

ACADEMIC SENATE – Sustainability Committee (ASSC)
Fall 2018

(See also attached meetings minutes.)

MEMBERS	
Name	College/Unit
Bennett, Penny	Admin / CLA/AssocDean
Braun, David	CENG / EE
Chiu, Yiwen	CAFES / NRES
Dumars, Jeffery	Admin / FacPlang
Elliot, Dennis	Admin / FacSrvcs/Enrg,Ut&Sustain
Fernsler, Jonathan	CSM / Physics
Moore, Rob	ASI / Pol. Sci.
Peters, Jason	CLA / English
Reich, Jonathan (CH)	CAED / Arch
Kylee Singh	Admin / Enrg,Ut&Sust
Winslow, Dianna	Admin / CTLT
Vacant	OCOB
Vacant	PCS
Vacant	ASI

CHARGES		
Charge	Complete?	Status/Notes (If not complete, provide expected completion date)
Develop and pilot more SLOs assessments of courses for SUSCAT. ¹ Ongoing	<input type="checkbox"/>	<i>Ongoing. ASSC will review new courses in 2017-2019 catalogue for SUSCAT Winter 2019.</i>
Work with GEGB to develop sustainable pathways in GE. On-going.	<input type="checkbox"/>	<i>ASSC participated in Academic Senate retreat in September 2018 and noted laudatory comments about ASSC GE pathways proposal in AS Chair Stegner's public concluding comments.</i>
Respond to AS-787-14 1. Review new courses in the 2017-2019 catalog for SUSCAT. Spring 2019 2. Encourage faculty to teach sustainability in new and existing courses. Ongoing 3. Work with the CTLT to provide support for faculty seeking to teach classes involving sustainability. Ongoing	<input type="checkbox"/>	1. On-going and continued to Winter 2019. 2. On-going and continued to Winter 2019. 3. ASSC has been working closely with CTLT so much so that CTLT Writing Specialist Dianna Winslow has become a member of ASSC as Academic Programs & Planning Rep.
Develop procedures to identify sustainability courses in catalog and on PASS. Ongoing due to ITS issues which Academic Chair Stegner confirmed during the September 2018 Academic Senate Retreat.	<input type="checkbox"/>	<ul style="list-style-type: none"> - Kylee Singh (heroically) completed transfer of SUSCAT from the old ad-hoc location in CENG to website https://suscat.calpoly.edu which serves as the "home" website for SUSCAT info. - She also set up google analytics to understand its use. - She set up a OneDrive file for managing the process of courses as they are submitted, in review, or approved to keep ASSC organized in its charge of keeping SUSCAT up to date. - She is setting up a general email address for SUSCAT related communications which will be: suscat@calpoly.edu. <p>Some remaining questions: Can we get Academic Affairs to host the SUSCAT website? Should we have a rep from ITS on the ASSC? ASSC remains concerned about the delays in advancing visibility of SUSCAT courses in the catalogue (green leaf) and on PASS (filter). We discussed the possibility of asking the Provost to prompt ITS to move on this. We discussed having a meeting with Cem Sunata, Susan Olivas, Acad. Sen. Curr. Comm. Chair Greg Bohr, to clarify (look for guidance) next steps in SUSCAT's visibility in the Catalogue</p>

		and on PASS. Waitlist for ITS services discussed. We discussed enlisting support from CSU system wide sustainability coordinator as well. This item was continued to Winter Quarter.
Respond to 2014 CSU Sustainability Policy directives. Ongoing		
1. "The CSU will seek to further integrate sustainability into the academic curriculum working within the normal campus consultative process.	<input type="checkbox"/>	1. Four ASSC members: Bennett, Moore, Peters, Winslow , are on GE Area Task Force working groups to promote sustainable pathways in GE.
2. The CSU will develop employee and student workforce skills in the green jobs industry, prompt the development of sustainable products and services, and foster economic development."		2. No work on this charge Fall quarter. In Winter Quarter 2019 we anticipate discussing the emerging "Green New Deal" proposal being advanced nationally by progressive members of congress.
Support campus efforts to improve Cal Poly's AASHE STARS certification credits. Ongoing	<input type="checkbox"/>	The main effort in this area is to increase the number of courses in SUSCAT. This effort is on-going and will pick up in Winter 2019 with review of new courses in the 2017-2019 catalogue.
Support campus efforts towards the Second Nature Climate Commitment. ³ Ongoing	<input type="checkbox"/>	No specific progress this quarter.
Work with students to better integrate approaches to sustainability inside and outside the classroom curriculum. Ongoing	<input type="checkbox"/>	- ASSC member Kylee Singh continues to lead remarkably effective student "Green Team" on many campus initiatives such as the Cal Poly Food Day event in October. - ASSC Chair Reich established an excellent process and list of sustainability related events both on and off campus for students to attend as part of the flag ship class EDES.406.
Follow up the April 2017 Sustainability Charrette Action Items. Spring 2018		
1. Define a Cal Poly Statement on sustainability and integrate into the hiring process.	<input type="checkbox"/>	← No specific actions were undertaken in Fall 2018 for items #1-3.
2. Study how Cal Poly might implement a sustainability graduation requirement.		
3. Define organization and responsibilities for a Cal Poly Office of Sustainability.		

¹ www.academicprograms.calpoly.edu/content/academicpolicies/sustainability_lo

² www.academicsenate.calpoly.edu/content/acadsen_comm/sustainability

³ <http://secondnature.org/wp-content/uploads/2015/09/Climate-Commitment-Second-Nature.pdf>

NOTES:

The Academic Sustainability Committee (ASSC) met 4 times in Fall quarter 2018. Meeting minutes are attached herewith.

1. Friday Oct. 19 at 12:10 – 1:00pm

2. Thursday Nov. 1 at 4:10 - 5:00pm

3. Thursday Nov. 8 at 4:10 - 5:00pm

4. Tuesday Nov. 13 at 1:10 - 2:00pm

5. ~~Thursday Nov. 29 at 4:10 – 5:00pm~~ (This meeting was cancelled)

Cal Poly Sustainability Learning Objectives: ¹

Cal Poly defines sustainability as the ability of the natural and social systems to survive and thrive together to meet current and future needs.

In order to consider sustainability when making reasoned decisions, all graduating students should be able to:

- Define and apply sustainability principles within their academic programs
- Explain how natural, economic, and social systems interact to foster or prevent sustainability
- Analyze and explain local, national, and global sustainability using a multidisciplinary approach
- Consider sustainability principles while developing personal and professional values

Academic Senate Resolution 688-09 approved by President Baker June 22, 2009

Academic Senate Sustainability Committee (ASSC)

Minutes

Fall 2018

Meeting Date: Nov. 13, 2018 at 1:10pm

Meeting Convened: 1:12pm

Minutes Recorded By: Jonathan Reich

ATTENDANCE:

☐ Bennett, Penny, CLA/AssocDean, Admin (EO)
☒ Braun, David, ElecEngr Faculty CENG
☐ Chiu, Yiwen, NRES Faculty CAFES
☐ Cartwright, Lauren, Student, ASI Rep (EO)
☐ Dumars, Jeffrey, FacPng VP/Adm&Fin Rep (EO)

☐ Elliot, Dennis, FacSvcs, VP/Adm&Fin Rep (EO)
☐ Fernsler, Jonathan, Physics Faculty CSM
☐ Moore, Rob, Student, ASI Rep (EO)
☐ Peters, Jason, English Faculty, CLA
☐ Rastad, Mahdi, Finance faculty, OCOB

☒ Reich, Jonathan (CH) Arch Faculty CAED
☒ Kylee Singh, Enrg&Sustain Admin (EO)
☐ Winslow, Dianna CTLT VP Prog&Png Rep (EO)
☐ Vacant, PCS Rep (EO)

APOLOGIES: Kylee Singh (on leave)

GUESTS:

QUORUM: Required attendance of committee for quorum is 7/12

Committee members present: ____

Quorum?: ☐ Yes ☒ No

AGENDA:

1. Review/Approve ASSC Nov. 8th Minutes.

Not approved due to no quorum.

2. ASSC membership: Still need PCS Rep for ASSC.

No change.

3. Review Draft of ASSC Resolution to improve how "sustainability" is addressed in Cal Poly's Strategic Plan.

See: <http://strategicplanning.calpoly.edu> & <http://strategicplanning.calpoly.edu/wp-content/uploads/2018/09/Cal-Poly-Strategic-Plan-Draft-Extended-Version.pdf>
Braun previously shared a petition that is circulating to gather support for this effort.

It's at: <https://forms.office.com/Pages/ResponsePage.aspx?id=2wING578IUSVNX03nMoq5xmvPuuj2zRCksbYAeOs-Q9UNU9UUkRWFNROFBFMdVOFdMREwyTTcwRy4u>
Braun drafted, and Jason Peters edited, a resolution for the ASSC to consider which is attached.

For discussion: What exactly do we want to be included in the Strategic Plan Re. sustainability? See annotated draft resolution attached.
What do the AASHE STARS platinum rated universities' strategic plans say?

University New Hampshire: <https://stars.aashe.org/institutions/university-of-new-hampshire-nh/report/2018-02-27/PA/coordination-planning/PA-2/> & https://www.unh.edu/sites/default/files/departments/president/media/StrategicPlan_FINAL_052015.pdf

UC Irvine: <https://stars.aashe.org/institutions/university-of-california-irvine-ca/report/2018-03-28/PA/coordination-planning/PA-2/> & <https://strategicplan.uci.edu/>

CU Boulder: <https://stars.aashe.org/institutions/colorado-state-university-co/report/2017-02-07/PA/coordination-planning/PA-2/> & <https://provost.colostate.edu/strategic-plan/>

The word "sustainability" did not appear in President Armstrong's "Vision 2022."

"President Armstrong presented Vision 2022 to the campus community in May of 2014. He prepared Vision 2022 after participating in many listening sessions with faculty, staff and students, consultations with the Academic Senate and Associated Students Inc. and discussions about Cal Poly's future with alumni and other stakeholders. Vision 2022 is an aspirational view of Cal Poly as the only comprehensive polytechnic university in the nation. It formed the basis for Academic Enrollment planning, Master Planning and today, for the Cal Poly Strategic Plan." <http://strategicplanning.calpoly.edu>

The word "sustainability" rarely appears in the "Academic Plan":

- Once on P-12 of the "2014-15 Academic Plan Report: Analysis of Cal Poly's Future Leadership Opportunities and Preliminary Recommendations DRAFT Executive Summary, Revised September 4, 2015" related to "Emerging Fields and Integrated Learning" &
- Once in the classroom section in reference to Cal Poly's ULOs
- More often in the 1/23/15 PPT Presentation: http://guides.lib.calpoly.edu/ld.php?content_id=10532969

Cal Poly also has a **Climate Action Plan**. https://afd.calpoly.edu/sustainability/campus_resources/climate_action

How does this formally relate to the "Strategic Plan"? It's included in Goal 7D.

Does Cal Poly's new **Master Plan** formally incorporate the **Climate Action Plan**?

The three of us present discussed the "Strategic Plan" and proposed:

- Reach out to Keith Humphries & Jamie Patton about it.
- Add a "strategic priority" using Braun's suggested language.

- #### 4. Other news / business:
- Future direction of ASSC in moving initiatives forward:
 - Re. specific incentives for efforts that advance CSU & Cal Poly sustainability policies in ARPT, Prof. Pete Schwartz forwarded recommendation from Physics Sustainability Committee:
 - Progress on "SUSCAT filter on PASS" initiative (Braun)
 - Discuss issue of Including Sustainability in Faculty Recruitment

HANDOUTS:

- Check out CSU Sustainability Report: <https://www2.calstate.edu/impact-of-the-csu/sustainability/Documents/2014-17-Sustainability.pdf>
- Check out these two UCLA programs: <http://healthy.ucla.edu> & <https://www.ioes.ucla.edu/sar/>. What's the difference...?
- Also check out this about the enviable Center for Agroecology & Sustainable Food Systems at UC, Santa Cruz: <https://www.nytimes.com/2015/09/15/opinion/mark-bittman-the-roots-of-organic-farming.html>

MEETING(s) ADJOURNED: 2:00pm

ASSC Fall Quarter 2018 Meetings (will be in Architecture Building #05-201A):

1. Friday Oct. 19 at 12:10 – 1:00pm (Bennett, Braun, Chiu, Dumars, Moore, Peters, Singh, Winslow, JReich)
2. Thursday Nov. 1 at 4:10 – 5:00pm (Braun, Dumars, Elliot, Fernsler, Moore, Singh, JReich)
3. Thursday Nov. 8 at 4:10 – 5:00pm (Tentative) (Braun, Dumars, Elliot, Fernsler, Moore, Peters, Singh, JReich)
4. Tuesday Nov. 13 at 4:10 – 2:00pm (Braun, Dumars, Elliot, Moore, Peters, Winslow, JReich)
5. Thursday Nov. 29 at 4:10 – 5:00pm (Braun, Dumars, Elliot, Fernsler, Moore, Peters, JReich)

Academic Senate Sustainability Committee 2018-2019 :

Name	Department	College/Unit	Office	email@calpoly.edu	Exp Term
Bennett, Penny	CLA/AssocDean	Admin	62408	pkbennet	EO (Acad.Dean)
Braun, David	Elec. Engrg	CENG	61464	dbraun	2020
Cartwright, Lauren	Student	ASI	61281	lncartwr	EO (ASI) ??
Chiu, Yiwen	NRES	CAFES	62972	yichiu	2019
Dumars, Jeffrey	FacPlang	Admin	66588	jdumars	EO (Dir/FacPlng)
Elliot, Dennis	FacSrvcs/Enrg,Ut&Sustain	Admin	62090	delliot	EO (VP/Adm&Fin))
Fernsler, Jonathan	Physics	CSM	62438	jfernsl	2020
Moore, Rob	Student	ASI	61281	rmoore30	EO (ASI)
Peters, Jason	English	CLA	62862	jpeter65	2020
Rastad, Mahdi	Finance	OCOB	62922	mrastad	2020
Reich, Jonathan (CH)	Arch	CAED	805-801-8848	jreich	2019
Singh, Kylee	Enrg,Ut&Sust	Admin	65397	klsingh	EO (Enrg,Ut&Sust)
Winslow, Dianna	CTLT	Admin	67526	dwinslo	EO (VP Acad Prog&Plng)
Vacant	-----	PCS	-----	-----	2019 ??

Cal Poly Sustainability Learning Objectives ("SLOs"):¹

Cal Poly defines sustainability as the ability of the natural and social systems to survive and thrive together to meet current and future needs.

In order to consider sustainability when making reasoned decisions, all graduating students should be able to:

- Define and apply sustainability principles within their academic programs
- Explain how natural, economic, and social systems interact to foster or prevent sustainability
- Analyze and explain local, national, and global sustainability using a multidisciplinary approach
- Consider sustainability principles while developing personal and professional values

Academic Senate Resolution 688-09 approved by President Baker June 22, 2009

ASSC Committee Charges for 2018-19:²**Responsibilities:**

The Sustainability Committee shall inform and support the activities of other committees whose scope encompasses environmental responsibility. The Sustainability Committee shall make recommendations to the Academic Senate, as appropriate, regarding the provisions of the Talloires Declaration (AS-622-04) and the CSU Sustainability Policy.

Charges:

- Develop and pilot more SLOs assessments. Ongoing
- Respond to AS-787-14
 1. Review new courses in the 2017-2019 catalog for SUSCAT. Fall 2018
 2. Encourage faculty to teach sustainability in new and existing courses. Ongoing
 3. Work with the CTLT to provide support for faculty seeking to teach classes involving sustainability. Ongoing
- Develop procedures to identify sustainability courses in catalog and on PASS. Fall 2018
- Respond to 2014 CSU Sustainability Policy directives. Ongoing
 1. "The CSU will seek to further integrate sustainability into the academic Curriculum working within the normal campus consultative process
 2. The CSU will develop employee and student workforce skills in the green jobs industry, prompt the development of sustainable products and services, and foster economic development.
- Support campus efforts to improve Cal Poly's AASHE STARS certification credits. Ongoing
- Work with students to better integrate approaches to sustainability inside and outside the classroom curriculum. Ongoing
- Follow up the April 2017 Sustainability Charrette Action Items. Fall 2018
 1. Define a Cal Poly statement on sustainability and integrate into the hiring process
 2. Study how Cal Poly might implement a sustainability graduation requirement
 3. Define organization and responsibilities for a Cal Poly Office of Sustainability
- Work with GEGB to develop sustainability pathways in GE.

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³ <http://secondnature.org/wp-content/uploads/2015/09/Climate-Commitment-Second-Nature.pdf>

From: Gladys E. Gregory
Sent: Wednesday, May 9, 2018 1:41 PM
To: Jonathan W. Reich
Subject: Re: A Couple of Names Were Suggested for PCS Vacancy On Academic Senate Sustainability Committee

Hi Jonathan,

Here are the names of folks who are considered members of PCS.

Aagaard, Sofie J.	Mason, Davona Adrianna	Argens, Mackenzie Elizabeth
Allen-Barker, Jennifer C.	Medina-Maloney, Delfina	Bayley, Priscilla Marie
Baltierrez, Nury Annain	Mitchell, Judy A.	Bergheger, Sara Elizabeth
Barnett, Nayree Lynette	Nafisi, Mitra Z.	Borchin, Jason R.
Bergman, Damie Anya	Nelson, Christine Irish	Brown, Allen D.
Bieraugel, Mark David	O'Brien, Katelyn	Brown, Joshua Isiah
Bobell, Jennifer Ruth	O'Clair, Katherine Elizabeth	Byrd, Kelsey Louise
Bodemer, Brett William Barnhill	Otis, Sara Jane	Carda, Allyson Nicole
Bussert, Kaila J.	Parker, Pamela D.	Carless, Nicholas Earl
Canady, Sabrina Ann	Pitkin, Cassie Evelyn	Cartwright, Lionel Scott
Castaneda, Daisy Guadalupe	Rinaldi-Zuniga, Charlotte M.	Craft, James Robert
Clark, Lillian Vale	Roldan, Gregory Mark	Crozier, Alex G.
Duerr, Jaclyn L.	Rollins, Barbara A.	Duperron, Kari Anne
Eberle, Ashley Marie	Ross, Kyle E.	Fanning, Chal W.
Elliott, Allison Marie	Ross, Stephen D.	Ferrigno, Daniel Patrick
Farrier Nolan, Meghan Larissa	Scaramozzino, Jeanine M.	Graves, Daniel Robert
Forzetting, Trevor G.	Schechter, Monica M.	Holder, Christopher R.
Garcia-Specht, Adrienne Elizabeth	Simmons, Hunter Anthony	Kirby, Jr., Samuel Clayton
Head, Carly Elisabeth	Thomas, Gregory W.	Londo, Benjamin Joseph
Hooper, Craig N.	Torgerson, Louise E.	Milich, Thomas M.
Hunkler, Laura Ann	Tutt, Christina	Reaves, Mitchell A.
Igarta, Seth D.	Vestermack, Jesse A.	Rogers, Todd J.
Irwin, Lauren Nicole	Vinther, Kirsten E.	Sioeredas, Jonathan P.
Johnson, Rachel D.	Vowell, Zachary Wayne	Thompson, Aristotle DeQuincy
Jorgenson, Erica E.	Weddige, Kristi Suzanne	Vecchione, Gina M.
Korth, Dianne Novo	Wolfe Chandler, Christina Renee	Walters, Caroline A.
Kyker, Bradley W.	Zavala, Maria De Los Angeles	Warrecker, Theodore Adam
Leon, Jose Miguel Pulido		Winterhalter, Katharina Franziska
Martin, Lyzette Monique		
Martin, Tammy S.		

If you have any questions, please don't hesitate to contact me.
Thank you,

~~~~~  
**Gladys Gregory**, Academic Senate Office Coordinator  
California Polytechnic State University, San Luis Obispo, California  
805-756-1258  
ggregory@calpoly.edu  
academicsenate.calpoly.edu

**Academic Senate Sustainability Committee (ASSC)****Minutes****Fall 2018****Meeting Date: Nov. 8, 2018 at 4:10pm****Meeting Convened: 4:11pm**

Minutes Recorded By: Jonathan Reich

**ATTENDANCE:**☐ Bennett, Penny, CLA/AssocDean, Admin (EO)☒ Braun, David, ElecEngr Faculty CENG☐ Chiu, Yiwen, NRES Faculty CAFES☐ Cartwright, Lauren, Student, ASI Rep (EO)☒ Dumars, Jeffrey, FacPIng VP/Adm&Fin Rep (EO)☐ Elliot, Dennis, FacSvcs, VP/Adm&Fin Rep (EO)☐ Fernsler, Jonathan, Physics Faculty CSM☒ Moore, Rob, Student, ASI Rep (EO)☒ Peters, Jason, English Faculty, CLA☐ Rastad, Mahdi, Finance faculty, OCOB☒ Reich, Jonathan (CH) Arch Faculty CAED☒ Kylee Singh, Enrg&Sustain Admin (EO)☐ Winslow, Dianna CTLT VP Prog&PIng Rep (EO)☐ Vacant, PCS Rep (EO)**APOLOGIES:****GUESTS:****QUORUM:** Required attendance of committee for quorum is 7/12

Committee members present: \_\_\_\_

Quorum?: ☐ Yes ☒ No**AGENDA:****1. Review/Approve ASSC Nov. 1st Minutes.****2. ASSC membership:** Still need PCS Rep for ASSC. JReich had reached out to Maria Zavala as recommended but has still not heard back.**3. Review new process for updating SUSCAT as courses are applied for, rubric-ed, and approved.**

Kylee Singh has (heroically) completed transfer of SUSCAT from the old ad-hoc location in CENG to website <https://suscat.calpoly.edu> which serves as the "home" website for SUSCAT info.

- She has also set up google analytics to understand its use.

- She set up a OneDrive file for managing the process of courses as they are submitted, in review, or approved to keep ASSC organized in its charge of keeping SUSCAT up to date. [https://cplio-my.sharepoint.com/personal/klsingh\\_calpoly\\_edu/\\_layouts/15/onedrive.aspx?slid=ec51b89e-a062-8000-eb8a-195d1d1c908c&id=%2fpersonal%2fklsingh\\_calpoly\\_edu%2fDocuments%2fSusCat+approval+and+updates&FolderCTID=0x012000A44AD604AF628C42B3BE3F2EB383912F](https://cplio-my.sharepoint.com/personal/klsingh_calpoly_edu/_layouts/15/onedrive.aspx?slid=ec51b89e-a062-8000-eb8a-195d1d1c908c&id=%2fpersonal%2fklsingh_calpoly_edu%2fDocuments%2fSusCat+approval+and+updates&FolderCTID=0x012000A44AD604AF628C42B3BE3F2EB383912F)

- She is setting up a general email address for SUSCAT related communications which will be: [suscat@calpoly.edu](mailto:suscat@calpoly.edu)

**Some remaining questions:**

Can we get Academic Affairs to host the SUSCAT website?

Should we have a rep from ITS on the ASSC?

**4. Review Draft of ASSC Resolution to improve how "sustainability" is addressed in Cal Poly's Strategic Plan.**

See: <http://strategicplanning.calpoly.edu> & <http://strategicplanning.calpoly.edu/wp-content/uploads/2018/09/Cal-Poly-Strategic-Plan-Draft-Extended-Version.pdf>

Braun previously shared a petition that is circulating to gather support for this effort.

It's at: <https://forms.office.com/Pages/ResponsePage.aspx?id=2wtNG578IUSVNx03nMog5xmivPuuj2zRCksbYAE0s-Q9UNU9UUkRFWFNROFBFM0dVOFdmREwvTTcwRy4u>

Braun drafted, and Jason Peters edited, a resolution for the ASSC to consider which is attached.

Discussion of this item was brief and inconclusive. Discussion indicated lack of certainty of how to proceed...Item continued to next meeting.

- 5. Other news / business:**
- Future direction of ASSC in moving initiatives forward:
  - Re. specific incentives for efforts that advance CSU & Cal Poly sustainability policies in ARPT, Prof. Pete Schwartz forwarded recommendation from Physics Sustainability Committee:
  - Progress on "SUSCAT filter on PASS" initiative (Braun)
  - Discuss issue of Including Sustainability in Faculty Recruitment

**HANDOUTS:**

- Check out CSU Sustainability Report: <https://www2.calstate.edu/impact-of-the-csu/sustainability/Documents/2014-17-Sustainability.pdf>
- Check out these two UCLA programs: <http://healthy.ucla.edu> & <https://www.ioes.ucla.edu/sar/>. What's the difference...?
- Also check out this about the enviable Center for Agroecology & Sustainable Food Systems at UC, Santa Cruz: <https://www.nytimes.com/2015/09/15/opinion/mark-bittman-the-roots-of-organic-farming.html>

**MEETING(s) ADJOURNED: 5:00pm**

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|----------------------|-------------------------|--------------|--------------|-------------------|-------------------|
| Bennett, Penny       | CLA/AssocDean           | Admin        | 62408        | pkbennet          | EO (Acad.Dean)    |
| Braun, David         | Elec. Engrg             | CENG         | 61464        | dbraun            | 2020              |
| Cartwright, Lauren   | Student                 | ASI          | 61281        | lcartwr           | EO (ASI) ??       |
| Chiu, Yiwen          | NRES                    | CAFES        | 62972        | yichiu            | 2019              |
| Dumars, Jeffrey      | FacPlang                | Admin        | 66588        | jdumars           | EO (Dir/FacPlng)  |
| Elliot, Dennis       | FacSvcs/Enrg,Ut&Sustain | Admin        | 62090        | delliot           | EO (VP/Adm&Fin)   |
| Fernsler, Jonathan   | Physics                 | CSM          | 62438        | jfernslr          | 2020              |
| Moore, Rob           | Student                 | ASI          | 61281        | rmoore30          | EO (ASI)          |
| Peters, Jason        | English                 | CLA          | 62862        | jpeter65          | 2020              |
| Rastad, Mahdi        | Finance                 | OCOB         | 62922        | mrastad           | 2020              |
| Reich, Jonathan (CH) | Arch                    | CAED         | 805-801-8848 | jreich            | 2019              |
| Singh, Kylee         | Enrg,Ut&Sust            | Admin        | 65397        | klsingh           | EO (Enrg,Ut&Sust) |
| Winslow, Dianna      | CTLT                    | Admin        | 67526        | dwinslo           | EO (VP/Adm&Fin)   |
| Vacant               | -----                   | PCS          | -----        | -----             | 2019 ??           |

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**Responsibilities:**

The Sustainability Committee shall inform and support the activities of other committees whose scope encompasses environmental responsibility. The Sustainability Committee shall make recommendations to the Academic Senate, as appropriate, regarding the provisions of the Talloires Declaration (AS-622-04) and the CSU Sustainability Policy.

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- Work with GEGB to develop sustainability pathways in GE.

<sup>1</sup> [www.academicprograms.calpoly.edu/content/academicpolicies/sustainability\\_lo](http://www.academicprograms.calpoly.edu/content/academicpolicies/sustainability_lo)

<sup>2</sup> [www.academicsenate.calpoly.edu/content/acadsen\\_comm/sustainability](http://www.academicsenate.calpoly.edu/content/acadsen_comm/sustainability)

<sup>3</sup> <http://secondnature.org/wp-content/uploads/2015/09/Climate-Commitment-Second-Nature.pdf>

From: Gladys E. Gregory  
Sent: Wednesday, May 9, 2018 1:41 PM  
To: Jonathan W. Reich  
Subject: Re: A Couple of Names Were Suggested for PCS Vacancy On Academic Senate Sustainability Committee

**Hi Jonathan,**

Here are the names of folks who are considered members of PCS.

|                                   |                                 |                                   |
|-----------------------------------|---------------------------------|-----------------------------------|
| Aagaard, Sofie J.                 | Mason, Davona Adrianna          | Argens, Mackenzie Elizabeth       |
| Allen-Barker, Jennifer C.         | Medina-Maloney, Delfina         | Bayley, Priscilla Marie           |
| Baltierrez, Nury Annain           | Mitchell, Judy A.               | Bergheger, Sara Elizabeth         |
| Barnett, Nayree Lynette           | Nafisi, Mitra Z.                | Borchin, Jason R.                 |
| Bergman, Damie Anya               | Nelson, Christine Irish         | Brown, Allen D.                   |
| Bieraugel, Mark David             | O'Brien, Katelyn                | Brown, Joshua Isiah               |
| Bobell, Jennifer Ruth             | O'Clair, Katherine Elizabeth    | Byrd, Kelsey Louise               |
| Bodemer, Brett William Barnhill   | Otis, Sara Jane                 | Carda, Allyson Nicole             |
| Busserf, Kaila J.                 | Parker, Pamela D.               | Carless, Nicholas Earl            |
| Canady, Sabrina Ann               | Pitkin, Cassie Evelyn           | Cartwright, Lionel Scott          |
| Castaneda, Daisy Guadalupe        | Rinaldi-Zuniga, Charlotte M.    | Craft, James Robert               |
| Clark, Lillian Vale               | Roldan, Gregory Mark            | Crozier, Alex G.                  |
| Duerr, Jaclyn L.                  | Rollins, Barbara A.             | Duperron, Kari Anne               |
| Eberle, Ashley Marie              | Ross, Kyle E.                   | Fanning, Chal W.                  |
| Elliott, Allison Marie            | Ross, Stephen D.                | Ferrigno, Daniel Patrick          |
| Farrier Nolan, Meghan Larissa     | Scaramozzino, Jeanine M.        | Graves, Daniel Robert             |
| Forzetting, Trevor G.             | Schechter, Monica M.            | Holder, Christopher R.            |
| Garcia-Specht, Adrienne Elizabeth | Simmons, Hunter Anthony         | Kirby, Jr., Samuel Clayton        |
| Head, Carly Elisabeth             | Thomas, Gregory W.              | Londo, Benjamin Joseph            |
| Hooper, Craig N.                  | Torgerson, Louise E.            | Milich, Thomas M.                 |
| Hunkler, Laura Ann                | Tutt, Christina                 | Reaves, Mitchell A.               |
| Igarta, Seth D.                   | Vestermark, Jesse A.            | Rogers, Todd J.                   |
| Irwin, Lauren Nicole              | Vinther, Kirsten E.             | Sioresdas, Jonathan P.            |
| Johnson, Rachel D.                | Vowell, Zachary Wayne           | Thompson, Aristotle DeQuincy      |
| Jorgenson, Erica E.               | Weddige, Kristi Suzanne         | Vecchione, Gina M.                |
| Korth, Dianne Novo                | Wolfe Chandler, Christina Renee | Walters, Caroline A.              |
| Kyker, Bradley W.                 | Zavala, Maria De Los Angeles    | Warrecker, Theodore Adam          |
| Leon, Jose Miguel Pulido          |                                 | Winterhalter, Katharina Franziska |
| Martin, Lyzette Monique           |                                 |                                   |
| Martin, Tammy S.                  |                                 |                                   |

If you have any questions, please don't hesitate to contact me.  
Thank you,

---

Gladys Gregory, Academic Senate Office Coordinator  
California Polytechnic State University, San Luis Obispo, California  
805-756-1258  
ggregory@calpoly.edu  
academicsenate.calpoly.edu

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Responsibility | Consistency | Input | Deliberative | Relator



Adopted:

**ACADEMIC SENATE**  
of  
**CALIFORNIA POLYTECHNIC STATE UNIVERSITY**  
**San Luis Obispo, CA**

AS-18

**RESOLUTION TO INCLUDE SUSTAINABILITY IN THE CAL POLY STRATEGIC PLAN**

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1 WHEREAS, In May 2003, the Academic Senate endorsed the Talloires Declaration; and

2 WHEREAS, In August 2003 President Warren Baker signed the Talloires Declaration; and

3 WHEREAS, By signing the Talloires Declaration, Cal Poly endorsed its 10 point action plan to  
4 create a sustainable future; and

5 WHEREAS, The 2014 CSU Sustainability Policy "aims not only to reduce the university's impact on  
6 the environment and educate our students, faculty and staff on sustainable practices, but  
7 also to incorporate sustainability principles and climate science in our educational  
8 offerings;" and

9 WHEREAS, In 2016, President Armstrong "chose to commit Cal Poly to achieve net zero  
10 greenhouse gas emissions by 2050 and integrate these efforts into curriculum, research,  
11 and student experience through Learn by Doing;" and

12 WHEREAS, In 2016, Cal Poly adopted the AASHE (Association for the Advancement of  
13 Sustainability in Higher Education) STARS (Sustainability Tracking, Assessment, and  
14 Rating System) as a framework for implementation, measurement, and improvement of  
15 sustainable practices across the entire university; and

16 WHEREAS, For Earth Day 2016, President Armstrong signed the Second Nature Climate Leadership  
17 Commitment, committing Cal Poly to achieve carbon neutrality and climate resilience  
18 as soon as possible and infuse these topics into curriculum, research, and student  
19 experience; and

20 WHEREAS, The Sept. 10, 2018 draft Cal Poly Strategic Plan limits reduces our commitment to  
21 sustainability to one item, namely goal 7D, "Make the whole campus environment  
22 smart, resilient, and carbon neutral;" and

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23 WHEREAS, While goal 7D promotes worthy sustainability elements, its limited scope unwisely  
24 undervalues our common future; therefore be it

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RESOLVED: That the strategic plan be revised to more accurately reflect Cal Poly's commitment to  
the Talloires Declaration, the CSU Sustainability Policy, and the AASHE-STARS  
framework; and be it further

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Commented [JJP1]: I'm not sure why we want to end the resolution with this suggestion? It seems like a small ask in light of the rather substantial inadequacies of the current draft of the strategic plan

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Proposed by: Sustainability Committee

Date: November 1, 2018

Revised:

May 25, 2018

To the Academic Senate Sustainability Committee:

I would like to propose AEPS 245 (Horticultural Production Techniques) for inclusion in the Cal Poly Sustainability Catalog. I have attached a course syllabus, which I have annotated to show the content most applicable to sustainability. Each highlighted section of the syllabus contains an end note with relevant commentary, and the color of the highlighting connects the content with the SUSCAT Evaluation Rubric. I believe sustainability is integral to the present and future of horticultural production, so I incorporate sustainability in the fabric of the course throughout the quarter.

In this course students learn about plant nutrients (the dangers of excess, how to determine requirements and calculate rates), substrate ingredients, the use of plastics and alternatives, how to get a nursery certified as sustainable, the dangers of greenwashing, and become prepared to make responsible decisions regarding water in the nursery industry. Concepts of sustainability appear throughout the course in activities, labs, reports, and presentations.

I strive to challenge students to critically think about what sustainability looks like in the horticultural production setting. We talk about specifics and theoretical examples of practices, then evaluate them for sustainability. We also look at how natural, social, and economic pressures affect decision-making related to sustainability. During the quarter we examine the issue of sustainability on local, national, and global levels. My goal is that every student will have considered personal and professional values of sustainability as they relate to horticultural production.

I believe this course belongs in SUSCAT, and I look forward to continuing to raise awareness and understanding of sustainability in horticulture.

Regards,



Dr. Benjamin K. Hoover  
Assistant Professor of Sustainable Nursery Production  
Horticulture and Crop Science Department  
California Polytechnic State University, San Luis Obispo  
Phone: 805-756-6358  
Email: [bkhoover@calpoly.edu](mailto:bkhoover@calpoly.edu)

**AEPS 245**  
**Horticultural Production Techniques**

Fall, 2017

**Instructor:**

Dr. Benjamin K. Hoover  
Office: Building 11, Room 251  
Phone: 805-756-6358  
Email: [bkhoover@calpoly.edu](mailto:bkhoover@calpoly.edu)

**Office Hours:**

Monday: 1:30 pm – 2:30 pm  
Wednesday: 1:30 pm – 2:30 pm  
Thursday: 12:00 pm – 2:00 pm  
Friday: 10:30 am – 11:30 am

**Class Meeting Times:**

Activity: Monday and Wednesday 3:10 pm – 5:00 pm in Building 48, Room 105  
Lab: Thursday, 8:10 am – 11:00 am in Building 48, Room 101

*Midterm Exam: 3:10 – 5:00 pm, Wednesday, October 18, 2017*

*Final Exam: 3:10 pm – 5:00 pm, Wednesday, November 29, 2017*

**Official University Holidays:**

Friday, November 10: Veterans Day Observed (No Classes)

Monday, November 20 to Sunday, November 26: Thanksgiving Break (No Classes)

**Course Goals & Objectives:**

This course will involve discussion, practice, and application of horticultural production techniques with emphases on:

- Physical and chemical properties of container media
- Container function and selection
- Nutrient management in production systems
- Irrigation management in production systems
- Plant growth regulators
- Sustainable practices in horticultural production<sup>1</sup>

**Course Materials:**

Course information and grades will be posted on PolyLearn.

No Required Text. Readings may be assigned during the quarter.

A lab notebook is recommended.

**Academic Integrity:**

In agreement with Cal Poly policy, cheating and plagiarism will not be tolerated in this course. The goal in higher education is to acquire knowledge, think, ask questions, and develop opinions. Copying the work of others undermines the University and the degree which you are seeking. Academic dishonesty is a serious matter that will result in consequences. If you are not familiar with the Cal Poly Standards for Student Conduct you can read about them at <http://www.osrr.calpoly.edu/>

**Disabilities:**

If you have a disability for which you are requesting an accommodation, please contact me and the Disability Resource Center (Building 124, Room 119) as early as possible in the term.  
<http://drc.calpoly.edu/>

## Grading:

Grades will be based on a midterm exam covering material from activities and labs, a cumulative final exam, participation in activities and labs, three lab assignments, three lab reports, a lab final exam, a research paper, and an in-class presentation of the research paper. All assignments must be turned in at the beginning of class on the due date to earn full credit. Grades for assignments turned in late will be reduced (maximum value for a late assignment is a C). No work will be accepted later than one week after the due date, unless otherwise approved.

Grades will be distributed according to the scale below.

Points will be accumulated as follows:

| Task                                          | # Assigned | @ | Points | Total        |
|-----------------------------------------------|------------|---|--------|--------------|
| Midterm Exam <sup>2</sup>                     | 1          |   | 200    | 200          |
| Final Exam <sup>3</sup>                       | 1          |   | 200    | 200          |
| Participation                                 | 1          |   | 100    | 100          |
| Lab Assignments                               | 3          |   | 40     | 120          |
| Lab Reports <sup>4</sup>                      | 2          |   | 90     | 180          |
| Lab Final Exam                                | 1          |   | 50     | 50           |
| Research Paper <sup>5</sup>                   | 1          |   | 75     | 75           |
| Research Presentation/Discussion <sup>6</sup> | 1          |   | 75     | 75           |
| <b>Total</b>                                  |            |   |        | <b>1,000</b> |

| Grade Distribution |              |    |
|--------------------|--------------|----|
| Points             | Letter Grade |    |
| 1000.0 – 930.0     | =            | A  |
| 929.9 – 900.0      | =            | A- |
| 899.9 – 870.0      | =            | B+ |
| 869.9 – 840.0      | =            | B  |
| 839.9 – 800.0      | =            | B- |
| 799.9 – 770.0      | =            | C+ |
| 769.9 – 700.0      | =            | C  |
| 699.9 – 670.0      | =            | D+ |
| 669.9 – 640.0      | =            | D  |
| 639.9 – 600.0      | =            | D- |
| < 600.0            | =            | F  |

## Exams and Quizzes:

Use of a mobile device during an exam or quiz will result in a score of zero. Bathroom breaks are not permitted during exams. Once the exam begins there is a no re-entry policy. Consulting notes during an exam is not permitted. Students may be required to leave backpacks and book bags at the front of the room during tests. Talking during exams and quizzes is not permitted.

## Make-Up Work and Extra Credit:

I do not offer individual extra credit work, make-up labs, or make-up exams unless discussed before the quarter begins.

## Mobile Device Usage:

To minimize distractions, please silence or shut off mobile devices for the duration of class. I reserve the right to levy point penalties for distracting mobile device usage in class or labs. Laptops or tablets may be used during classes, but not during quizzes or exams. Classes and labs may not be recorded without prior permission.

## Laboratory Attire:

For safety reasons closed-toe shoes and socks must be worn during labs. Sandals or flip-flops are not permitted. If you fail to wear proper lab attire you will not be permitted to participate in class.

## Lab Clean-Up and Exit:

We are responsible for cleaning up the lab. The class period is not over until the lab floors and benches are clean. You may be marked as absent if you fail to sign the Lab Sign-Out Sheet at the conclusion of the lab period.

## Syllabus Changes:

I reserve the right to make changes in the syllabus throughout the semester as conditions dictate.



## Tentative Course Outline:

| <b>Week</b> | <b>Date</b>     | <b>Day</b> | <b>Agenda</b>            | <b>Topic</b>                                                                           |
|-------------|-----------------|------------|--------------------------|----------------------------------------------------------------------------------------|
| 1           | 9/14            | Thursday   | Lab 1                    | Experiment Set-Up: Chemical Properties, Sample Prep <sup>7</sup>                       |
| 2           | 9/18            | Monday     | Activity 1               | Introductions, Course Overview, Interests/Goals/Experiences Soil vs Soilless Substrate |
|             | 9/20            | Wednesday  | Activity 2               | Substrates I: Properties, Components                                                   |
|             | 9/21            | Thursday   | Lab 2                    | Substrate Chemical Analyses (pH and EC)                                                |
| 3           | 9/25            | Monday     | Activity 3               | Substrates II: Components, additives                                                   |
|             | 9/27            | Wednesday  | Activity 4               | Substrates III: Nutrients (macro, micro), product discussion                           |
|             | 9/28            | Thursday   | Lab 3                    | Substrate Volume and Porosity                                                          |
| 4           | 10/2            | Monday     | Activity 5               | Plant Nutrients                                                                        |
|             | 10/4            | Wednesday  | Activity 6               | Fertilizers: (WSF, CRF, SRF) <sup>9</sup>                                              |
|             | 10/5            | Thursday   | Lab 4                    | Substrate Water Movement                                                               |
| 5           | 10/9            | Monday     | Activity 7               | Fertilizers: PPM, Equipment <sup>10</sup>                                              |
|             | 10/11           | Wednesday  | Activity 8               | Fertilizers: PPM, Equipment                                                            |
|             | 10/12           | Thursday   | Lab 5                    | Meter Calibration and Fertilizer Solubility                                            |
| 6           | 10/16           | Monday     | Activity 9               | Review                                                                                 |
|             | 10/18           | Wednesday  | Exam                     | Midterm Exam <sup>11</sup>                                                             |
|             | 10/19           | Thursday   | Lab 6                    | Injector Ratios and Solutions <sup>12</sup>                                            |
| 7           | 10/23           | Monday     | Activity 10              | Water Quality (Research Paper Due)                                                     |
|             | 10/25           | Wednesday  | Activity 11              | Irrigation Systems I <sup>13</sup>                                                     |
|             | 10/26           | Thursday   | Lab 7                    | Water Testing                                                                          |
| 8           | 10/30           | Monday     | Activity 12              | Irrigation Systems II <sup>14</sup>                                                    |
|             | 11/1            | Wednesday  | Activity 13              | PGRs                                                                                   |
|             | 11/2            | Thursday   | Lab 8                    | Experiment Harvest and Lab Report Discussion                                           |
| 9           | 11/6            | Monday     | Activity 14              | PGRs II <sup>15</sup>                                                                  |
|             | 11/8            | Wednesday  | Activity 15              | Containers <sup>16</sup>                                                               |
|             | 11/9            | Thursday   | Lab 9                    | Lab Sample Preparation and Containers                                                  |
| 10          | 11/13           | Monday     | Activity 16              | TBD                                                                                    |
|             | 11/15           | Wednesday  | Activity 17              | Sustainability and Green Marketing <sup>17</sup>                                       |
|             | 11/16           | Thursday   | Lab 10                   | Field Trip: SunGro                                                                     |
| 11          | 11/20           | Monday     | Thanksgiving Break       |                                                                                        |
|             | 11/22           | Wednesday  | Thanksgiving Break       |                                                                                        |
|             | 11/23           | Thursday   | Thanksgiving Break       |                                                                                        |
| 12          | 11/27           | Monday     | Activity 18              | Plant Disease and Review                                                               |
|             | 11/29           | Wednesday  | Final Exam <sup>18</sup> |                                                                                        |
|             | 11/30           | Thursday   | Lab 11                   | Lab Final Exam (Lab Reports Due)                                                       |
| 13          | Final Exam Week |            |                          |                                                                                        |

## End Notes:

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<sup>1</sup> One of the course objectives is to discuss, practice, and apply sustainable practices in horticultural production. This has been an objective each time I have taught the course (once annually 2013—present).

<sup>2</sup> The midterm exam features multiple questions that address issues of sustainability, including content related to the Law of the Minimum and the costs of nutrient run-off. In these questions, students must consider the ecological and economic costs of horticultural production.

<sup>3</sup> The final exam features multiple questions that address sustainability, including avoiding nutrient run-off, discussing sustainable practices at a nursery, selecting containers appropriately, and irrigation efficiency. In these questions, students must consider the ecological and economic costs of horticultural production, as well as write a statement that show how they would address issues of sustainability in an industry setting at a job after graduation (i.e. state their personal and professional values).

<sup>4</sup> Some of the lab reports focus on plant nutrient needs. We run an experiment with an independent factor of fertilizer application rate (low/medium/high), and the students learn that excessive fertilizer application results in wasted money, no beneficial growth response, and nutrient run-off. This illustrates the economic and ecological costs of nutrients, and challenges students to think about sustainability. I stress the fact that sustainable practices make sense financially in horticultural production.

<sup>5</sup> The research paper assignment is a student-selected topic relating to horticultural production, which usually incorporates some elements of sustainability. I have taught this class 5 times, and every time more than 50% of the research papers included substantial content related to sustainability. Examples of past papers: the energy cost of vertical production of vegetables indoors versus field production, the use of coconut coir versus peat, producing vegetables with organic fertilizers, energy costs and performance of lighting systems (LED vs. others), defining local in the context of horticultural production, and creating composts to use in horticultural production.

<sup>6</sup> The presentation and discussion of research reports is where much of the conversation about sustainability connects with the class. I allow the students to present their topic, then the class discusses it. Usually questions of sustainability come up in that discussion. If they do not, I bring them up for discussion. I emphasize that some issues in horticulture do not have easy answers, and that it is important to consider all aspects of sustainability. During the class discussion, we frequently address the university Sustainability Learning Objectives. We define sustainable practices within the subject of the research project. We talk about how natural, economic, and social systems will foster or prevent sustainable practices. We wrestle with sustainability on a local, national, and global scale. Throughout the experience, I challenge students to be carefully thinking about their own personal values of sustainability and how they would apply those values professionally.

<sup>7</sup> The class sets up three or four experiments that are monitored for 6-8 weeks. One of the experiments tests several rates of a controlled release fertilizer on a specific crop. I use this experiment to illustrate that excessive fertilizer application results in wasted money, no beneficial growth response, and nutrient run-off.

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<sup>8</sup> In Activity 2 we discuss peat as a horticultural substrate. This leads to discussion about the sustainability of peat. We discuss how it is harvested, as well as the steps that are in place to protect peat bogs. We also spend considerable time discussing alternatives to peat. I challenge students to think about the scientific basis for substrate performance, and to use that knowledge to be innovative with substrate selection. When we talk about coir as an alternative to peat, I make sure we have a nuanced conversation, with labor conditions for workers and transportation costs factoring into the discussion.

<sup>9</sup> This activity includes discussion of the Law of the Minimum in the context of plant nutrition. This is a critical basis for good decision-making with fertilizers. We discuss nutrient use, with attention placed on the damages of nutrient run-off. Mismanagement of nutrients causes devastating damage to the environment and costs the agricultural industry millions of dollars in wasted products. We discuss the four R's (Right Rate, Right Source, Right Time, and Right Place).

<sup>10</sup> Students learn to calculate fertilizer rates. They learn that application of nutrients can be done with precision, rather than with a heavy-handed over-application or approximation.

<sup>11</sup> See note 2

<sup>12</sup> Students learn to audit a fertilizer injector to determine if the output is consistent with the intended rate. Precise nutrient calculations are worthless if the equipment used to apply them malfunctions. This lab prepares students to combat this on two fronts: first by being aware that calibration must be checked, and second by having an understanding of how an audit works.

<sup>13</sup> Students learn about the major irrigation systems in the horticultural production industry. This activity focuses on overhead irrigation and microirrigation. Students learn about water efficiency of systems, and consider the benefits and problems each system poses.

<sup>14</sup> In a continuation of irrigation system discussion, this activity focuses on subirrigation.

<sup>15</sup> Students learn about the application of PGRs. Emphasis is placed on avoiding PGR run-off, following labels, and using cultural methods to avoid PGR use. Students are challenged to consider if PGRs are necessary.

<sup>16</sup> Students learn about different types of containers. We discuss different plastics, alternative products (including biodegradable and compostable options). We spend time discussing the sustainability in the context of containers.

<sup>17</sup> The main focus of this activity is sustainability. We discuss sustainability certification of nurseries. We discuss green marketing guidelines, with the intention of avoiding greenwashing. I encourage students to think critically about claims they hear or make. I also challenge students to develop their personal values of sustainability and to be prepared to apply those values in a professional setting.

<sup>18</sup> See note 3

Academic Senate Sustainability  
Committee SUSCAT Evaluation  
Rubric

| Initial Assessment Based on Course Title & Description                                                                                                  |                               |                                 |                                     | Points Possible                          | Points Actual |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|-------------------------------------|------------------------------------------|---------------|
| Yes, the course very likely achieves at least two of the four SLOs.                                                                                     |                               |                                 |                                     | 2                                        | 2             |
| Maybe, the course might achieve one or more SLOs.                                                                                                       |                               |                                 |                                     | 1                                        |               |
| No, the course doesn't seem to address the SLOs.                                                                                                        |                               |                                 |                                     | 0                                        |               |
| Cal Poly defines sustainability as<br><i>the ability of natural and social systems to survive and thrive together to meet current and future needs.</i> |                               |                                 |                                     |                                          |               |
| Assessment Based on Course Proposal or Syllabus                                                                                                         | Minimal Evidence<br>Score = 0 | Threshold Evidence<br>Score = 1 | Strong Evidence<br>Score = 2 *      | Superior Evidence<br>Score = 3 **        | Score         |
| SLO1: Students define and apply sustainability principles within their academic programs                                                                | Syllabus doesn't mention SLO  | Syllabus mentions SLO           | Syllabus shows SLO student outcomes | Syllabus has SLO as a major course focus | 3             |
| SLO2: Students explain how natural, economic, and social systems interact to foster or prevent sustainability                                           | Syllabus doesn't mention SLO  | Syllabus mentions SLO           | Syllabus shows SLO student outcomes | Syllabus has SLO as a major course focus | 2             |
| SLO3: Students analyze and explain local, national, and global sustainability using a multidisciplinary approach                                        | Syllabus doesn't mention SLO  | Syllabus mentions SLO           | Syllabus shows SLO student outcomes | Syllabus has SLO as a major course focus | 1             |
| SLO4: Students consider sustainability principles while developing personal and professional values                                                     | Syllabus doesn't mention SLO  | Syllabus mentions SLO           | Syllabus shows SLO student outcomes | Syllabus has SLO as a major course focus | 3             |
| Total Score (SLO1 - SLO4)                                                                                                                               |                               |                                 |                                     |                                          | 9             |
| 20% or more of the course covers the SLOs.                                                                                                              |                               |                                 |                                     | Yes/No                                   | Yes           |
| Sustainability Course (Score >=6 AND 20% or more sustainability)                                                                                        |                               |                                 |                                     |                                          | Yes           |
| If course doesn't address the SLOs, could it?                                                                                                           |                               |                                 |                                     | Yes/No                                   |               |

**Suggestion(s) how course might address one or more of the SLOs:**

**Other Comments:**

Note: All ratings based on annotated syllabus

\* A score of 2 requires the syllabus to show SLO student outcomes AND mention the SLO.

\*\* A score of 3 requires the syllabus to have the SLO as a major course focus AND show the SLO student outcomes AND mention the SLO.



## Academic Senate Sustainability Committee (ASSC)

## Minutes

Fall 2018

Meeting Date: Nov. 1, 2018 at 4:10pm

Meeting Convened: 4:10pm

Minutes Recorded By: Jonathan Reich

### ATTENDANCE:

☐ Bennett, Penny, CLA/AssocDean, Admin (EO)

☒ Braun, David, ElecEngr Faculty CENG

☐ Chiu, Yiwen, NRES Faculty CAFES

☐ Cartwright, Lauren, Student, ASI Rep (EO)

☒ Dumars, Jeffrey, FacPlng VP/Adm&Fin Rep (EO)

☒ Elliot, Dennis, FacSvcs, VP/Adm&Fin Rep (EO)

☒ Fernsler, Jonathan, Physics Faculty CSM

☒ Moore, Rob, Student, ASI Rep (EO)

☐ Peters, Jason, English Faculty, CLA

☐ Rastad, Mahdi, Finance faculty, OCOB

☒ Reich, Jonathan (CH) Arch Faculty CAED

☒ Kylee Singh, Enrg&Sustain Admin (EO)

☐ Winslow, Dianna CTLT VP Prog&Png Rep (EO)

☐ Vacant, PCS Rep (EO)

### APOLOGIES:

### GUESTS:

QUORUM: Required attendance of committee for quorum is 7/12

Committee members present: \_\_

Quorum?: ☒ Yes ☐ No

### AGENDA:

1. Review/Approve ASSC Oct. 19 Minutes. Approved. Request made to hold ASSC meeting next week Nov. 8<sup>th</sup>.

#### 2. ASSC membership:

Prof. Rastad Mahti has been appointed OCOB's Rep. to ASSC. Still need PCS Rep for ASSC.

JReich reported he'd reached out to Maria Zavala as recommended but has not heard back yet.

JReich reported on Academic Senate retreat in September and laudatory comments about ASSC GE pathways proposal and Chair Stegner's public comment about SUSCAT on PASS and waiting for ITS.

#### 3. Brainstorm process for updating SUSCAT when courses are approved.

Per Kylee Singh: "...a process for which courses that are either submitted, in review, or approved live in a shared document to keep us all organized for keeping SUSCAT up to date."

"How do we create a system between what classes have been submitted for review and what classes have been reviewed and approved that need to get added to the site? How do we get Academic Affairs to host the SUSCAT website?"

Can we get a general ASSC chair email set up and assigned to the chair so that we can list that as the person to contact on SUSCAT?"

Forthcoming audit & update of SUSCAT: We will have to get spreadsheet of all new courses approved for new Cal Poly catalogue (from Susan Olivas) and review them for SUSCAT and also check if prior SUSCAT courses have changed or dropped off.

ASSC should have "suscat@calpoly.edu" email address to field, monitor, and answer inquiries and submissions. Kylee will set it up.

Meanwhile we need to collect all courses ready for SUSCAT from last year and from Dianna's summer activities and forward the info to the ASSC google drive document.

#### 4. Draft ASSC Resolution to improve how "sustainability" is addressed in Cal Poly's Strategic Plan.

There was a "feedback" meeting 11am Thursday Oct. 25 in the Berg Gallery in the Architecture building #05-105. I was out of town but 5 of my EDES.406 students went and said they were among the only ones there. Online feedback to the strategic plan group closes at the end of the day, November 2, 2018.

See: <http://strategicplanning.calpoly.edu> & <http://strategicplanning.calpoly.edu/wp-content/uploads/2018/09/Cal-Poly-Strategic-Plan-Draft-Extended-Version.pdf>

Braun shared a petition that is circulating to gather support for this effort.

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Braun drafted a resolution for the ASSC to consider which is attached.

Vigorous discussion about which "Strategic Plan" is being referred to and what is hierarchy of strategic plans if any.

Agreement that some model university sustainability plan(s) should be found to inform ASSC input into Cal Poly strategic plan.

Suggestions were from AASHE Stars platinum rated university sustainability strategic plans such as Stanford's, Univ. of Colorado, Boulder's, UC Irvine's, and Univ of New Hampshire's.

#### 5. Do we want to offer an opinion on Measure G?

No discussion on this item.

#### 6. Other news / business:

- Future direction of ASSC in moving initiatives forward:
- Re. specific incentives for efforts that advance CSU & Cal Poly sustainability policies in ARPT, Prof. Pete Schwartz forwarded recommendation from Physics Sustainability Committee:
- Progress on "SUSCAT filter on PASS" initiative (Braun)
- Discuss issue of Including Sustainability in Faculty Recruitment

### HANDOUTS:

- Check out CSU Sustainability Report: <https://www2.calstate.edu/impact-of-the-csu/sustainability/Documents/2014-17-Sustainability.pdf>

- Check out these two UCLA programs: <http://healthy.ucla.edu> & <https://www.ioes.ucla.edu/sar/> . What's the difference...?

- Also check out this about the enviable Center for Agroecology & Sustainable Food Systems at UC, Santa Cruz:

<https://www.nytimes.com/2015/09/15/opinion/mark-bittman-the-roots-of-organic-farming.html>

MEETING(s) ADJOURNED: 5:20pm

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**Academic Senate Sustainability Committee 2018-2019 :**

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| Braun, David         | Elec. Engrg              | CENG         | 61464        | dbraun            | 2020                   |
| Cartwright, Lauren   | Student                  | ASI          | 61281        | lcartwr           | EO (ASI) ??            |
| Chiu, Yiwen          | NRES                     | CAFES        | 62972        | yichiu            | 2019                   |
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| Elliot, Dennis       | FacSrvcs/Enrg,Ut&Sustain | Admin        | 62090        | delliot           | EO (VP/Adm&Fin))       |
| Fernsler, Jonathan   | Physics                  | CSM          | 62438        | jfernslr          | 2020                   |
| Moore, Rob           | Student                  | ASI          | 61281        | rmoore30          | EO (ASI)               |
| Peters, Jason        | English                  | CLA          | 62862        | jpeter65          | 2020                   |
| Rastad, Mahdi        | Finance                  | OCOB         | 62922        | mrastad           | 2020                   |
| Reich, Jonathan (CH) | Arch                     | CAED         | 805-801-8848 | jreich            | 2019                   |
| Singh, Kylee         | Enrg,Ut&Sust             | Admin        | 65397        | klsingh           | EO (Enrg,Ut&Sust)      |
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**Cal Poly Sustainability Learning Objectives ("SLOs"):<sup>1</sup>**

Cal Poly defines sustainability as the ability of the natural and social systems to survive and thrive together to meet current and future needs.

In order to consider sustainability when making reasoned decisions, all graduating students should be able to:

- Define and apply sustainability principles within their academic programs
- Explain how natural, economic, and social systems interact to foster or prevent sustainability
- Analyze and explain local, national, and global sustainability using a multidisciplinary approach
- Consider sustainability principles while developing personal and professional values

*Academic Senate Resolution 688-09 approved by President Baker June 22, 2009*

**ASSC Committee Charges for 2018-19:<sup>2</sup>****Responsibilities:**

The Sustainability Committee shall inform and support the activities of other committees whose scope encompasses environmental responsibility. The Sustainability Committee shall make recommendations to the Academic Senate, as appropriate, regarding the provisions of the Talloires Declaration (AS-622-04) and the CSU Sustainability Policy.

**Charges:**

- Develop and pilot more SLOs assessments. Ongoing
- Respond to AS-787-14
  1. Review new courses in the 2017-2019 catalog for SUSCAT. Fall 2018
  2. Encourage faculty to teach sustainability in new and existing courses. Ongoing
  3. Work with the CTLT to provide support for faculty seeking to teach classes involving sustainability. Ongoing
- Develop procedures to identify sustainability courses in catalog and on PASS. Fall 2018
- Respond to 2014 CSU Sustainability Policy directives. Ongoing
  1. "The CSU will seek to further integrate sustainability into the academic Curriculum working within the normal campus consultative process
  2. The CSU will develop employee and student workforce skills in the green jobs industry, prompt the development of sustainable products and services, and foster economic development.
- Support campus efforts to improve Cal Poly's AASHE STARS certification credits. Ongoing
- Work with students to better integrate approaches to sustainability inside and outside the classroom curriculum. Ongoing
- Follow up the April 2017 Sustainability Charrette Action Items. Fall 2018
  1. Define a Cal Poly statement on sustainability and integrate into the hiring process
  2. Study how Cal Poly might implement a sustainability graduation requirement
  3. Define organization and responsibilities for a Cal Poly Office of Sustainability
- Work with GEGB to develop sustainability pathways in GE.

<sup>1</sup> [www.academicprograms.calpoly.edu/content/academicpolicies/sustainability\\_lo](http://www.academicprograms.calpoly.edu/content/academicpolicies/sustainability_lo)

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<sup>3</sup> <http://secondnature.org/wp-content/uploads/2015/09/Climate-Commitment-Second-Nature.pdf>

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From: Gladys E. Gregory  
Sent: Wednesday, May 9, 2018 1:41 PM  
To: Jonathan W. Reich  
Subject: Re: A Couple of Names Were Suggested for PCS Vacancy On Academic Senate Sustainability Committee

Hi Jonathan,

Here are the names of folks who are considered members of PCS.

|                                   |                                 |                                   |
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| Baltierrez, Nury Annain           | Mitchell, Judy A.               | Bergheger, Sara Elizabeth         |
| Barnett, Nayree Lynette           | Nafisi, Mitra Z.                | Borchin, Jason R.                 |
| Bergman, Damie Anya               | Nelson, Christine Irish         | Brown, Allen D.                   |
| Bieraugel, Mark David             | O'Brien, Katelyn                | Brown, Joshua Isiah               |
| Bobell, Jennifer Ruth             | O'Clair, Katherine Elizabeth    | Byrd, Kelsey Louise               |
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| Farrier Nolan, Meghan Larissa     | Scaramozzino, Jeanine M.        | Graves, Daniel Robert             |
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| Leon, Jose Miguel Pulido          |                                 | Winterhalter, Katharina Franziska |
| Martin, Lyzette Monique           |                                 |                                   |
| Martin, Tammy S.                  |                                 |                                   |

If you have any questions, please don't hesitate to contact me.

Thank you,

~~~~~  
Gladys Gregory, Academic Senate Office Coordinator
California Polytechnic State University, San Luis Obispo, California
805-756-1258
ggregory@calpoly.edu
academicsenate.calpoly.edu
~~~~~

Responsibility | Consistency | Input | Deliberative | Relator

**Academic Senate Sustainability Committee (ASSC)****Minutes****Fall 2018****Meeting Date: Oct. 18, 2018 at 12:00pm noon****Meeting Convened: 12:10pm****Minutes Recorded By:** Jonathan Reich**ATTENDANCE:**

☒ **Bennett, Penny**, CLA/AssocDean, Admin (EO)  
☒ **Braun, David**, ElecEngr Faculty CENG  
☒ **Chiu, Yiwen**, NRES Faculty CAFES  
☐ **Cartwright, Lauren**, Student, ASI Rep (EO)  
☐ **Dumars, Jeffrey**, FacPng VP/Adm&Fin Rep (EO)

☐ **Elliot, Dennis**, FacSvcs, VP/Adm&Fin Rep (EO)  
☐ **Fernsler, Jonathan**, Physics Faculty CSM  
☒ **Moore, Rob**, Student, ASI Rep (EO)  
☒ **Peters, Jason**, English Faculty, CLA  
☒ **Reich, Jonathan** (CH) Arch Faculty CAED

☐ **Kylee Singh**, Enrg&Sustain Admin (EO)  
☒ **Winslow, Dianna** CTLT VP Prog&Png Rep (EO)  
☐ **Vacant**, OCOB  
☐ **Vacant**, PCS Rep (EO)

**APOLOGIES:** Kylee Singh,**GUESTS:****QUORUM:** Required attendance of committee for quorum is 7/12      Committee members present: 7      Quorum?: ☒ Yes ☐ No**AGENDA:****1. Review ASSC 2018-2019 charge.**

Several ASSC members have applied to serve on the GE Working Groups inc. Jason Peters, Dianna Winslow, Penny Bennett, and Rob Moore  
Dianna Winslow is also serving on CSU Systemwide sustainability policy revision group.

**2. ASSC membership:**

Need PCS Rep & OCOB Rep for ASSC.      Please look at the list of names of eligible people from PCS attached.  
A faculty member from OCOB, Hong Hoang was recommended.  
Several names from the attached PCS member list were recommended. JReich will reach out to them.

**3. Review & determine process for updating SUSCAT when courses are approved.**

Per Kylee Singh: "...a process for which courses that are either submitted, in review, or approved live in a shared document to keep us all organized for keeping SUSCAT up to date."  
Continued to Nov. 1<sup>st</sup> meeting.

**4. Draft language to improve how "sustainability" is addressed in Cal Poly's Strategic Plan.**

There is a "feedback" meeting 11am Thursday Oct. 25 in the Berg Gallery in the Architecture building #05-105.

See: <http://strategicplanning.calpoly.edu> & <http://strategicplanning.calpoly.edu/wp-content/uploads/2018/09/Cal-Poly-Strategic-Plan-Draft-Extended-Version.pdf>

In addition, Braun shared a petition that is circulating to gather support for this effort.

It's at: <https://forms.office.com/Pages/ResponsePage.aspx?id=2w1NG578IUSVNx03nMog5xmvPuui2zRCKsbYAeOs-Q9UNU9UukRFWFNROFBFM0dVOFdMREwyTTcwRy4u>

Braun reported that Bruno Giberti and Mary Pedersen are heading up the strategic planning effort. We discussed how sustainability is addressed in the strategic plan and ASSC members agreed to distribute the petition widely through their colleges and departments to try to increase number of signatures.

**5. Do we want to offer an opinion on Measure G?**

JReich and Joe Ragsdale are hosting a presentation by the drafters of Measure G in the Edes.406 class Wed. Oct. 31<sup>st</sup>.

**6. Other news / business:**

- Future direction of ASSC in moving initiatives forward:
- Re. specific incentives for efforts that advance CSU & Cal Poly sustainability policies in ARPT, Prof. Pete Schwartz forwarded recommendation from Physics Sustainability Committee:
- Progress on "SUSCAT filter on PASS" initiative (Braun)
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**HANDOUTS:**

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