**eGen SWATeam Meeting**

April 3rd, 2019

2pm-3pm

NSRC 376

**Attendees:** Yu-Feng Lin (chair), Andrew Stumpf, Tim Mies, Mike Larson, Gabriel Mishaan, Ximing Cai, Taylor Holin (clerk)

1. Approval of last meeting’s minutes
2. Update on cooperation between SSC and SWATeams (Gabriel Mishaan)
   1. SSC is interested in working with the SWATeams to help consult on projects
   2. Challenge: establishing formal channels of communication
      1. SSC Box that holds all the project info
      2. Voting cycle for this year is almost over
   3. Working on building this relationship is something to work on for the fall
   4. Everyone is more than welcome to attend any SSC meetings to begin this interaction between the two groups
      1. Upcoming meetings:
         1. April 5th
            1. Energy Working Group
         2. April 8th
            1. Education Working Group
            2. Land and Water Working Group
            3. Biweekly meeting
            4. Transportation Working Group
         3. April 13th
            1. Step 2 Voting Meeting
         4. April 22nd
            1. Biweekly Meeting
   5. Yu-Feng Lin offered up to create a presentation to increase education and awareness among students to present at a SSC meeting
   6. **ACTION ITEM**: Keep in contact with SSC to continue this discussion and see what else SWATeams can do to get involved
3. Final thoughts on iCAP Chapter Evaluation sheet (All)
   1. Due April 15th
   2. Nothing on NCSA yet for Objective 3.4; Morgan White is talking to them this week to get an update
   3. Get some measurement metrics, feel free to make suggestions regarding this (Ximing Cai)
      1. Suggestions for qualitative metrics would be helpful for this process
   4. **ACTION ITEMS**:
      1. Think about measurement metrics, make suggestions
      2. Make final additions, edit, and submit (Taylor Holin)
4. Discussion on potential recommendations (Ximing Cai)
   1. Are there any major recommendations for iWG to discuss?
   2. Submit recommendations before the end of the semester
   3. **ACTION ITEMS**: Make recommendations to submit for future iWG meeting (June)
      1. Think about major recommendations (examples):
         1. Look into battery storage
         2. Investment in geothermal projects; large-scale installation
            1. Example: “By the next 5 years, we want to see x amount of geothermal installed in campus”
         3. Partnership between F&S and service groups
         4. Buy more recs to reach carbon neutrality
5. Discussion on the recommendation for addition to ethics training (Ximing Cai, Andrew Stumpf)
   1. Teams working together to create an additional 15 minutes to the ethics training that each student has to complete at the beginning of the year to increase education and awareness on energy savings, etc.
   2. Our team can add knowledge to this project
6. Budget Formula Update (Ximing Cai)
   1. New budget formula for utilities at the college-level
   2. Each college has to be individually responsible for the energy uses for their own buildings
   3. Borrowing some concepts from the Yale model
   4. 2020 iCAP will have to consider this plan and tie our recommendations in with this
7. Solar Farm 2.0 (Ximing Cai)
   1. Got contracts, may start construction in the summer
   2. Assessment for Solar Farm 3 economics, carbon reductions for presentation -- Preparing a meeting to discuss how to make this happen
   3. Purchasing more renewable energy (solar) from other communities
8. Inquiries on geothermal projects (Yu-Feng Lin)
   1. Current focus is on subsurface geothermal projects
   2. Look to increase knowledge on surface applications?
      1. Adding an expert in this field to the team can potentially make us stronger, more well-rounded
         1. Who would this be? Mechanical Engineer? Someone else?
            1. Depends on goals (ex: make our campus really efficient on geothermal), what kind of people should we look for to help us get this job done?
      2. Yu-Feng Lin needs to have more discussion with people to see which route to take but wants feedback from team on what people we should be looking for, how we can make our campus team stronger
      3. Question: do we have capacity for someone? (long-term)
         1. Opportunity is in a 10-year scope; see if we can pave our way past 2020
      4. **ACTION ITEM**: Input on this topic from team members
         1. Academic research, someone from another type of research, outside offices to make our effort stronger
         2. We have subsurface covered, but want to expand our scope
9. Discussion of Earth Month Events
   1. Opportunity to increase education and awareness among students
   2. Open House of Energy Farm (Tim Mies)
      1. How can we make this a highly attended event?
10. 2020 iCAP
    1. 5-year plan approved by the Chancellor
    2. Draft ready by the end of this year
    3. In the spring of 2020 it needs to be launched
    4. Our role:
       1. Development of new targets (Ex: use of metrics)
       2. Consider the current and potential changes to the format of the SWATeam
       3. Combinations of SWATeam (ex: can the two energy teams be put together?)
       4. Pretty open-ended, iSEE looking for whatever feedback we have
       5. Make suggestions and evaluation through the iCAP Chapter Evaluation sheet which is due April 15th
11. In need of further discussion:
    1. Metrics to recommend for 2020 iCAP: there are no clear metrics to use currently (opportunity for us to become a leader by defining contribution of geothermal energy exchange)
12. **ACTION ITEMS:**
    1. Keep in contact with SSC to continue this discussion and see what else SWATeams can do to get involved (Gabriel Mashaan)
    2. Think about potential recommendations for iWG (ALL)
       1. Send out iWG recommendation template to team (Taylor Holin)
    3. Think about question posed by Yu-Feng Lin: Who can we add to our team to make us stronger in regard to surface geothermal work
    4. Make final additions to the iCAP Chapter Evaluation sheet (Due April 15th)
       1. Think about measurement metrics, make suggestions
13. Next meeting
    1. TBD - poll to be sent out
14. Adjournment