Post it on social media and go to the job fair
  + FSSP and orientation
  + Vast majority EEMB majors, aquatic bio
  + Some chem and engineering
  + Strive for diversity, want kids to know scientists come in all ages and races
  + All come in as volunteers, very few qualified for paid positions
  + Usually 2-4 quarters is what it takes for a paid position
  + Currently have 50 undergrads volunteering and interning at the reef
* Questions for us?
  + Is there a possibility for having a yearmark(?) for groups like CCBER and the REEF?
    - Told Scott about our long term funding plan
    - In brainstorm phase, is on our minds
  + Could we make a bigger ask with a proposal with collaboration with multiple of the groups that do outdoor education

Board Discussion:

*MOTION/SECOND: Alana/Kate*

*Motion language: Motion to table SPR 19-13*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

Project Title: SPR 19-19 Greenhouse Gas Fluxes of an Intermittently Tidal Salt Marsh

Sponsoring Organization:

Presenter Name:

Summary:

Presentation Notes:

* Cyrus is recusing himself because he is working on this project
* Starting grad school in fall in King group
* Comparing NCOS to COPR salt marsh to look at carbon
* Salt marshes have low CO2, NOx, CH4
  + Negative climatic forcing
* By measuring greenhouse gas fluxes, can make predictions about future restoration projects and conservation projects
  + What their gg emission will be
* Very little of this research being done here
  + Will help restoration projects get funded, need scientific background
* Salt marshes also protect against sea level rise and act as a buffer for large storms
  + High biodiversity
  + Filter water that gets to the ocean
* Field sampling, lab work, a lot of hours that add up
  + Sampling on weekly or biweekly basis
  + Every time they go sampling is 45 hours or more of work per week
  + Undergrads learn field skills, data organization and analysis, and laboratory skills
* He did his undergrad here, had to work 30 hours a week to pay for life
  + Wants to pay undergrads so they can work and get research experience
* Him and Jennifer King (?) will bring this into curriculum in courses
* Instrumentation to measure soil redox potential
* One measurement gives them a lot of information
* Need help studying at COPR
  + Currently working on a NCOS grant
  + Need help with lab and field supplies that are not funded

Board Questions:

* Do you currently have chambers at NCOS? Results?
  + Yes
  + Been working on gas chromatograph (?) for the past couple of months, trying to get this working
  + Something about detectors for field sampling
* What’s your hypothesis?
  + Expect methane production in freshwater systems
  + Sulfates in the soil
  + Bacteria that reduce sugars and produce methane, some eat sulfate (more energetically favorable), they outcompete the methane eating ones
  + Expecting to see low CO2 emission rates and low methane rates and low NO2 (?) rates
* How close do you expect the results between NCOS and COPR?
  + Can change on very small scale, going to be difficult to actually make flux calculations
  + NCOS might have a little more carbon dioxide, but it has less soil right now to produce methane, little more nitrous oxide (?)
* How long do you think you’ll be on the project?
  + Funded through NCOS restoration project
  + This is going to be his masters thesis
  + Doing the MA/PhD program
* Control sites?
  + Have four chambers in whittier parcel (non-native grassland) as a control site
  + Very difficult to make comparisons due to difference in elevation and soil moisture
  + Doesn’t align w project goals
* Recruiting interns?
  + Been working for CCBER since his first year, recruited first student intern there
  + Would recruit there first
  + Could offer positions through Jennifer King’s classes or FRAP
  + Looking for students they know will be good for this project
  + Last resort: listservs
* WIll the interns be returning?
  + Would like interns to stay on as long as possible
  + Goal: one student who stays on who could help him train students
* Which line items are essential? Which ones can you live without?
  + Essential: undergrads
  + That is most of the funding though
  + Best option would be to try to get one student to stay on for a long period of time, having money for at least one intern a quarter is going to be important
  + At least funding for students in summer and 2019-2020 year
  + First intern for summer and fall most important, second summer fall and winter, then redox equipment
* Redox equipment? What does that entail?
  + Soil ph meter and platinum electrodes
* Is that method standard?
  + Going to set up 5 or 6 redox probes for each elevation, meaning two readings per elevation
* What about plants growing? Increasing errors?
  + Those plants are part of the environment
  + Doing so many replicates and readings will provide enough data to make confident statements

Board Discussion:

*MOTION/SECOND: Alana/Juliette*

*Motion language: Motion to table SPR 19-19*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

Project Title: SPR 19-16 Adopt-a-Block

Sponsoring Organization:

Presenter Name:

Summary:

Presentation Notes:

* We’ve funded their internship for at least 3 or 4 years
* Nothing is really changing from last year’s grant
  + Use work study to subsidize labour cost, provides good opportunity
  + Do not know what work study allotment will be until aid letters are released
* Provides them with an extra set of hands in the office
  + District open six days a week, he works five days a week, because one day there is people coming in and nobody is running adopt a block
  + Saturday gets really busy
  + Need someone to man desk
* He handles all the admin and funding stuff
* Adopt a block sponsors 5000-6000 community service hours per week
* Working to put together education campaign, mostly being worked on by undergrad comm major who is already working at adopt a block
  + Draft comprehensive communication strategy
  + Want to continue with same intern to continue this project

Board Questions:

* What’s your adopt a block speil?
  + Usually remembers people, if they have been them before he just gives them their map and has them go
  + New: take them in the back, make sure they’re wearing closed toe shoes
    - tells them they’re grant funded, run through their whole schema
    - Explains that they have to quantify their data so they have to put the route number
    - Safety orientation
    - Defer anything hazardous
* How many years does the data go back? Anyone use it for research?
  + Once or twice a year someone asks
  + Data goes back pretty comprehensively 3 years
  + 2-3 years ago was tracking buckets and hours, since have been comprehensively tracking by street
* Once you receive trash, how do you separate
  + Compost is new one, on radar, do work with surfrider
    - Dont have the framework for compost
    - Operational issues: all sorts of contaminants
  + Recyclables: do their best
    - Hard to have individuals with bucksts split
  + Are not supposed to throw stuff away in public bins
  + Aren’t really public recycling bins in IV
  + Want to get 2 cubic yard recycling bin at their office
    - All sorts of office politics
  + Larger groups usually are able to segregate recyclables
  + Speaking of recycling; is that something we might be interested in looking at a proposal for
    - Probably run 1k-1.5k
    - Program funded largely through sanitary district
      * When it was first brought up off the ground, was funded by goleta west and UC, the UC stopped funding, they get some money from AS
      * No direct funding from county or UC
      * Goleta west has capped what they will provide
      * Been about 7 years since cap was enacted, but the costs of everything else are going up
* How does the weather affect volunteer hours/effectiveness
  + Rain means volunteering goes down quite a bit
    - Had to cancel a beach cleanup
    - Insurance makes them cancel if they rain
  + Around 12000 cigarette butts over winter
  + 1700-1800 hours usually in drought winters, this winter they got 1000 hours
  + Cancelled all but one surfrider beach cleans up

Board Discussion:

*MOTION/SECOND:Lauren/Juliette*

*Motion language: Motion to table SPR 19-16*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

Project Title: SPR 19-15 Goleta Watershed Protection and Creek Cleanup Program

Sponsoring Organization:

Presenter Name:

Summary:

Presentation Notes:

* Public interest environmental law firm to represent other non profits
  + Only org like that between LA and SF, staff of ten (4 are interns)
  + He was an undergrad here! Helped form santa barbara urban creeks council
* EDC: clean water, open space and wildlife, sb channel, climate and energy
  + Helped save elwood mesa
  + Douglas family preserve
  + Sedgwick ranch
  + Carp bluffs
  + Oil train 88
  + Puenta power plant
  + Offshore fracking against Trump right now - winning currently!
* Brought pictures ad statistics and the guide that he hands out
* Project description:
  + Cleaning our creeks
* Projects that sprung from creek cleanup
  + Law to protect
  + Master plan
* Intern led project, usually an ES major, for two quarters, make flyers, get supplies, lead small team of people on the creek clean ups, work with county, prepare a report at the end
* Getting intern involved with city council, developing case strategies
  + Will also be involved with master plan
* Average 18 volunteers, 791 lbs per clean up over 6 cleanups
  + Prior to each cleanup, they talk about geography, bio, land use, pollution sources, solutions, ect. Education
  + Total 4700 pounds (?) of trash
  + Go over protocol: hazardous waste
  + Go out with expert naturalists who lead the clean ups
  + After, discuss and map what they found and eat snacks and brainstorm
* Intern and brian will survey the creeks at figure out which is the worst area
  + Submit report to dpt fish and wildlife, city of sb, ect
* Creek protection ordinance: 100 foot set back between creek and any new developments
  + Will protect from run off, noise, etc
  + No real way to determine feasibility of set back distance
  + Issue is usually if it is economically feasible
* Went to hearing last week, the city council really likes the idea of creek protection ordinance
  + Providing language, is being received well.
* Budget: requesting 6600 from us
  + Partial request
  + 2400 for intern stipend (12/hour)
  + Other funders make up difference
    - Union bank and clif bar family foundation
* Consistent with mission:
  + Aquire creek property near riperian spaces to preserve
  + Education: go over watershed ecology
  + Access: give public access when they’re cleaning
  + Creeks often used for research
  + Restoration; making restorations for creek restoration

Board Questions:

* Do you all do work with any homeless shelters or social services to move people?
  + Biggest problem in terms of amount of litter
  + Trash generally gone down except at areas of homeless camps
  + Thought about setting up improved camps a little farther away, making them stewards of the creek
  + Creek and watershed management plan will hopefully tackle this
  + Will take a long term solution
* Do you think people are lying about the feasibility?
  + Yes, they did an assessment of every project approved
  + In every case, the buffer was reduced with no assessment
  + Developer said it wouldn’t pencil out for them at 100 feet
  + Example: one developer was doing a 35 foot setback, they brought it up to the city, then the city changed the EIR to be 35
  + Developer voluntarily moved it to over 100 ft after working w EDC?
* Point sources of pollution and how to create abatement measures. What techniques have you used and what has worked ?
  + Depends on problem
    - Pollution: report it to clean water agency
    - Cleared vegetation: plant native plants
  + Works with half a dozen agencies, just depends on whose jurisdiction it falls under
  + Report coming out in a month will encompass full range of solutions
* Will that report be open access?
  + Yes
* What are ways you’ve tried to get UCSB students involved?
  + Intern is portal to UCSB
  + Speak at classes post flyers, get volunteers
  + Faculty and CCBER people usually come out
  + COPR also sends volunteers

Board Discussion:

*MOTION/SECOND: Kate/Lauren*

*Motion language: Motion to table SPR 19-15*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

**ADJOURNMENT AT 8:58 PM**

*MOTION/SECOND: Lauren/Jeremey*

*Motion language: Motion to adjourn at 8:50 pm*

*ACTION: Consent*

*Additional approval required: NO*