



Engineering/Engineering Technology Advisory Board Meeting Minutes

LPC Mission Statement

Las Positas College is an inclusive, learning-centered, equity-focused environment that offers educational opportunities and support for completion of students' transfer, degree, and career-technical goals while promoting lifelong learning.

LPC Planning Priorities

- ❖ Implement the integration of all ACCJC standards throughout campus structure and processes.
- ❖ Establish a knowledge base and an appreciation for equity; create a sense of urgency about moving toward equity; institutionalize equity in decision-making, assessment, and accountability; and build capacity to resolve inequities.
- ❖ Increase student success and completion through change in college practices and processes: coordinating needed academic support, removing barriers, and supporting focused professional development across the campus.
- ❖ Coordinate resources and provide professional development for effective online instruction and remote delivery of student support services and college processes to advance equitable student outcomes.

Engineering/ET Advisory

Members Present:

Karen Fletcher, LHS
Mark Newton, LPC
Kristy Woods, LPC
Dorothy Morillos, LHS
Sarah Holtzclaw, Tri Valley Career Ctr.
Keith Level, LPC
Beth McCormick, LLNL
Nan Ho, LPC
Tamia Brown, Al. Co. WFD
Randy Pico, LLNL
Todd Steffan, LPC
John Ruiz, graduate, LLNL employee
Ray Souza, LLNL
Tri Do, LAM
Yoko Parker, AccSys
Brad Martin, LLNL

April 20, 2020 | 5:30 | Zoom

Meeting Minutes

1. Call to Order, 5:34

2. Welcome and Introductions

Karen Fletcher, Mark Newton, Kristy Woods, Dorothy Morillos, Sarah Holtzclaw, Keith Level, Beth McCormick, Nan Ho, Tamia Brown, Randy Pico, Todd Steffan, John Ruiz, Ray Souza, Tri Do, Yoko Parker, Brad Martin

3. Review and Approval of Agenda

Moved by Kristy, seconded by Todd; Kristy and Nan amend, approved

4. Review and Approval of Minutes

Kristy moves to approve minutes of September 19, 2019, Randy seconds, approved

5. Industry Updates

• Training and Hiring Needs

- Training and Hiring Needs
- Beth – LLNL had 200-300 job openings have not cancelled because of COVID, slowed, hope to be back in house by summer, very few of jobs have been eliminated.
- Randy – COVID given challenges, virtual orientation, nothing less from gov to deliver. Today employees showed up to do work. Have not slowed down, Virtual hiring. Engineering represents the largest sector in hiring. ME has broad brush, still have need for trained electronic technologist; use of CAD is essential
- Ray – Are candidates reconsidering moving, changing jobs? Wait and See
- Brad Martin – still able to move forward with hiring packages, slowdown in applicants
- Beth – Internship program has been impacted. Identify interns that can be remote. 200 interns hired, 110 were able to do internships remotely. ET interns not able to do internships remotely.
- Randy – hands on not possible virtually
- Tri – still hiring at Lam, now hiring virtually, need for technicians still exists, as of now do not know the precise number, getting back
- Kristy – is fall or Spring internship possible
- Randy – if there it is possible the lab is going to try and accommodate. Continue to put out the finest students, there will be a need

- Beth – if the LLNL can bring in students by July or August that is a priority
- AccSys Tech – do not think they can bring in interns this fiscal year. There is interest.
- **Emerging Trends**
 - Tamia – County #s, 155 employers effected in the last week, 840 tech jobs, not small companies. Number is increasing
 - Beth – Opportunity for retraining at CC, 70% of companies that hire from universities are still hiring. Many employees in hospitality etc. will need to recover for a long time. Once CC up and running subjects like welding might be appealing
 - Sarah – Alameda Co Warn notice, normally 2-page report, 13 pages
- **K12 Challenges**
 - Karen – online instruction, difficulty maintain student involvement/interest, problem
 - Dorothy – seniors are going to get credit regardless, drop in participation
- **Internship Opportunities**
 - Randy – If Vets don't have summer internship will they still get benefits?
 - Todd – Challenge to find classes for ET degree, trying to figure out alternatives
 - Beth – How many students will graduate this Spring? Get info to Beth soon
 - Tri – Cease to internship since COVID, paid internship prior to COVID
- 6. **Faculty Report (New Business)**
 - **Distance Ed and the effects on students, ET program**
 - Keith – ET student who is a vet, not isolated, distance might be an extra stressor, negative effects of not coming to campus stating, social extra stressor on students
 - Jen – try and stay in contact, but stress is a lot especially on Vets, work life balance
 - Kristy – 60% unemployment in classes, many students have had to move, VET only small group, have some normalcy. Some student doing better (ones who were quieter)
 - Keith – finding some students doing better because of no commute, etc. social isolation hard still. May not realize the full effect.
 - Jen- a lot of time on Zoom. Trying to be flexible. Need to be careful in the fall not to load up too much.
 - Beth – former students in a position to be encouraging. Hangout with LLNL vets
 - John R. – a lot of alumni would be interested.
 - Todd – learned a lot from Vets, those who complained about commute etc. Now want to be on campus.
 - Nan – courses had to go online in a matter of days. Some had to suspend. All ET courses reinvented. As we go into fall, going to have to make decisions about hands on courses if social distancing continues. Real technology needs (laptops, cameras). Everybody working creatively. Everybody pivoting as fast as they can.
Jen – losing time in summer to develop if faculty is teaching
 - Jen – Eng students need face to face (all faculty)
 - Kristy – concerned with not being employed and calculus does not count towards AS, what does industry think about adding calculus to improve prep for job? Has to be part of a degree to count. Vets don't want to waste time or funds.
 - Trig going pretty well online, good time management, group work. Is calculus worthwhile over the summer?
 - Randy – EE side, calculus 1 tremendously beneficial.
 - Nan - Engineering 22 – offer in summer; which courses are viable in summer? Possibly Eng 10? Keith – possible
 - John R – 2 majors under GI bill, can have ET and Transfer on GI bill. For students who are having issues with funding, adding a major may give more flexibility

- Todd- correct
- Jen – ET student who can be successful in calculus online shows mastery, resilience
- Nan – Engineering 50, highly encouraged by industry, but not well enrolled
- Beth – Have a panel discussion available to students about what the benefits are of taking math, what is really valuable from hiring managers
- Jen – good idea, may get more students to participate on Zoom
- Nan – good for recruitments
- Nan – Lam, LLNL, Tri Valley Career Center, etc. High School involved in Zoom call
- **Courses/Schedule**
 - Keith, Mark– Engineering 50, offer in fall, challenge getting enough students. Not great for distance ed. Hands on, challenging to do remotely. Getting some motivating words from industry would be helpful. Engineering 50 is the only electronics course in major. May be beneficial to those in the circuits class now.
 - Nan – part of degree now, on schedule, twitchy admin process. Trig a prerequisite, barrier to those students who have not taken Math 39. Can it be concurrent with trig?
 - Mark – Eng 50 – loves the course, might be able to teach it with contextualized trig.
 - LLNL thought they could recruit LLNL employees to take course they would have to be paid to do their homework. Challenge. LLNL could recruit LPC students who work at the lab to take course.
 - Mark – take a little extra time to explain subject matter without trig prerequisite.
 - Mark and Randy get together to talk about class. Nan- can Lam also be involved in discussion. Kristy as well.
 - Jen – are students going to be apprehensive to sign up for anything with a 6-hour lab.
 - Kristy – can the students do a virtual lab? Mark – possibly, parts are hard to do
 - Kristy – students hoping to be in class or working this fall
 - Nan- other subjects thinking about assembling kits for students to take home, may have classes with fewer students so they can maintain social distance.
- **Curriculum**
 - Expectation- Nan - 100% online this summer, should we offer Eng 22. Fall – regular schedule, but have plan in case of shelter in place continues. Some courses will be pulled, others will have to be creative.
 - Beth how many students passing physics, stats? Could these courses be offered this summer? Nan- cannot offer lab class in the summer
 - Keith – some students might need to take Eng 37 in the summer, not convinced that these students would take the class in the summer. Nan – not a strong rec from the board, will leave decision to faculty
 - Randy – do what you do best in an effort to help vets.
- **Recap of 5 year**
 - Keith – nice summary of speeches from industry partners, community members, well attended, Tim had inspiring speech
 - Jen – cool to see alumni; Nan- thank you all for coming, mayor was here
 - Beth – LLNL was proud of event, top leaders there, challenge with the program, not easy. Reason to be proud of program.
 - Randy – live in community, hope that his connection with the lab and LPC to continue.

7. Faculty report (old business)

- **Keith - Feedback from students Engr 37**
 - weakest course was Engineering 10, curious about role of Engineering 10. How often should we revisit courses? Industry partners think?
 - Nan – advisory review Eng 10 curriculum at a future meeting, look at options?

- Jen – add a unit?
 - Randy – can information about Eng 10 be sent to advisory?
 - Karen – that would be helpful to see if the articulated courses at the HS is preparing students
 - Keith – some colleges add unit of lab time (Engineering 11), Keith will come up with course outline, summary, and student comments to send to the advisory.
 - John – when did students give feedback? Surprised at comments. Normally see value when they are looking for job.
 - Jen – everyone takes classes, parts that certain students aren't interested in. Hard to give each population what they need
 - Nan – course curriculum usually revised every 5 years, ET curriculum just revised last spring to be effective this spring. Students didn't think that Engineering 10 gave them the skills they need
 - Randy - Would like to hire some students directly after shelter in place is over. Wont lest missing the summer effect opportunities. If students hired can take remote classes. Next summer – love to see 1 or 2 of faculty to do an internship at lab (ET, English, Math).
- **Recommendation from Advisory – none**

8. Good of the Order

9. Next Regular Meeting, Sept 21 at 5:00

10. Adjournment, Kristy, Beth, adjourn 7:31pm