## 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*