Leadership Council Meeting
Oregon Coast STEM Hub
April 24, 2018 | 11:00am – 3pm

Hatfield Marine Science Center – Library Seminar Room, Guin Library

NOTES FROM THE MEETING

Attending: Tracy Crews, Ruth McDonald, Cait Goodwin, Josh Jannusch, Kara Allan, Kama Almasi, Shelby Walker*, Larry Boles**, Shamus Gamache*, Kristi Foster*, Sara Shaw Roberts**, Carol Leonard, Kristin Bigler, Jack Higginbotham, Sarah Bercume

Zoom: Itchung Cheung**, Kathy Barber*

* = Leadership Council member
** = alternate LC member

Welcome and Introductions

Approval of notes from last meeting

Larry moves to approve notes, Shamus seconds; Motion passes

Nominations Committee Update and Adding New Leadership Council Members

Nominations Committee: Shelby, Tracy, Shamus and SueAnn

- Kathy Barber from the Parenting & Family Literacy Department at Southwestern Oregon Community College has accepted the invitation to become a LC member.
- Two additional candidates were unable to attend today's meeting but have agreed to join the LC:
  - Annette Shelton-Tiderman. Regional Economist from SW Oregon, and
  - Alissa Lane, Educational Specialist with the Confederated Tribes of Siletz Indians
- One other request is pending
- New members to be added as needed; the committee will take a pause with recruiting new members for the time being

Update on Director Search & Onboarding Discussion

Search Committee: Ruth, Lisa, Tenneal, Itchung, Shelby

SEARCH: Shelby gave a review of the STEM Hub Director Search. Of 14 applicants, eight have been invited for 'virtual' interviews through Zoom. After that, the committee anticipates inviting a subset to come for an in

person interview with the LC and interested partners. Tracy reports that ODE will allow us to use some of our funding to bring in our out of state candidates for an in person interview. Ideally, the Hub will have a new Director identified by June.

ONBOARDING: The group discussed ideas about how to go about onboarding the new Director. Several members shared what processes are used in their partner organizations that were especially helpful. Suggestions included:

- Backbone staff and LC members could take turns with the Director to take field trips and make introductions throughout the region. The Backbone will start a Google document to list places/people to go/meet and then people can sign up to take the lead on hosting.
- Hold open houses for the Director to meet community members.
- Have the person attend Leadership Lincoln with the Chamber of Commerce. Do other counties have a class like that?
- Have Director meet Chambers of Commerce
- Have Director meet Directors of other STEM Hubs – Space Grant can bring the South Salem Metro STEM Hub Director to the coast (can cover the costs). Directors do have regular meetings.
- Provide the Director with a timeline document showing what happens when, and what is due when.
- Provide the Director with an acronym document.
- Director to attend Workgroup meetings.

Funding Outlook

Budget Update
Tracy distributed the Budget Update and talked about each line in more detail.

- ODE – Funds the biennium through June 30, 2019. We should be able to take excess funds and use them through Sept 30 so that we don't have lapse of funding (instead of relying on our partners to close the gap). We also have some salary savings because we don't have a fulltime Director right now.
- OCF/SFF – Funding ending June 30, 2018
- Trust Management – Funds expended
- STEM Innovative Programming – We just got it so we haven't drawn from it yet. $33,000 needs to go to 'youth voice' with the remainder supporting increasing science in elementary. The funding will also support PD for school administrators.

New Grant Opportunities
Shelby went to a meeting about **Meyer Memorial Trust**, and they have focused their attention on projects related to education and priority populations (underrepresented groups, poverty, tribal). Applicants should focus on strategies for addressing how they will serve these priority populations. The recent application date just came and went, but this would be good to think about for next year. About 100 preproposals were submitted, 53 were invited to submit a full proposal, and of these, 50 were funded.

Ford Family Foundation recently held a workshop in Lincoln County about their funding opportunities.

OCSH applied for **Oracle** funding for Career Connected Learning, but 7 of 13 Hubs were funded and we were not one of them. Future opportunities to access Oracle funding are unclear.

In the past, we have applied for **NSF I-TEST** grants (*Innovated Technology Experiences for Students and Teachers*), and that might be good to go for again. Another grant to look at is **STEM-C** which focuses on computer science. When we have a Director, we will have more capacity to go for these larger grants.

Itchung reports that OSU intends to apply for **RET** (*Research Experiences for Teachers)* funding for next summer (2019), which will probably take place at HMSC.

Jack talked about how **Space Grant** has NASA resources to support STEM education, and could be helpful as a partner in endeavors in grant proposal. Space Grant is currently working with Grand Ronde and would like to engage with Siletz soon. Wants to start at middle school and high school so that students are prepared with scholarships for college. Identify students early, know who they are, help them get to college, and they will be 'work ready'. Space Grant could help with something like Josh's drone project. A recent Space Grant scholar had a marine science background which qualified her to be an astronaut

Shamus says that **Bonneville** is similar. They provide scholarships, internships, and eventually jobs. Shamus will send a connection name to Ruth.

Summary

Shelby expressed appreciation for all the grant writing Tracy and Ruth have been doing. In general, the STEM Hub would like to find more outside funding so that we don't have to rely on funding from ODE. We have lots of small grants but obtaining a larger grant would be helpful.

LUNCH

Continuous Improvement Process (CIP)

Instead of a huge report, ODE will solicit feedback from partners, stakeholders, and have staff do a self-reflection/assessment. Also, we will submit an updated Partnership Plan. By Friday, documents will be in a Google folder so that the Backbone staff can start working on our submissions.

Deb Bailey from ODE is conducting site visits of each Hub. She will be attending the April 28th Oregon Regional MATE ROV Competition as our Hub's site visit.

Logic Model

The group engaged in an exercise surrounding our Hub's Logic Model. In small groups, participants looked through Logic Model to determine which outcomes have been MET (and what evidence shows this), is IN PROGRESS, or are NOT MET. Ruth summarized the responses in a document included at the end of these Notes (p. 6-9).

After the exercise, the group reflected on the items categorized. As we prepare for our CIP, it is helpful for LC members and partners to be familiar with our progress.

The group discussed ways to clarify some areas in the Logic Model so we are saying what we mean.

Overlapping Hubs, mediation process, and updating the OCSH Declaration of Cooperation

ODE has indicated to our Hub that school district partners (and only school district partners) need to choose _one_ Hub that they align with. Teachers can access programming from other overlapping STEM Hubs on a case-by-case basis. On the other hand, the NWESD has informed NW superintendents that they *can* belong to more than one Hub.

Already, the Oregon Coast STEM Hub serves teachers from other Hubs if 1) there is room in the event, and 2) if those participants pay for their own materials, travel, etc.

The Linn-Benton CC based "Mid-Valley STEM Hub" is dropping the "Mid-Coast" part of their name, and Lincoln County is not part of it. Their Hub is focused on high school and community college pipelines.

The bigger issue is how NWESD will handle the overlap. The NWESD STEM Hub is also primarily focused on HS and CC.

ODE is paying for a mediator, Kearns and West, to sort everything out amongst overlapping Hubs and make sure everyone is on the same page. Tracy and Ruth will be attending a conference call soon.

Regional Workgroup formation and Student STEM Ambassadors

Three workgroups (WGs) are being formed. The Central Coast WG will hold their first meeting on April 30. Josh is forming one for the North that will meet in May, and Dawn is forming one (or two) for the South Coast.

Central Coast WG – Kara and Kama approached 30 people, and while only 7 have RSVPd to say they will be attending, no one has said 'don't contact me'. The current composition appears to be a teacher, an informal aquarium educator/liaison, OCCC instructor, Lincoln City charter school teacher. Currently lacking: Industry partners.

Initial WG tasks

- Help set up Student Activities for the summer– OSU Precollege Programs is providing COSEY Mobile Science Camps, Lemelson Invention Camps, etc.
- WGs can look at funding opportunities (like the Meyer Trust)
- WGs can better help identify regional assets and gaps/needs
- Identify one student STEM ambassador from each HS and work with the WGs

Updates of Activities

Professional Development
Backbone staff talked about recent and upcoming professional development trainings. This summer, we are

involved in running seven different teacher workshops on different topics. Five of these are multi-day workshops, and the remaining training on chemistry will be provided in two locations by Holly Neil and a drone workshop by Josh Jannusch. OCSH has funds to help educators travel to and attend these trainings, and in many cases stipends are provided. Sometimes a registration is charged at the beginning but the fee is refunded at the end of the workshop.

Student Experiences
Backbone staff talked about recent and upcoming student STEM experiences. This spring was full of STEM challenges and family science nights. Family Science kits (and last year's PD around them) have proven to be a good investment. Students and teachers are being engaged in shipboard experiences on board the R/V *Pacific Storm*. Summer camp planning is underway.

Next meeting: July 12, Thursday, possibly in the South Coast?

Respectfully submitted, Cait Goodwin 4/25/18

Oregon Coast STEM Hub

April 24, 2018

Leadership Council Logic Model Progress Review

The Leadership Council and Backbone Staff were asked to look at our Logic Model Outcomes (developed and revised for the previous ODE grants) and group the outcomes by placing post-it notes on three charts according to Outcomes Met and Evidence, Outcomes in Process and evidence, and Outcomes Not Met and Evidence Needed. The following is a summary of the Leadership Council's assessment of our progress, which they directed Backbone staff to use in Continuous Improvement Plan.

Outcomes Met	Evidence
Engaged Partners/ Partners Increased Commitment	Partnership Plan, Partner Declarations of Cooperation signed, Attendance Rosters, Leadership Council Minutes, Volunteer hours by Partners, Use of Partner Facilities for various activities and events (including HMSC provided Office space and Trailer space, Partners identify (some pay for) Hub Liaisons and Coordinators (LCSD increased commitment by increased Liaison FTE, Brookings added a STEM Coordinator for Liaison role and Trailer check out), GP, Marine Tech Society, AUVSI, Siletz Tribe, Central Lincoln PUD donate funds for student competitions
Number of Partners and Geographic Range	Declarations of Commitment and umber of partners increased, 20 school districts along coast, Partners from every coastal county
Community STEM Resources	Trailer and Materials purchased and set up, Trailer Check Out Records, Added 2 Trailers for better geographic coverage Curry, Coos, Coastal Lane, Lincoln, and Clatsop County (Tillamook already had own and Hub added materials to it), Mapping on website of Partner and other locations for field experiences on the coast
Hub Central Office and Website Established	Website, FB Page, EBlast Newsletter, OSU provided website hosting (Note: suggested area to improve is to get partners to include Hub LOGO and Link to Website/FB page on THEIR websites)
Increase Student participation in STEM Challenges and Competitions	Attendance Rosters, Participant numbers in ROV, Renewable Energy, LEGO and First Robotics (*need more opportunities on North and South Coast*)

Teachers Accessing Hub STEM Resources	Trailer Open Houses, increasing participation numbers of formal and informal educators in Hub or partner organized professional learning, Ship Time of OSU Research Vessels as field experience, Mapping on Website of Liaisons
Teachers employing technological enhancements recommended in trainings	Teachers returning after workshops to implement ROVs, Renewable Energy, Computer Science, Coding with their students, Correlate Teacher PD Participation with student participation, i.e. students engaged are from teachers engaged with Hub
Develop Educators as STEM Mentors and Leaders	Oregon Science Project NGSS Facilitators (4), NGSS Elementary Science Specialists (7), K-8 Math Specialist form DEMILO MSP grant (6), Picture Perfect Trainers (11), Culturally Responsive Book Study Leaders (3)

Outcomes in Good Progress	Evidence
Number of Teachers implementing STEM PBL increases Teacher	Teacher survey (even years), PD surveys of implementation, TOSA observation, Partners hosting PBL activities at site (*Need more data to confirm*, need data from informal educator partners)
Partners and Mentors engaged and effective	Continued partner involvement, New partner identified and committed, (*need to survey partners, determine need for Targeted PD for partners, Better engage coastal Ports, Fisheries, Chambers, Local Governments*)
Increased Parental Involvement/Support	Records of parent attendance and surveys at Family Engineering and Family Science nights, Science Fair, Field Experience, Local Libraries STEM Programming (*Need more data and evidence here!*)
Educators incorporate STEM Careers in Instruction	Guest Speakers, Career Days (need more data)
Educators gain confidence in Teaching STEM/STEM Integration	Ongoing PD participation rosters, surveys (need more data-longer term follow up to see if what was learned is being implemented in instruction), Many PD opportunities and many teachers attending, (*but, we need longer term implementation/impact data, and to train principals so they support STEM instruction!*)

Outcomes Not Met/Not Adequate Progress	Evidence Needed to meet
Educators incorporate STEM Careers in Instruction	Need data on STEM professionals connecting with educators/students, Use of Oregon Connections to help this outcome
Student Interest in STEM Careers and college	Have baseline surveys, need to re-do student surveys, use SSID's for longitudinal data and to connect teacher involvement-student engagement-student interest
Increased enrollment in STEM class among coastal students	Need data from schools/districts- we have no baseline and no idea!
Increase number and diversity of students in STEM/ STEM internships	Poorly worded Outcome statement: What did we even mean? Need to re-visit this and need baseline data and plan for collecting more, what, who are we counting? Only targeted girls and Latinos with programming…Need stronger focus on developing internships on coast
Work Groups for North, Central and South Coast for greater stakeholder input to Leadership Council	Have only had one mtg. in Central coast, South and North need to get going, then we need to documents minutes, membership and attendance
Common Measures among partners	Measures of What? Need clarity and determine data and collect and analyze it
Teachers regularly accessing resources and increasing STEM instruction	We have data but need grade and school and district specific data to share with admins
Increase graduation rate	Have data available on ODE site, but need to districts to share other data
Increase enrollment in STEM classes	Need data from districts
STEM Hub Office and Resource Trailers "effective"	What do we mean by that- need clarity