

Chancellor's Sustainability Committee Meeting Minutes
Friday May 9th, 2016 10:00-11:30
Library, Room 1312

Committee Attendance: Brit Ortiz, Mark Brzezinski, Mo Lovegreen (staff), Jewel Snavely (staff), David Austin, Rachel Segalman (advisor), Bill Shelor (advisor), Marc fisher (Co-Chair), Bruce Tiffney (Co-Chair), Denise Stephens, John Foran, Victoria Mansfield,

Absent Committee Members:

Igor Mezic, Alan Heeger (advisor), Daniel Charette, Roland Geyer, Constance Penley, Mel Manalis, Samantha Rubin, Alex Regan, Maximilien Stiefel

Other:

Katie Maynard, Chandra Krintz, Renee Bahl, Janika McFeely, Matt StClair, Shelly Leachman

Announcements:

Cool Planet, Staff Award, TGIF awards for 16/17

CarbNEWT Group project update on report that went out going to be replaced by new group to continue the work (can we just disseminate their PowerPoint with the notes?)

Minutes - **Motion to approve: passed unanimously**

Presentations:

- a) **Matt StClair and Janika McFeely from the UC Office of the President- System wide Sustainability organization**

The Sustainability (Policy) Steering Committee formed in 2003 to develop policy requested by the students (originally around green building and energy). This group has representatives from each campus, and over time, as the policies expanded beyond green building and energy it is made up of stakeholders from various groups to help develop language on policies for implementation. In addition to this, there are eight working groups that do an annual reporting that becomes a final report for Steering Committee - which has an operational focus. These reports are in the following areas:

- Green Building
- Waste Reduction and Recycling
- Purchasing
- Water
- Transmutation
- Food service
- Operations
- Climate Change

The Global Climate Leadership Council (GCLC) was created by President Napolitano working have academic components. They are:

- Applied research

- Energy services pillar
- Faculty Engagement and Education
- Political Advocacy-get money from the state for operations and research (not a formal working group but a functional area at UCOP)
- Student Engagement
- External Advisors
- Climate Action Planning + Staff Engagement
- UC Policy
- Health Sciences and Services
- Communications
- Financial

Rachel Nava co-chairs both the Sustainability Steering Committee and the GCLC. Bill Shelor asked Matt StClair about carrots/sticks for campuses meeting their goals. Matt said that sustainability is an unfunded mandate and that there are no penalties for non-implementation. The only accountability is to the Regents in one of their annual meetings. Matt thinks the system has had pretty good success with this model.

On Carbon Neutrality, the President has asked David Phillips, Associate Vice President for Energy and Sustainability, to identify how all the campuses are going to achieve climate neutrality which includes information on how/what the chancellor's role is in helping our campus. David is figuring out the path for Janet's interaction with the Chancellor's. There is a task force that will identify the major challenges and barriers and make recommendations on how to get through/around them. Matt used the example of capital projects for missing the mark for energy efficiency.

When Matt started there was one person 100% time in the UC System and that was at UCSB, now there are 40 system wide. The main officer at each campus has happened both ways, bottom up, then top down. A position that reports to the AVC + Provost Office seems to be most effective. Sustainability should not just be operational, but also have an academic side. Used the example of Nathan Brostrom at Berkeley, the officer is now 4 levels down from where he originated it- which causes a lot of problems. When thinking about the long term viability to inoculate the chief sustainability officer's positions so it is not subject to competing priorities, it should be report to the top. Some variations include:

- UCSF reports directly to the Chancellor's Office.
- Matt suggested looking at MIT that has core academic reporting as well as an administrative. See slide for this one.
- The UCLA model of a research unit ties together operational functionality under Office of Research (which has presented some challenges for them).
- Penn State had a research center and a sustainability office, but they needed better coordination and cohesiveness, they created a plan to form a sustainability institute that has research and operational rolls, jointly funded by 5 provosts (See slide on Penn State)

Matt believes MIT, Penn State, and the University of British Columbia are the better options/models. Matt served on external review committee for Amherst and would be happy to help UCSB assess its best steps forward.

Discussion

David Auston asked about best practices for addressing these issues on campus and moving it forward. He asked if the external review process worked best, or if there are there other vehicles? Matt replied that there is not a one way fits all response and that it depends on the culture of the campus. He recommended that we have an external review (or blend between external and internal assessment) to maintain our national leadership position. Penn and Princeton both did an external review. UCLA did an internal one, but they had an external component to theirs as well. Whatever is done, it needs to be inclusive of all the different parties.

Mark Brzezinski asked about the Institute angle: what defines an institute?

Matt responded that the ones he is referring to have a physical space and dedicated staff and faculty and do active research.

The University of British Columbia actually has a building for this to have it integrated between academics, research, and operations. At Penn it is a faculty leader, but with a governance body that is broader.

Marc Fisher asked about a "policy fine tuning for buildings" being held to green standard that includes even donor funding. Is this the intent, or does it have a size that kicks it in.

Matt-no minimum size on buildings. There is a waiver process that can be used. (Like for a shed) then they would get a letter back for limited approach for greening the space as appropriate. It would go to Executive Director for Capital Projects at UCOP.

Matt-what else is new coming to UCSB from UCOP

- The GCLC Task Force at UCOP to overcome major structural barriers to carbon neutrality.
- Strategic planning for President as part of this for her roll with the Chancellor's.
- Have a goal for 2020 zero waste. They are trying to support each campus to develop zero waste plans in the coming year. They are hiring a new staff person to help with this. This person will focus on zero waste, medical centers, and procurement.
- Strategize Planning for COO's office, the other goals is for STARS platinum. What can system wide do to help us get there? Katie said we should have UCSB's new assessment about a week after 2.1 gets released.

John Foran asked what about the total goal of all three scopes climate neutrality date. He talked about the virtual conference he has going. Matt said that the Trans group is looking at scope three.

Now Matt's office has support to support all aspects of sustainability and can cover the academic component.

b) Chandra Krintz Presentation-

Idea is to use analytics to drive farm decisions (Math and Statistics are applied to the data, number crunched by computers). Her question is can we use the same technology to become producers - Food production to feed the planet

There is lots of data around food production, but the consumer boom hasn't been applied to agriculture yet. Her idea is to take data from on the farm, crunch the numbers with the same math/statistics, then give the farmers/growers the ability to apply less water pesticides and produce a better yield. Advances in image processing and big data can be used to reduce the manpower on cattle ranches (use of drones), image processing (remote sensed for water, etc). Using all the spectrum. Animal camera traps (tank visits by various populations). What happens today: Data gathered at farm, then data send to company (tractor/soil moisture sensor), then the companies own the data and don't share it with the end users. Chandra wants to change this model to not move the data off the farm, but let them retain it. Let the farmer get actionable insight, and let them sell it if they want to. The idea is to make a "Smart Farm Appliance" - like your DVR, make it simple like a refrigerator so a non-expert can use it. Based on their past work, they mirrored what Amazon or Google does, then gave it away for free. How do you get the analytics? Download an app that makes it easier for freeware, or for a low cost to executive them. She has done work with start-up companies, her students get internships, makes her students highly sought after, and it makes engineers more social. Recently she has been working with Ingleby Farms (they came to UCSB to see what she was working on). Based on her Sustainability Faculty Champion work, she was awarded an NSF grant and she has partnered with Cal Poly and one other university and she currently has 4 farms that have boxes, but she has 120 farms in total she is working with. She hopes to go global with the application of this product.

Committee Reports:

Academic senate –

- Seeking student applications for GFI and CNI fellows, and the Chancellor Undergrad and Grad positions.
- Also doing call for next sustainability champion.
- Collaborating on an environmental justice minor proposal.
- Continuing to work on new GE getting support letters and petition signatures -have over 1,000, now working on faculty support letters.

Energy and Climate -- working on update to CAP. We have a meeting on Friday to get life-cycle cost analysis tool. John is teaching an ES course with students working on CAP sections that will have 10 reports to help with the plan.

Climate and Energy –

Energy and Climate-working on update to CAP. Meeting on Friday to get life-cycle cost analysis tool. Maybe we could use this tool for system wide application. Jewel will share with Janika. John reported ES course with students working on CAP sections that will have 10 reports to help with the plan.