##  ASsquare_logo.tif Coastal Fund Minutes

## Associated Students

Tuesday, 05/03/22, Zoom: <https://ucsb.zoom.us/j/89636182726?pwd=VU14ei8rQnVOV0xmR0xYeHh5MmhPUT09>

**CALL TO ORDER: 6:03 PM**  recorded by Carissa and Kathryn

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) |
| --- | --- | --- | --- |
| **Ethan Estrada****Chair** | **present** | **Visala Tallavarjula****Outreach Coordinator** | **departed early (7:59)** |
| **Mykala Listorti****Co-Chair** | **present** | **Carissa Stewart****Administrative Assist** | **present** |
| **Emma Swanson****Undergraduate Rep** | **present** | **Kathryn Bozanich****Administrative Assist** | **present** |
| **Erika Chan****Undergraduate Rep** | **present** | **Sarah Siedschlag****Advisor** | **absent (excused)** |
| **Anannya Deshmukh****Undergraduate Rep** | **present** | **Ethan Engler****Senate Liaison** | **present** |
| **Austen Apigo****Graduate Student Rep** | **present** | **N/A****Senate Liaison Proxy** | **N/A** |
| **Michaela Sten****Graduate Student Rep** | **present** |  |  |

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

*MOTION/SECOND: Ethan/Mykala*

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

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. Approval of Minutes

*MOTION/SECOND: Ethan/Austen*

*Motion language: Motion to approve minutes*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **PUBLIC FORUM** (Announcements, appreciations, concerns, requests to have items added to agenda)
2. URCA Grant Research Colloquium Today
	1. former grant recipient was presenting

1. **REPORTS**
2. Advisor Report: Siedschlag
3. n/a
4. Chair Report: Estrada
5. Interviews start this week
	1. most likely on 5/4 for undergrad candidates
	2. no response back yet from the one individual

1. Vice Chair Report: Listorti
2. looking to see when the best retreat day is
	1. lot of conflict in availability
	2. will probably have at least three people missing
	3. will let us know in the next few days
3. Senate Report: Engler
4. public forum will be moved to after 9pm and likely on zoom
5. in person meetings are going to go until 8 with an hour break, resuming online
6. Administrative Report: Stewart & Bozanich
7. did all of april check ins
8. Coastal Service Program Report: Stewart & Bozanich
9. finishing up the quarter with restoration and beach clean ups
10. Outreach and Education Report: Tallavarjula
11. today was supposed to be Zoe Zilz’s project feature
	1. they only got back to her this morning
	2. by the time they sent the photos, they forgot the paragraph to post
	3. will post it thursday instead
	4. tomorrow will have three more board features
12. Sub-Committee Report
13. External Communications
	1. sarah and kaley met last week
		1. discussed suggestions for what to do at retreat
		2. wrote some questions related to the retreat
		3. likely won’t meet next week
		4. they will work outside of meetings for the rest of the quarter
14. **AGENDA**
15. Approval of Agenda/Additions to Agenda

*MOTION/SECOND: Ethan/Kaley*

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

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **OLD BUSINESS**
2. Reallocation Request for WIN 19-03

*MOTION/SECOND: Ethan/Anannya*

*Motion language: motion to approve reallocation request for WIN 19-03*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

* austen is recused
* kaley doesn’t care either way but notes that it does feel like a new project
* the question is kind of similar, it just seems new
* ethan thinks it could be a situation in which they simply couldn’t use the money they got
* looks like they just want to figure out which species were going where in the area
* have had multiple instances of people requesting a year long extension, in this case there is a better argument for it
* they are restricted by seasons for the work they want to do
* they have to wait until next march to do that sampling
* all around it is kind of new
* mykala isn’t opposed to granting it
* kaley only wants to grant it on the basis that covid was happening during this time period, if there wasn’t a pandemic then probably wouldn’t agree with such a big project change
* that could be feedback to give them, note that it is a one time thing
* two options: 1. approve and send back with feedback, 2. if everyone had an issue with it being a different project and extending it by a year, then deny it and suggest they apply again
* tell them that we are happy to grant it because of covid but this is a big change so don’t do it again
* erika likes that they will be getting the opportunity to do more research
* will have two undergrads for two quarters, each getting $1200
* budget checks out, no issues
1. Extension Request for WIN 19-03

*MOTION/SECOND: Ethan/Mykala*

*Motion language: motion to approve extension request for WIN 19-03*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

1. **NEW BUSINESS**
2. **DISCUSSION**
3. Overview of Tonight’s Presenters

a. MPA Watch - Penny Owens

* have funded many times in the past
* have consistently funded it over the last five years (not including 2020)
* pretty standard
* requesting almost $5000
* funds for UCSB interns, project manager, and travel to project sites
* emma wasn’t sure what the project manager was, didn’t see anything about it in the proposal
* worth asking about to see how they describe it
* they may not mention it in the presentation
* kaley wants to ask about the workshops, if they will continue to do them, how successful they were, etc.
* virtual workshops increase accessibility for everyone, would like it if they kept them
* mainly had general questions about intern work and how the pandemic affected them

b. COPR - Jessica Gray

* another classic one, pretty standard
* almost $59,000
* pretty big but they used to split it throughout the year, we asked them not to do that anymore
* last time we funded quite a bit but still cut some out
* kaley wants them to go through each research internship and outline what they are doing
* erika wants to know how successful they have been with preventing people from going onto the nesting sites
* ethan had a similar thought, knowing that the presence of people on beaches increased a lot over covid, wanted to know how that affected their project
* they mentioned that they increased/incorporated virtual internships, seemed mostly like creative work (design, writing, etc.), wondering if they will continue to offer them
* asked this last time but curious about if any research was published or presented
* they mentioned that the internships helped some students with a writing minor, something new this year that we haven’t seen before
* erika noted that they said interns work a 50 hour intern this year while receiving a stipend, want to ask if their payment is $14 or $15/hr, their numbers seem off
* they say stipends are equivalent to minimum wage but they would only be getting $700 this year, which is $14/hr

c. Sponge-Peracarid - Siena McKim

* new project
* about $8600
* anannya had a lot of questions about the art project aspect since they didn’t go over it very much
* wants to know how the intern is involved in the art piece, why art as the chosen presentation form, where it will be displayed
* austen wanted to ask about the internship compensation, they are going to be paid through fall quarter and not after
* wondering what the reasoning for that is
* unclear why they shouldn’t be paid
* ethan said she might have mentioned them receiving credit
* $20/hr for intern work is very generous, maybe we can ask her to lower it
* she can lower the pay and then pay them for longer
* considering that interns would be doing more difficult tasks beyond fall
* having more long term income is probably better
* should ask why winter quarter is only units
* kaley wants to ask what intern pool she is looking at since 10-12 hours is a lot of time commitment
* would be good idea to bring down the wage amount and cut hours
* ask about if any experience managing student internship, or what potential intern research they had in mind
* erika wants to ask how has art affected her research, seems very passionate about it

d. Sustainable Technology - Mabel Aceves Lopez

* will probably be a no based on initial reactions
* erika notes that it is definitely related to sustainability but it doesn’t related to our mission statement and we are not the group to fund them
* Kaley says they have this meeting to convince her its about the coast
* austen wants to know if people feel the same about the project from the GIVE benefit scale
* he is confused about the difference in scope as it related to our mission
* anannya likes the moving project a lot, this doesn’t relate to our community as much
* if we make that exception for the GIVE project, we could make it for this one
* ethan thinks that the GIVE sale is in the gray area but the connection is stronger than this project, since that one helps manage the influx of material waste in IV
* since they are requesting money for two undergrads and one as a manager to mainly provide tech repair consultations, they may say that their project ultimately prevents tech waste from going into the oceans
* less tangible than what the GIVE sale provides
* mykala notes that seeing the piles of waste in IV and the evidence on the beach is more connected to the mission statement
* erika thought about it as them providing a cheaper/more accessible service, even though it can still be found somewhere else, while the GIVE sale is more unique
* ethan caught that the three main things they are seeking to do is provide free consultation, distribute educational programming, and seek more funding
* kaley wants to ask how they measure e-waste production and how many repairs do they conduct each year
* those questions would assess the actual impact of their program
1. **PROJECT REVIEW**

**Project Title:** CF-202204-02449 | MPA Watch Internship Program

**Sponsoring Org:** Santa Barbara Channelkeeper

**Project Leader:** Penny Owens

**Summary:**

Santa Barbara Channelkeeper seeks a $4,873.84 grant to support two UCSB interns for our MPA Watch Program. MPA Watch is a citizen monitoring program that trains and engages volunteers to record and track human activities in and around Santa Barbara's coastal Marine Protected Areas (MPAs) by conducting onshore visual surveys. The data collected by MPA Watch volunteers is critical in tracking trends in human activities in our MPAs and providing context for the interpretation of biological monitoring data to measure changes in fish populations in response to the protection offered by MPAs. MPA Watch data also aids compliance and enforcement efforts to ensure that MPA regulations are followed.

**Presentation Notes:**

* **works with local organization called Channelkeeper**
* **non profit founded by environmental defense center**
* **CF has previously supported them**
* **allows for local individuals to take legal action against polluters**
* **affective model that other organizations started and started a waterkeeper program**
* **Channelkeeper was the 34th “waterkeeper” program**
* **each organization is independent but all work together collectively**
* **founded in 1999 and became independent non profit in 2001**
* **work to protect and restore the channel through monitoring and field work**
* **have programs to look at human use of the channel for monitoring purposes**
* **take note of any recreational activities or boating activities**
* **advocate for environmental laws that protect the waterways: both the enforcement of past legislation and the incorporation of new ones**
* **youth education program- seeing the estuary flow to the ocean**
* **have been in the Ventura river since 2001**
* **educate elected officials about important water quality issues and the public on important current issues**
* **will be a ballot measure for the california plastic pollution act**
* **opportunity to address single use plastic pollution closer to the source**
* **not a perfect solution but a good step forward**
* **have never taken anything to court, have always had negotiations and meetings before establishing a legal agreement**
* **have an ongoing lawsuit against the city of Ventura**
* **to maintain minimum flow levels**
* **MPA Watch intern program has been funded by CF for a long time**
* **it is a community science program**
* **the data is meant to educate community members to help inform enforcement**
* **exciting to see new incoming classes learn what an MPA is**
* **California in 1999 created marine protection act**
* **divided state into multiple regions**
* **the south coast region was point conception all the way to mexico**
* **all users were invited to participate - UCSB scientists, researchers, staff, etc.**
* **even recreational and commercial fishermen participated**
* **negotiation/compromise process**
* **has been in place for 10 years**
* **now southern california was the last region in the state to become effective**
* **in a big process of the state fish and wildlife department doing a 10 year review using their data**
* **marine life protection act gives opportunity to review goals of the regulations**
* **some people interpret it as getting rid of the MPA’s altogether**
* **while they review data, a lot of it generated through the channelkeeper program, it looks like the process will generate more engagement next spring**
* **interesting to see how long these processes take**
* **starts at campus pou=int and extends through ellwood mesa hits the golf course**
* **it extends 3 miles offshore**
* **the mpa is so accessible especially for ucsb students and for community scientists**
* **all walkable distances for ambitious volunteers/interns**
* **two monitor the naples sea conservation area, the other is shtay i t mpa**
* **interns are an integral part of the program, especially to ensure consistent data collection**
* **have struggled to get consistent data of human use from general community helpers**
* **the western part of mpa is where the most violations are recorded**
* **try to get volunteers to assist in volunteer training**
* **able to engage with current interns and an undergrad freshman class to show that classes improve after gen eds**
* **as their schedules permit, they are encouraged to engage with other channelkeeper programs**
* **they do the gear grinding work- data entry and quality control of the nonprofit**
* **it is time consuming work, so important to pay interns for it**
* **past watch intern had built up enough experience in the field for job application**
* **skills are transferable**
* **record number of volunteers the last couple of years**
* **will continue to offer the program**
* **hybrid in person and online**
* **trained over 500 volunteers and 6000 surveys**
* **2021 was a record breaking year for surveys**
* **advocated that interns should be able to work throughout the pandemic**
* **been a nice activity for students to engage with**
* **both restorative and healing while also helping to collect data for conservation**

**Board Questions:**

* **What does the process look like for internship recruitment- what are the metrics you look for in an intern versus a volunteer?**
	+ **always looking for volunteers**
	+ **host quarterly volunteer workshops**
	+ **create a position announcement then email it out to different listservs (biology, geology, environmental studies, etc.)**
	+ **coastal fund has shared it in the socials**
	+ **get the most traction going through listservs with undergraduate departments**
		- **austen says that the black student union, chicano students, and other organizations might be worth sending emails to**
* **understand that you are looking to recruit 30-50 volunteers a quarter, how do you keep your data accurate and consistent with so many volunteers to manage?**
	+ **thats 30-50 volunteers per year**
	+ **data management is a task**
	+ **before anything is uploaded to the statewide database, it is reviewed by a second individual**
	+ **interns do the data management**
	+ **data management is no small task, tedious and time consuming but a very important part**
	+ **impressed with the quality of data entry but have that second set of eyes to double check**
* **wondering if you could describe the virtual volunteer workshops and what that entails?**
	+ **the first step is they sign up for the virtual training workshop which is an hour long**
	+ **have a presentation that the interns usually help with to build presentation skills**
	+ **walk through the background of maps**
	+ **have a CF shoutout slide**
	+ **walk through how to do a MPA watch survey**
	+ **cover where all the transects are**
	+ **the number one infraction is on shore recreation activity and then offshore surfing**
	+ **also track boating activity, recreational or commercial, etc.**
	+ **strongly recommend, but not required, a one hour field training session**
	+ **take information they have given and walk through how to do a survey**
	+ **show how to circle and sum tally marks for second set of eyes to review**
	+ **review some of the boating**
	+ **really a two hour training but the virtual training is the larger one**
	+ **lend out binoculars and clip boards**
	+ **curious about whether or not to include a quiz in the virtual training to establish more engagement**
	+ **always open to update and improving the volunteer**
* **on the line items for the program manager, is that a stipend? can you elaborate on it?**
	+ **it came from a coastal fund recommendation a long time ago**
	+ **the priority is interns and travel funds**
	+ **it helps to cover some of the stafftime**

**Board Discussion:**

* **pretty standard**
* **no big input to add**
* **ethan liked it then and likes it now, no change**
* **he thinks the best stance is funding it as much as we can, if not fully**
* **kaley notes that it is a great internship and always have been**

*MOTION/SECOND: Ethan/Mykala*

*Motion language: motion to table discussion for CF-202204-02449*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

**Project Title:** CF-202204-02417 | Internships and additional funding support for conservation, education, and restoration programs for fiscal year 2022-2023

**Sponsoring Org:** COPR

**Project Leader:** Jessica Gray

**Summary:**

Coal Oil Point Reserve (COPR) requests funds to provide UCSB students with paid internships for the 2022-2023 fiscal year. UCSB student interns and assistants will participate in internships in conservation, outreach, land stewardship, research and communications. The internships at the reserve will provide UCSB students with opportunities to acquire field experience to enhance their professional development while helping the reserve with crucial conservation, education, and monitoring programs.

**Presentation Notes:**

* **can offer so many different types of experiences for undergrads and grad students**
* **has been helping to manage Coal Oil Point Reserve for 20 years**
* **the only reserve in the UC system with 41 reserves**
* **because of the coastal fund that they can do it**
* **proposal is the same as the last couple of years**
* **want to provide stipends to students who provide work on the programs**
* **some programs we have had for over 20 years like the snowy plover docent program**
* **bulk of the funding goes to paying for snowy plover docents**
* **help the public in a positive way to teach people about the snowy plovers and how to recreate safely**
* **the program has been super successful and copied throughout the state**
* **very proud of it because it represents a solution to a major problem we have, both in the world and in california**
* **how do we live the way we want while leaving room for endangered species**
* **while they do try to inform people that the beach does not have to be fully closed for recreation, it does have to be respected and kept safe for the wildlife that inhabits it**
* **by walking by the water's edge and leashing the dogs will help people cohabitat with the snowy plovers**
* **when you work with conservation, there are a lot of lost battles but this is one that won**
* **the snowy plovers came back with dozens of nests every year**
* **the stipends are particularly important to the program**
* **having a paid student allows them to focus the time when volunteers are usually absent**
* **those are the times where the biggest breeding times occur**
* **the two big holidays like memorial weekend and fourth of july are when they give preference to interns to help fill those days**
* **land steward internships are for students who work with the other staff on restoration projects**
* **learn how to identify native species of plants, plant seeds in the green house and maintain**
* **usually have students with stipends and a student on salary who spends a year**
* **research internships are those who want to spend time learning field techniques**
* **regularly have water quality monitoring, have camera traps**
* **the student looks at the footage and checks frequency that the mammals pass by**
* **sort of a new program but have learned about two new marine land species in the area- spotted skunk and chipmunk**
* **place to provide internships and have three scientists on staff**
* **Kipp works with plants, Cristina with insects, Jessica with marine biology**
* **between the three of them they can provide a lot of mentorship**
* **communication internships are growing by demand, want the students to do something very applied and interesting**
* **started having writing majors doing communications**
* **turns out to be great**
* **didn’t know how much they needed good writing skills**
* **hoping to maintain writing projects within the program**
* **can always come up with a writing project**
* **in need of quick/catchy messages that can be spread quickly to the public**
* **other funds go to small amount of supplies, docent supplies, some monitoring/research materials, and intern snacks**
* **very small amount of funds for that**
* **these funds are mostly used on students**
* **one cool thing about the CF grant for them is the ability to use as leverage to get more grants**
* **read some research and learned that underrepresented students are often interested in biology field**
* **throughout the process, a good majority of them switch majors**
* **lack of examples and experiences**
* **students who go through a field class and get excited about the program helps them with losing the fear of not knowing how to conduct research**
* **became really interested in trying to help this change and an important thing is to remove the barriers**
* **talked to a few donors for funding**
* **got a really nice grant specifically for underrepresented students**
* **hoping to encourage students to culminate a senior thesis as a mentor**

**Board Questions:**

* **you touched on all the internships except for the communication ones, can you go into more detail as to what they will be doing?**
	+ **the reason she didn’t was because she has nt received the requests**
	+ **the internships are usually in the winter time**
	+ **the professor sends the interns in the fall, after which the proposal is written**
	+ **changing the website location which will be one of the projects**
	+ **the other project will be creating short messages for social media and the docents to communicate**
	+ **need to find catch phrase**
	+ **want a way to absorb information on what the reserve is and what the campaign is about**
* **wondering about the virtual internships as well when it comes to how logging hours would work for the internships**
	+ **now that covid is better, a lot of the activities are not online**
	+ **the students working on inaturalists field guide**
	+ **they are creating a naturalist field guide that has photos, precise species information, and research data collected from the reserve**
	+ **give them a list of species and they work at home**
	+ **now that they have an idea for how long it takes to complete one species log, they know how much work to give students**
	+ **not tracking time but tracking results from students**
* **Wondering about the stipend-its supposed to be minimum wage but it comes out to $14/hour for a $700 stipend**
	+ **no, it is intended to be $15/hr in 2022, and $16/hr in 2023**
		- **ethan checked and found that if you have 25 employees or less, the minimum wage this year is $14/hr**
	+ **not required to offer that much but feel like it is necessary since it is a competitive job market**
	+ **there is the issue of accessibility too, if a student does not have much financial help, they may need to work additional jobs, so they want everyone to have equal access to this experience**
	+ **would be great to increase the wages to $15/hr as long as they are still able to add it to the proposal in time**
	+ **will redo the spreadsheet and resend it to account for higher wages**
	+ **will change the lab assistants to a dollar more then**

**Board Discussion:**

* **ethan still has the same stance**
* **just have to wait on the updated budget**
* **it seemed like they intended $15 and it was just a mistake**
* **a great program with great internships and great work**
* **definitely need to make some cuts**
* **would like to fund as much as possible**

*MOTION/SECOND: Ethan/Austen*

*Motion language: motion to table discussion for CF-202204-02417*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

**Project Title:** CF-202204-02444 | Sponge-Peracarid Associations in Santa Barbara Kelp Forests

**Sponsoring Org:** EEMB

**Project Leader:** Siena McKim

**Summary:**

One ecosystem that is generally overlooked in research is inside of one of the oldest groups of animals: sponges. We have an abundance of habitat-building sponges in the kelp forests around Santa Barbara; however no one has conducted a survey of invertebrate biodiversity within their bodies. These organisms, like Peracarida crustaceans, play important roles in the food web as herbivores, decomposers, prey, and as disease vectors in local commercial fish. Without proper documentation of biodiversity in our kelp forests, we cannot fully assess the effects of climate change in our local marine environments. I propose an investigation of sponge-dwelling Peracarids within Santa Barbara kelp forests. My research includes collecting sponge samples, documenting Peracarida species, gathering genetic material, and creating phylogenies of little-known species. This work will begin to catalog underdescribed and undescribed species of Peracarids, the foundational work all other science builds on.

**Presentation Notes:**

* **studying the local alien apartments**
* **animals that live in the kelp forest - sponges**
* **have art depictions to represent the research**
* **on a bigger scale, conducting research at Coal Oil Point**
* **see the tiny crustaceans that live in the sponges**
* **in rocky substrates they have sponges**
* **sponges are really diverse, and we are still currently working on describing local species**
* **have found that there are over 100 unidentified sponge species on the CA coast**
* **this includes the crustaceans that she’s studying**
* **the holes on sponges are where water leaves after filter feeding**
* **inside of the biomass is really under investigated**
* **in other parts of the world, like antarctica and the arctic, there has been some research done**
* **has been research of what's inside**
* **don’t know what a majority of what is inside the organism**
* **a lot of biomass of kelp forest is in species between the rocks and inside the other creatures**
* **will be looking at the sponges and looking at what peracarida live within them**
* **lot of arthropods can produce silk and has evolved over 30 times in insects alone**
* **these arthropods have built tubes with silk, trait that has evolved over 30 different times on land but unknown in the ocean**
* **can build their own homes that they live in**
* **can use the silk to wrap debris together and stuff into snail shells**
* **these organisms are fascinating and we don’t know a lot about them**
* **combining interest of what is inside with the biomass of the kelp forest and what are the behaviors and ecological roles**
* **have already done scouting missions to see what are inside the sponges**
* **first thing to do is find out what is happening**
* **collected sponges from refugio and found a group of unusual isopods**
* **this group called anathids are fish parasites**
* **when they are larvae, they will attach to fish and suck the blood to get to the next stage of life**
* **don’t know a lot about this interaction**
* **they don’t look like any other species found in california**
* **could be a new species**
* **is it new because we have never seen them in the adult stage or are they invasive**
* **working off of Coal Oil Point and Naples**
* **excited to share the research she will be working on**
* **her data will help contribute to what we know about that long term site**
* **working at refugio and also working in carpinteria**
* **collecting data about where specimens were found, what sponge they were found in if at all**
* **all the data is laying foundation for understanding what is in the sponges**
* **when data is collected, it will be immediately uploaded on iNaturalist**
* **will be taking DNA and if she finds interesting relationships and seeing if inhabitants of sponge have ancestral relationships**
* **looking back in time using DNA barcoding and observing genes**
* **seeing if there is any speciation events and non random associations**
* **a lot of what she will be doing is creating phylogenies for these species**
* **a second aspect of research is the evolution of silk productions**
* **crustaceans come before insects in evolutionary order**
* **interesting aspect of who started producing silk first**
* **funding from CF would help with hiring an undergrad**
* **their work would include lab work, species identification, and crustacean education**
* **would help her the first quarter and pay her for their work and the following quarter they would do an independent research project**
* **beyond the scope of the year, the funding would also be used to visualize her research**
* **she is an ecological artist and is trained in art**
* **making her research available to the public through art**

**Board Questions:**

* **will the intern have any hand in the collaborative art piece, where will it be displayed, and why did you choose to display results as an art piece?**
	+ **this science part is going to take a while**
	+ **ultimately hoping that all the research will contribute to the art piece**
	+ **for now, the undergrad would not help with it**
	+ **final deliverables would ultimately be the findings that she gathers for this project**
	+ **a lot of research is so cool and needs to be communicated through art**
	+ **art can reach people in a way that words can’t**
	+ **hoping to continue doing that throughout her phD**
* **are you looking at both the phylogenies and the \_ under this grant and what will the time disbursement look like to do both?**
	+ **for eemb the grad students have written exam, decided to write a literature review which would talk about what is happening with silk production**
	+ **grant is mostly for processing material**
	+ **the undergrad will help her look at all of the organisms in the sponges**
	+ **teaching them about taxonomy, identification, microscopy**
	+ **the first quarter will take a while to ID everything and teaching undergrad everything she can about the subject**
	+ **later the project will be choosing specific examples to do DNA work on**
* **would you mind elaborating on how many samples you will be collecting?**
	+ **going to be collecting the bulk of them tis summer**
	+ **collecting about three sponges in each site**
	+ **might find something new**
	+ **will be looking at two genes in each sample with 98 samples**
* **you mentioned that your undergrad could pursue an independent project in fall quarter, it seems like they could apply for units in winter quarter and not be provided with payment, could you justify that decision and change in compensation?**
	+ **will be paying them $20/hour**
	+ **hoping they will work 10-12 hours a week**
	+ **wanted to pay them for the first quarter because she wanted it to be a position open for undergrads who need to work**
	+ **for the fall, will have all the samples but right now have things to sequence, so sees them doing lab work with her**
	+ **have things they can start sequencing no**
	+ **wants to leave it more open ended for them to decide**
	+ **having the option to do some sequencing but a lot of it will probably happen later**
	+ **if they want to continue working with her during winter quarter, then they can**
	+ **she did not apply for funding for winter quarter, just the fall**
	+ **can continue for credit if they wanted to in winter**

**Board Discussion:**

* **something that ethan immediately thought of is that the proposed deliverables will not be the achieved deliverables in the end**
* **she is so passionate about sponges, which mykala loves**
* **seems like she would be a good mentor for the interns**
* **probably cannot fund these on just charisma of the presenter**
* **based on kaley’s knowledge, the silk spinning aspect of the research is fairly new and might need some time to mature as a project**
* **challenging to know how much time its going to take until you have an idea of how many samples**
* **erika was confused by her explanation of the $20/hr and the justification for no winter funding**
* **overall if you are trying to support someone financially, doing it for a smaller amount over a long period of time is better than what she proposed**
* **annanya agrees and thinks the silk thing sounded cool but also a time-consuming aspect**
* **trying to be helpful when she chooses $20 for one quarter**
* **could be possible that she didn’t know she could request money for multiple quarters**
* **it seems like this is her first time applying for a grant**
* **trying to be conservative with internship**
* **over the next year, these details could be ironed out and figured out more, especially if we provide feedback**
* **austen agrees and other presenters come in with more of a plan**
* **doesn’t want to discredit exploratory work, but it seems a little scattered in both compensation and science aspects**
* **well organized with cool science and art**
* **definitely a cool project but could be a project that we have them come back and ask for funding when she’s figured it out more**

*MOTION/SECOND: Ethan/Kaley*

*Motion language: motion to table discussion for CF-202204-02444*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

**Project Title:** CF-202204-02458 | Sustainable Technology Repair to Support the Coast

**Sponsoring Org:** Enterprise Technology Services

**Project Leader:** Mabel Aceves Lopez

**Summary:**

The Sustainable Technology Repair Initiative has been providing free technology troubleshooting and repair for students’ personal laptops and phones since 2019. We plan to use this funding to continue to provide 1) free technology consultation/troubleshooting services, 2) educational programming on personal technology maintenance/repair, and 3) advocacy work within the University community to secure sustainable support for a campus student technology repair resource. By facilitating on-campus tech repair, STRI aims to reduce e-waste on campus, contribute to UCSB’s broader sustainability efforts, and empower students through education to have more control over the lifecycle of their personal technology. To realize our goals, we need funding for our undergraduate student team. They will be responsible for creating educational material, holding workshops to advocate for repair, and offer free guidance on technical issues.

**Presentation Notes:**

* **ethan is recused**
* **electronic waste impacts the environment**
* **consumer e-waste is the waste produced by technology we use daily**
* **some materials used are lead, mercury, and chromium**
* **emissions from manufacturing are also big pollutants**
* **to manufacture you create all sorts of different pollutions like air borne particles, acid fumes, VOCs**
* **83% of carbon emissions for the full life of a macbook air come from the manufacturing process**
* **campus waste survey they found that 30% of students have had a device fail**
* **16% said they would throw it away and replace the device with a new one**
* **around 20 tonnes of e-waste**
* **⅓ of students were not familiar with the environmental impact of e-waste**
* **really want to change on the campus**
* **through the manufacturing process the toxic chemicals can seep into the groundwater or get absorbed by the atmosphere**
* **waste is slowly accumulating in the aquatic ecosystems**
* **recycling is not the solution to e-waste, it can only mitigate a small part of the damage**
* **a lot of the harm happens right at the beginning**
* **want to advocate for reusing and reducing**
* **STRI is the Sustainable Technology Repair Initiative**
* **has been working for three years to provide students with free device repair**
* **funded by a TGIF grant for this year**
* **staff made up of entirely undergraduate students**
* **want to provide educational outreach, tech consultations, and collaboration with campus organizations**
* **want to make sure students are responsible consumers that can make choices for the benefit of them and the environment**
* **offering 1 on 1 consultations with students**
* **do physical repairs, if a student brings in their device and a replacement part, they can do it for no cost**
* **want to teach students to do this repair themselves, basic skill that people should have and provide tool kits to help repair**
* **want to collaborate with other campus organizations**
* **going to broaden services that they offer and help them reach a wider audience**
* **working with the IT department to provide an internship**
* **this quarter they work with student food security and basic needs center**
* **have already helped over 100 students through consultations and physical repairs**
* **have had over 1000 visitors on their website already**
* **feedback surveys students repair confidence doubles after working with STRI**
* **have held three educational workshops and a technical writing and repair program**
* **can help their peers when they have tech issues**
* **forming a community on campus with the skills to do repairs**
* **anyone can drop by in the uen**
* **were present at the earth day festival to show students what is in their devices**
* **one issue that they need to overcome is funding**
* **this is where the CF grant comes in**
* **for initiative to function they need student staffing so that they can do repairs, reach out to students, and teach people**
* **for their requested budget, student staff is the majority of the funds**
* **want two undergraduate employees and one undergraduate student manager**
* **knew team would be doing highly skilled work so they should be compensated accordingly**
* **want to pursue students who have work study eligibility**
* **one of the initiative goals is to be accessible**
* **hiring students who have that financial need would give them an opportunity to**
* **they stand behind the fact that anyone can learn to do repairs, emphasis on diversity**
* **have hired a wide range of majors in the past**
* **everyone who has joined the team has become comfortable with repair work**
* **asking for marketing materials**
* **during the summer they want to start recruiting and hiring**
* **fall will involve training the new students and making sure they are comfortable with the work**
* **for the rest of the year they will be executing the services, holding educational workshops, doing repairs, reaching out to community members to see what they would like**
* **by the end of the year, one of the main goals is to find a permanent funding source**

**Board Questions:**

* **on average how many devices do you repair per year how do you quantify how much e-waste you are preventing by providing this service**
	+ **the past year was mostly virtual services, and they have not been operating very long**
	+ **between fall and winter quarter, have done at least 30 physical repairs, not including helping with viruses and processing speeds**
	+ **first year was pilot year without a widely available service**
	+ **restarted in-person repair services this fall**
	+ **had to do calculations for the TGIF grant**
	+ **looking at energy.gov**
	+ **looking at carbon equivalent emissions which is saved from repairing a device**
* **how have you been advertising to students on campus who may not know about this program and do you have any plans for the future on how to further reach out to students?**
	+ **have done some advertisements through social media**
	+ **have posted ton the free/for sale page on facebook**
	+ **have an advertisement on gauchospace page**
	+ **tabling at the ucen**
	+ **have been a part of different campus events, like the earth day festival**
	+ **want to continue doing tabling in the future**
	+ **have plans to get involved at orientation, i.e. handing out flyers to new students**
	+ **trying to reach out to more people**
* **do you advertise to students about repairs violating system warranties and have you had any issues with that during repairs?**
	+ **don’t want to touch anything under warranty**
	+ **will walk through the process with them to make sure that they do not do anything to the device that they aren’t comfortable with**
* **how do your student employees working in tech services learn about how to do repairs and do you have an assessment, is there a training process?**
	+ **the training right now is done completely by them**
	+ **when starting in 2019, went through the iFixit program**
	+ **all did a big project with them where they repaired phones and laptops**
	+ **the managers share knowledge with new employees**
	+ **involves lots of mentorship and shadowing**
	+ **makes sure that all new hires are comfortable before performing repairs**
	+ **they are confident in the team and make sure they now what they are doing**
	+ **make sure they are liability trained for privacy reasons**
* **in what ways do you expect this program to impact the local coastal ecosystem?**
	+ **they are going to prevent devices from going into recycling bins on campus**
	+ **recycling is always shown to be a perfect solution to waste**
	+ **just tto have the devices shipped to recycling centers and having those devices burned down it will create pollution that will go into the atmosphere**
	+ **UCSB has a recycling center in california, so that pollution is occuring within the state**
	+ **making sure the devices do not enter into the waste ecosystem and they will all go back into the ocean eventually**
* **what would you say is the success rate of the technology repair, have you been able to repair every phone, laptop, etc. that has been presented to you?**
	+ **did some of those calculations recently and have a pretty high success rate, sometimes cannot do it because its too expensive or too complicated**
	+ **want to say that the physical repair success rate is about 80%**
	+ **with the exception of surface laptops because they are more prone to damage**
	+ **in general, students come to them to ask for screen and battery replacements, and ram upgrades**
	+ **within that subset of issues they are all 100%**
	+ **do not think that they have encountered a software issue that they have not been able to fix**
	+ **about 10% of repairs cannot be done completely**

**Board Discussion:**

* **love the project its really cool**
* **just the matter of whether or not it is covered under our mission statement**
* **the connection was really weak and was holding out for the presentation to be convinced**
* **think it’s a great organization, we are just not the organization to fund them**
* **they kind of convinced erika in the beginning but they do not have enough of an impact on the student body and the coast to justify us funding the grant**
* **providing a great service**
* **kind of know already what we have to do**

*MOTION/SECOND: Mykala/Erika*

*Motion language: motion to table discussion for CF-202204-02458*

*ACTION: Consent*

*Additional approval required: YES (Senate)*

**ADJOURNMENT AT 9:21 PM**

*MOTION/SECOND: Ethan/Erika*

*Motion language: Motion to adjourn at 9:21 PM*

*ACTION: Consent*

*Additional approval required: NO*