## ASsquare_logo.tif Coastal Fund Agenda

## Associated Students

Tuesday, 10/16/18, Nati Conference Room

**CALL TO ORDER** 6:03PM by Jordan, minutes recorded by Rebecca and Emily

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) |
| **Jordan Gallagher**  **Chair** | **Present** | **Jem Unger Hicks**  **Outreach Coordinator** | **Present** |
| **Maria McCausland**  **Co-Chair** | **Present** | **An Nguyen**  **Outreach Coordinator** | **Present** |
| **Lauren Enright**  **Undergraduate Rep** | **Present** | **Sarah Siedschlag**  **Advisor** | **Present** |
| **Angela Chu**  **Undergraduate Rep** | **Present** | **Rebecca Nishide**  **Administrative Assist** | **Present** |
| **Kate Mcleod**  **Undergraduate Rep** | **Present** | **Emily Orr**  **Administrative Assist** | **Present** |
| **Alana Ayasse**  **Graduate Student Rep** | **Present** | **Alex Funk**  **Senate Liaison** | **Present0** |
| **Juliette Verstaen**  **Graduate Student Rep** | **Present** | **Alli Adam**  **Senate Liaison** |  |

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

*MOTION/SECOND: Jordan/Alana*

*Motion language: Approve Attendance of Proxies*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **Approval of Minutes**

*MOTION/SECOND: Jordan/Maria*

*Motion language: Approval of minutes*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **PUBLIC FORUM**

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

Site Visits- Alana

* made a spreadsheet with proposed times/dates to show options
  + CCBER, NCOS, KIN, Surfwriter Creative Writing, Bob Keats, COPR, NatureTrack
  + Alana will put you in contact if you want to do a site visit
  + Nature Center offered private tour

Blue Horizons film access - Maria

* finalizing film, private link that we can email Maria for

SB Wild this Sunday - Outreach

* Los Padres Forest Watch, throwing event this Sunday and sent a co-sponsorship form

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

* Election going on right now, keeps going until minimum voter count hit
  1. **Chair Report: Gallagher**
     1. NCOS trail opening
* NCOS train opening was this weekend, got some hats
* They say thank you
  1. **Senate Report: Funk & Adam**
* loves the coast and wants to get a feel for what we do
* Wants more signs and work with MSI to make more educational/accessible/newer signs
  + we have a line item for special board initiated projects
  + not a ton of money
  + sign about leopard sharks would be good
* our lock in fee is $5.97 per student (AS Budget)
* We have a lot of money that we are not using
  1. **Administrative Report: Nishide**
* all grant applications in except the one we extended
* 16 major grants
* will get minor grants in 4 weeks
* 3 a week except for thanksgiving
  1. **Coastal Service Program Report: Orr**
* Have groups going out
  1. **Outreach and Education Report: Unger Hicks & Nguyen**
* Santa Barbara Wild Co-sponsorship
  + Santa Barbara Wild is this weekend
  + we want to be consistent on co-sponsorships in general, are in favor of funding this
    - value to community
    - good cause, we support Los Padres Forest Watch
    - thinking of giving a set amount
    - start subcommittee to talk about funding co-sponsorships
* working on updating brochure
* tabled at pardall carnival saturday
  1. **Sub-Committee Reports**

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

*MOTION/SECOND: Jordan/Maria*

*Motion language: Motion to approve agenda and additions to 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. **Santa Barbara Wild Co-Sponsorship**

*MOTION/SECOND: Alana/Juliette*

*Motion language: Motion to approve $1500 for the Santa Barbara Wild Co-sponsorship*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **SPR 18-21 Reallocation Request**

* Jordan and maria recused themselves
* Alana is ok with it, the way he initially wrote the budget is too detailed

*MOTION/SECOND: Alana/Alex*

*Motion language: Motion to approve Spring 18-21 Reallocation request.*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

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

**Fall 18-01: Native Tree Restoration and Maintenance at UCSB**

Sponsoring Organization: Your Children’s Trees at UCSB

Presenter Name: Cheryl Elgersma

Summary: The requested funding would be used to hire seven student interns for each term of the school year, four interns for the summer, and nine new interns to expand old and develop new tree walks over the course of the year. Interns are responsible for running tree care events every Saturday, where they plant native trees with volunteers from local organizations. Your Children&#39;s Trees also hosts approximately five science nights each quarter, where interns go to local elementary schools to teach students and their families about trees and the environment through educational and artistic activities. We are also requesting funding for the supplies necessary to plant and maintain the trees and

implement the tree walks.

Presentation Notes:

* Here since 2014, currently have 9 volunteer board members and 13 interns
* 5 intern stipends right now, but 13 want it
  + Difficult to decide who gets paid and who does not, primarily here for internship stipends
* Planting and maintaining until established
  + Takes years for trees to go
* Brought in year old sapling
  + It’s little and needs more maintenance, planting trees is just the beggining of work
* Trees are important to ecosystem, keeping waste from ocean
* Michelle: stressing maintaining trees
* Science Nights: teach kids about trees and stuff to get them interested in environment/science
* Interns gain problem solving skills and leadership skills
  + Interns lead student volunteers usually from UCSB
* Test seeds, plant seeds, transfer sizes to supply planting events
* Ken brought gopher basket- protects roots, plant with compost
* Intern jobs: Walking irrigation line, weeding, sometimes replanting them
* Work with CCBER, working on big NCOS project with volunteers
* Having funding from CAB for this quarter
  + Need intern funds
  + Materials like baskets and containers for trees
* Planted about 120 trees over winter and spring quarter of 2018
* About 180 trees per year projection
* About 9 or 10 per quarter, most orgs usually end up returning
* 1400 service hours over last two quarters
  + 451 volunteers just in winter and spring
* Interns are able to manage volunteers to plant the goal number of trees

Board Questions:

* Do you guys have high survivorship of trees?
  + We focus heavily on caring for trees after being planted
  + Irrigation systems on automatic with emitters, check on trees every time we go out, replace if they fail
* At the NCOS, how much equipment are you supplying rather than CCBER?
  + CCBER supplies land and water source, we are supplying all irrigation system, trees
* Where does the material come from (for Science Nights)?
  + Each organization has a room, students come with parents
  + Take species of trees from campus with microscopes, talk to parents about tree walk, have QR codes
* Do you do the tree walks with students, or do you just hand out the flyers?
  + Do not walk with, not guided tours
* What is the tree walk
  + Brochure designed based on trees on campus, can walk to each tree and scan QR code that is on tree that has info
  + Want people to use their own time, hang out with their family
  + Do when they want to/are interested
  + Not led by YCT staff
  + Unique to each elementary school
* Is there a way to document how many people are actually going on walks?
  + Probably is in a database somewhere, we do not have it right now
  + Parents seem to like it, could look into a tree walk intern to see how effective promotion is
* How much ecological education do you guys (the interns) get and where is it coming from?
  + Ken is board certified master arborist ect,, very knowledgeable !
  + He makes sure that things are technically correct, done right
  + Emphasize lifespan and impact of trees
* Of the trees planted in 2014, how many are still surviving? On irrigation still?
  + Different areas have different success rates
  + Plants on COPR are now in care of COPR but are doing well
    - COPR trees were not on irrigation, they handwatered
    - About 70-75% sucess rate
  + Do not have exact percentages on survival because of ownership
  + Currently have full access to NCOR
    - Success rate about 98-99% because of irrigation system
  + Can replant trees when they do not do well because they have a nursery
* Do you know the causes of unsuccessful trees?
  + Mostly due to irrigation
  + Planting with gopher baskets made sucess rate a lot better
  + Has done a lot of trial and error
    - Tried Saudi Arabian technique and it failed, only about 10% success rate
    - Now are more knowledgeable
* Are the interns going to be primarily for the nature walks or for planting trees?
  + More tree walk interns to make more advanced
  + Want to be a tree campus USA.. Some sort of certification based on budget
  + 7 interns to update/expand tree walks, rest of interns are tree care events and science nights
* Breakdown of how the three hours a week are filled? Especially during winter months where there isn’t planting?
  + Interns are required to do 10 events (30 hours)
  + There are additional tasks that can be done to make up hours if there are issues with weather (like in greenhouse)
    - Need to repot saplings into 5 gallon containers to be ready to plant in ground
  + Have interns sign up for time slots when they have time rather than assigned for higher participation
* How do you guys usually advertise these events?
  + Facebook, volunteer group listserv,
  + board member volunteer coordinator only job is outreach
  + Volunteer match; outside UCSB participation
  + Word of mouth
  + Usually have at least one group per weekend event
* Is there any part of the budget you could cut and still be successful, what would it be?
  + We really need funding for interns
  + With less money we do less work
  + Students are volunteering time and we are trying to make it more equitable
* How do you pick interns? Do you get a wide range of majors? How about volunteers
  + Nature of the internship is mostly ES majors
  + One board member is biopsych!
  + Get some mix of majors, but majority is ES majors due to basic understanding/background, interest
    - ES majors can take for one academic credit
    - Do not have enough funding to diversify interns
  + Volunteers are all across the board
* Are you at all in danger for running out of money?
  + Kens job
  + YCT is two organizations; campus org and nonprofit
  + Ken finds more resources for organization, finds money for truck, water trailer, storage

Board Discussion: Closed

*MOTION/SECOND: Jordan/Maria*

*Motion language:Motion to table FALL 18-01*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

**Fall 18-03: Data Analytics of the Monetico Debris Flows**

Sponsoring Organization: Earth Science

Presenter Name: Paul Alessio, Kristin Morell

Summary: The goal of this project is to analyze data collected last winter and spring from the Monteicto debris flows. The data consists of a suite of GPS measurements, field observations, and sediment samples in 5 different canyons in the Santa Ynez range and on the fan. A GIS map will be produced from this data that will then be used to make calculations and analyze the debris flows. The measurements will help determine the behavior, velocity, and volume of the flow which can then be presented to county of Santa Barbara for planning purposes.

We are seeking funding for undergraduate research assistants to help with the analytics (i.e., GIS mapping, grain size analysis and other soil lab tests on ~70 soil samples, mapping on aerial photographs, field work, and continuing to help out with other tasks of the project).

Presentation Notes:

* Has done a couple Coastal Fund grants
  + Drone to monitor sea cliffs- digitizing shoreline
  + Usually only asks for undergrad salaries, mentoring under grads
* Got funded for emergency grant last winter
  + Interns going to jobs and grad school
  + One intern stayed, data collected
* Trying to get interns to work on analyzing the data
* Money would be for undergrads to help with lab work and field work, work with GPS unit
  + With a little for gas and supplies

Board Questions:

* Can you tell us about all the various data you’ve collected?
  + Data is mostly from 2 differential GPS units (very accurate), hike crease to map peak flow height
    - Visible mark for peak flow
  + When flow goes around turn, it banks on one side -> curvature can give velocity
  + Map flow velocity, rheology,
    - Looking at rock types, hot springs/cold springs
    - Compare sandstone and shale; different grain size and how that affects material flow
  + Potentially long term useful for modeling
  + Volume boulders
    - Make standards, use pictures
  + Volume of sediment to see how much sediment went into ocean
  + NSF grant went to pre-topography data for mountain
    - Nonexistent for mountain, partial for fan
    - Need pre-control,
    - Military group made them spend 20,000 for Lidar predata, did not penetrate vegetation, still waiting
  + Post event debris flow from rain
  + Looking at smaller gullies that made flow, Paul is measuring smaller disruptions with 5cm resolution
  + Fan mapping (where houses are)
    - Mud Lines on trees, houses, flow distribution, rocks,
  + Channel scour
    - Chanell cleaned out in narrow areas, wider areas make scour paths
    - Study sediment budget, how much material came off of slopes and how much went into chanell
    - erosion , boulder sizes/distribution
    - Tributary pattern

* + Grain size
    - Rheology, flow property, bulk properties
* What exactly are the interns gonna do going forward
  + Continue mapping
  + Parts that have mini debris flows that got trapped, need to measure for scaling purposes
  + Measuring boulders
  + GPS rounded measurements to nearest meter, Interns going out and remapping
  + Need to go east (Santa Maria, whole debris flow is sitting there)
  + GIS work
  + Data organization
  + Grain size analysis (Sieve, particle size analyzer)
  + Anything else related/ helping with fieldwork
  + Mentoring undergraduates- one intern wants to write senior thesis
* Where are you going to advertise for new interns?
  + Have two lined up already: earth science and ES that helped over summer
* What's the end goal with the project?
  + Papers
  + Have met with county agencies a bit, data may be useful for evacuation orders, ect
  + Collaborated with USGC, CA geological survey; they have communication/collaboration/shared data
  + Hopefully data is useful for future modeling
* Do the interns know GIS or do you teach them? How much interaction do you have with them on a regular basis?
  + One we taught GIS
  + Meet at least once a week, usually more
  + Have a computer in Lab that they use for GIS
  + Mia and Ian know GIS, Sam is learning
  + Wrote down all the steps for them
* What’re you expecting to tell them at October 30th meeting?
  + Present data we have so far, preliminary estimations
  + Provide some insight
  + Side project: drone above debris
  + Checking for errors, if data is reasonable
  + County rain gauges weren’t logging the data correctly, went through to correct rain gauges
  + Ed keller is doing social work
  + Lot of instruments were poorly calibrated, facilitating corrections/checking them
* How successful do you think would you be with unpaid interns?
  + Nobody likes working 6 hours a week without getting paid
* Is it integral for undergraduates to be paid in full?
  + Yes, too much work to get done in time

Board Discussion: Closed

*MOTION/SECOND: Jordan/Kate*

*Motion language: Motion to table FALL 18-03*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

**Fall 18-04: Endangered in California/Back From the Brink**

Sponsoring Organization: International Documentary Association

Presenter Name: Michael Love

Summary: Back From the Brink is a documentary film project about endangered species -- most in

the Santa Barbara watershed -- that have come close to extinction and been brought back

from the brink by dedicated biologists and collaborators.

Presentation Notes:

* Been working w CF for a while, use student interns
  + Snowy plover film being used to train at COPR
  + Dev Slough film
  + NCOS film
* Not directly associated w UCSB so it's a little different than usual
  + Brought Eliot, who shot other two movies
* Watch trailer
  + Really good
  + Foxes cute
  + All their shots except some condor shots- looked good
  + Going to add salamanders
* Another year of production to go
  + Want interns, hopefully that will able to travel with them, assist shooting and post production
* **Want to add travel budget for interns** - about $1000 for travel, hotel meals

Board Questions:

* Where do you usually screen your films when they’re done?
  + UCSB films are used locally as educational at events, film festivals
    - Snowy plover at wild life international film festival
  + Available for free to stream from fish and wildlife for education
  + New film is 4K will be shown at film festivals and also educational,Aiming to get it on Netflix, PBS, or Discovery. More marketable
* Can you talk a little bit about relationship between International Documentary Association?
  + Int. Doc Association is nonprofit to work with social and environmental issue films only
  + Strong history of success/highly respected, good sponsor, diligent on managing funds and staying involved in accounting
* Do you have the 10-12 interns you would like picked out?
  + Do not have interns picked out, currently working with some people
  + Consult with Chris Jenkins
  + Open to ES, other fields
  + Interviewing scientists who are specialized in species
  + A lot of education and good experience for interns
* Do you have specific things lined up for shooting where you would need interns?
  + Going to sierras next week, would be great to have some interns to help
  + Help with gear
  + Lot of on location interviews, often need extra hands for lighting and sound purposes
  + Starting to film tiger salamanders in backrange mountains, very rare
    - Stanford has two lagoons, success story to feature
  + More sea otter work, bighorn sheep, biologist interviews
    - Female representation!
* Will filming be done by the end of the year (2018)?
  + Filming will continue on until June, probably longer
* Would you know how much time each intern would need to spend?
  + We schedule things 2weeks- months in advance, ask all the interns who can make it
* If we’re unable to fund this in full, which line items are most fundamental for success?
  + Interns is up there
  + Funding for them would be great, they are fundraising other places (patagonia)
* For the students who might not have a lot of film experience, would you prepare them/work with them yourselves or how would that work?
  + Students get professional credit and recommendations
  + They will train them for what they need to do
    - Holding reflectors and mic boom
* Any of your previous interns gone on and continued in film?
  + Yes, a couple years ago one started working in montecito film company
  + Has written several letters of rec, happy to do it
* In regards to the celebrity narrator, you have some big names listed. How likely do you think it would be that would you get them?
  + Jeff Bridges has done this kind of thing before, good candidate
  + Celebrities about environmentalism/local
    - It’s all about getting to them
    - Oprah?
  + Changes are pretty good of getting someone with a big name onboard, but usually does not come until rough cut of film is complete
* What kind of cameras on you using?
  + Small DSLR, 10,000 feet zoom lens - 16lb lens

Board Discussion: Closed

*MOTION/SECOND: Jordan/Alana*

*Motion language: Motion to table discussion for FALL 18-04*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

**ADJOURNMENT AT 8:44 PM**

*MOTION/SECOND: Jordan/Alana*

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

*ACTION: Consent*

*Additional approval required: NO*