CACES Meeting Notes - February 24, 2014

**Attendees:** Tony Guerrero, Warren Gold, Jozlyn Pelk, Kelly Snyder, Tyson Kemper, David Edwards, Andrea Ramirez, Carolyn Brennan, Benjamin Silver (Erika Whitton: note taker)

*Wetlands*
-Doug Partridge - that works with our consulting firm Arcadus - met with Warren and Krista Heller (new aquatic biologist); they went on tour of wetland; part of application that they made for hydraulic permit approval that goes along with beaver management plan. K Heller approved of the way beavers are to be managed. Approvals will commence within one week to ten days.
-What does beaver management mean? The management of their dams: height, etc. Larger trees are being protected. Management plan is to work with beaver population vs getting rid of beaver population. K Heller was very enthusiastic about goings-on, and would like to use this area as an example of how other places should go about protection beavers.

*Conservatory Management*
-Are on cusp of having team
-Management team will be tasked with developing protocols on use, etc.
-Equipping conservatory is an on-going process
-Working on teaching collection of plants...
-Tyson, Warren, Kristy, Charlotte, Carolyn, & Jeff will be on committee; until plant biologist is hired; two candidates are to be interviewed this week
-Tony: what can and cannot be done at head house and greenhouse space should be determined;
**Warren will work with Peggy so she is aware of guidelines**

*Crows*
-Tony: still studying crows; in mean time, we may try a "bird buffer". Right now there is a "goose-be-gone" that is used to deter the geese. "Bird buffer" very similar to that; they take juice and make it into mist/vapor. One machine will do a half acre. There are mixed feelings on the "bird buffer".
Tony showed a King5News snippet regarding birds
"Haze" is used by Hollywood; evidently this deters the birds; they use a "haze machine"
Machine shoots out fine mist that deters birds; grape-laden extracts used in this
Tony showed another snippet where the vapors from "haze" machines spread along a half-acre to deter birds; currently used in places like outdoor restaurants
At the moment, UW3 is favorite with birds; Tony would like to rent a "haze" machine to see if they work; pending feedback from some people
Warren: has spoken with biologists in other places that have used this; but biologists are concerned with the possible effects of the birds in the wetlands; there are a variety of potential problems... and they want to ensure that nothing impacts the wetlands; they also don't really know what it's going to do: will it prevent them from roosting in the wetlands? Will it disperse roost? Many unknowns...
Tony: does not plan on running machine all the time... added that insulation is being chewed
Tony will rent machine to see what will happen; it is getting a little late in the season, but we will see what happens. Warren: they have begun to dig-into the literature; so they have a pre-treatment set of data
Tony: cameras can also be placed to illustrate before/after; to focus on crows themselves
Tony: for now would be UW3, and the plaza
Q: how long will test last?
A: as crow populations are in flux... May need one month to two months to really see effects
Tony: they claim that it's more effective and quicker on larger birds
The degree to which it is carried will depend on all the variables
Tyson: is intention to create a mist boundary?
Tony: as they fly through it, they become uncomfortable and they avoid
Tony thinks that on the campus they would need four or five...
What about fly-over?
Because they stay on roof, poop, rains, and fecal matter goes directly into the wetlands
Levels are high and it's directly connected to roof access; is what they think...
Facilities' budget is helping to fund the testing and research related to crows, etc.
*Community Garden*

- This is on hold right now
- Community garden group is going to approach the chancellor first, before they come back to CACES and ask CACES to put-forth a recommendation
- They have an appointment scheduled for tomorrow (02/25/2014)

*Benjamin Silver*

- Sustainability: is going to revamp website in order to make it more cohesive
- Projects: solar; pending, response due-in in 3-weeks; 100k from Cascadia and UWB to provide and the state for the panels to be placed on top of building (UW3)
- Have state mandates to reduce greenhouse gases; first mandate is set for 2020; solar is a good first step to take toward this; will create 100-110 kilowatts; also a good place for STEM to view effects as a living lab
- Q: have crows had impact on solar panels?
  - A: no, they are too slippery
- Energy savings project with Husky Village; in process of getting data from Puget Sound energy to see what the average use is, and how to dissuade people from using too much energy
- Tony: right now they just want to do an awareness program for Husky Village
- Other approaches: provide students with mock utility bills
- Kelly: maybe more immediate interaction with smart phones?
- Tony: maybe a friendly competition?
- UW Seattle has a few new dorms and they have meters; Benjamin is going to be speaking with them about these...
- Jozlyn: planning on doing education outreach programs with Husky Hall; also planning friendly competition between groups
- Dept of Ecology has an e-site (Kelly)
- Standardize the waste streams; helping with implementation of the bins for all the recycling categories
- Tony: mentioned the illustrations that will be institutionalized for various bins
- Kelly: Shawn Peterson had been working with Tony on stackable stations, etc.; perhaps these should be transitioned over to Benjamin? S Peterson will be leaving soon
- Tyson: to get to 0-waste tag: what does this look like?
- Benjamin: Answer: some places have incinerators for biomass... still trying to work out the quirks of this campus and the streams
- Tony: not convinced with burning method for waste, etc.
- Tyson has vision of “biochar”; Tony concerned that if things are going to be burned, they will require scrubbers and other things to make these comply...
- Tyson has been working with a class that is offered this Spring; this will be helpful to see how bad things are, and where improvements can be made
- Warren: have made some progress with catering, etc., but very little with educating faculty; need a solution for the chaos involved with events
- Kelly: at Chancellor's event last year they worked with a sponsor; and part was to make it 0-waste event; things were done specifically to make this possible
- Warren: likes idea of evaluating what is used at events; need to get people attending faculty meetings; maybe they need some student ambassadors
- Jozlyn: sustainability team creating presentation; wants to target business professors, and non-environmental people
- Benjamin: working with Kristy C in STEM; trying to get green lab certified; they don't believe this will be too difficult. Kristy C did say that there isn't good Styrofoam categorizing for large orders.
- Tony: example: IT now knows to contact facilities to get rid of foam
- Kelly: are trying to obtain equipment to reuse (second hand)
- Warren: do we have any leverage to request dissolvable materials when things are delivered? Eg: like using recycled paper in the past... is this a conversation that can be initiated? Maybe with larger orders these things can be requested? Tony: Joe Shelley would need to help with this.
- Tony: have changed all drinking fountains to the new style
- Jozlyn: is there a way to get more compost bins in library? Tony: at moment doing UW1 and UW2; need to convince Cascadia to pay for their portion of it..? Often Cascadia sees what UWB does first, and then makes similar purchase/decision
- Jozlyn: decline in use of library
*Benjamin recommendations:

-Warren: in past year or two have talked a lot about having Chancellor sign-on to major commitment; a number of symbolic things that place one as an institution out there recognizing that this is important; have had discussed this but haven't really moved anywhere toward this goal; hoping that Benjamin may move this forward as one of first recommendation

-*Benjamin:

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-Spent a couple of weeks studying various conferences:

1) Rio Plus Conference; resulted in UN resolution; to adapt to higher ed. arena; 5 main actionable events:

-Teaching sustainable development concepts
-Encourage research on sustainable development issues
-Green our campuses
-Support sustainability efforts in the communities in which we reside
-Engage with and share results through international frameworks
Commitment to Sustainable Practices of Higher Education Institutions on the Occasion of the United Nations Conference on Sustainable Development
20-22 June 2012, Rio de Janeiro

“As Chancellors, Presidents, Rectors, Deans and Leaders of Higher Education Institutions and related organizations, we acknowledge the responsibility that we bear in the international pursuit of sustainable development. On the occasion of the United Nations Conference on Sustainable Development, held in Rio de Janeiro from 20-22 June 2012, we agree to support the following actions:

- **Teach sustainable development concepts**, ensuring that they form a part of the core curriculum across all disciplines so that future higher education graduates develop skills necessary to enter sustainable development workforces and have an explicit understanding of how to achieve a society that values people, the planet and profits in a manner that respects the finite resource boundaries of the earth. Schools are also encouraged to provide sustainability training to professionals and practitioners;

- **Encourage research on sustainable development issues**, to improve scientific understanding through exchanges of scientific and technological knowledge, enhancing the development, adaptation, diffusion and transfer of knowledge, including new and innovative technologies.

- **Green our campuses by**: i) reducing the environmental footprint through energy, water and material resource efficiencies in our buildings and facilities; ii) adopting sustainable procurement practices in our supply chains and catering services; iii) providing, sustainable mobility options for students and faculty; iv) adopting effective programmes for waste minimization, recycling and reuse, and v) encouraging more sustainable lifestyles.

- **Support sustainability efforts in the communities in which we reside**, working with local authorities and civil society to foster more liveable, resource-efficient communities that are socially inclusive and have small environmental footprints.

- **Engage with and share results through international frameworks, such as the UN Decade of Education for Sustainable Development, led by UNESCO, the UN University system, the UN Academic Impact, the Global Compact, the UN-supported Principles for Responsible Management Education Initiative and the UN Environment Programme’s Environmental Education and Training, in order to exchange knowledge and experiences and to report regularly on progress and challenges.**

Date: ____________________  
Signature: ____________________

Organization: ____________________  
Location: ____________________

Name & Title of Signatory: ____________________
To: CACES (ultimately sent to the Chancellor, document student support as well)

From: Chancellor’s Advisory Committee on Environmental Sustainability

Date: Feb XX, 2014

Subject: Recommendation to Sign the United Nations Higher Education Sustainability Initiative

The United Nations Higher Education Sustainability Initiative was drafted as part of the UN Rio+ 20 Conference on Sustainable Development, held in Rio de Janeiro, Brazil, June 2012. Sponsored by multiple departments within the UN, as well as various international sustainability and environmental organizations, the conference culminated in the UN resolution known as ‘The Future We Want’ (UN A/RES/66/288), a guiding document outlining international support for practices that advance an economically, socially, and environmentally sustainable future. In regard to higher education institutions, the primary, actionable commitment resulting from this conference and ensuing UN resolution is the Higher Education Sustainability Initiative (HESI).

In an effort to highlight UW Bothell’s leadership in environmental stewardship and sustainability, the Chancellor’s Advisory Committee on Environmental Stewardship recommends that UW Bothell sign and implement the initiative to the degree possible. The HESI outlines five specific commitment areas: 1) teach sustainable development concepts across the curriculum*, 2) encourage research on sustainable development issues, 3) green our campuses, 4) support sustainability efforts in the communities in which we reside, and 5) engage with and share results through international frameworks. These wide-ranging actions support the advancement of economic, social, and environmental sustainability at our campus, and help to ensure a constantly evolving and responsive learning environment for our students.

The HESI reinforces UW Bothell’s 21st Century Campus Initiative, which strategically identifies sustainability as one of seven key areas of focus for our long term vision at UW Bothell. By signing on, we demonstrate our leadership in this field, and continue building to, “…develop environmental and human sustainability as a signature initiative [and] Gain national distinction for leadership, scholarship, and teaching in sustainability issues” (UW Bothell 21st Century Campus Initiative, 2008). The HESI commitment to ‘green our campus’ also reaffirms our mandate as a state institution to achieve significant greenhouse gas emissions reductions in the coming years, and UW President Michael Young’s 2012 Executive Order No. 13, which states, “The University of Washington will strive to be a model of environmental stewardship and sustainability by identifying and supporting efficient, cost-effective, sustainable practices in all its operations.”

We highlight the following as key factors in recommending the signing of the UN HESI (please see supporting document for full text of the HESI):

- The HESI directly supports UW Bothell’s 21st Century Campus Initiative
- Over 275 organizations from 47 countries have made commitments to the HESI, including Seattle University, Pacific Lutheran University, and Portland Community Colleges
The actions within the commitment align with our practices and standards already in place on campus, further substantiating our long-standing leadership in the field.

It would provide UWB with an international platform to share and exchange resources and best practices for sustainability and environmental stewardship, specific to higher education campuses.

The Chancellor’s Advisory Committee on Environmental Sustainability therefore recommends that Chancellor Wolf sign the United Nations Higher Education Sustainability Initiative.

-Kelly recommends Warren and Benjamin meet with Chancellor to go over the above...

*Jozlyn*

Earth hour cannot be on campus as it's during Spring break; Sabrina Soles is paying for everything; they will have scavenger hunt mixed with glow-in-the-dark bingo and will have beer and wine for prizes; from 6:30 to 8:15 will have people park... and begin hunt in downtown Bothell. Also want to use this as opportunity to reach out to Husky Hall.

- The Green League Series: 6 workshops where students will learn how to 'eat clean': GMOs, etc., gluten free, etc. Becoming more consumer aware of what happens when one goes grocery shopping; how and where to shop? This is mainly for students that don't have access to farmer's markets. Will connect with Benjamin regarding teaching students how to be more energy-efficient in the home; and last two workshops: how to make practical things within your home that are healthier. This is a test trial; got idea from recycle mania website.

- Subway: they no longer have plastic bags; are now providing paper bags for students - thanks to Tyson. These bags cost more; may need to pay an extra 5 cents per bag; therein, just don't ask for a bag.

- Earth day: worried about student volunteers... relying on them a lot, a bit nerve-wracking

- Tony: people with electric cars will be coming

- Cascadia: trying to contact someone? Warren: John Van Leer...

- Brought up the sustainable and green fee; obtaining student input; hopefully by the end of Spring...

- Attended the real food challenge conference; something the Seattle campus is taking on... it's about bringing real food to campus: from places where environment, workers, etc. treated
fairly... Sodexo provides food for campus; is planning small presentation based on this topic. This also helps with CO2 footprint

- Food in SAC bldg? (Tony); Jozlyn: if sign pledge will need to have 20% real food by 2020
- Warren: green fee; is Earth day opportunity to get more student input on that? Jozlyn: Yes, will have a table there for that purpose.
- Warren: need a table with information on what we've done (during Earth Day)