Welcome to MEP’s Industry Advisory Board Meeting!

Please help yourselves to breakfast and spread out around the room.

Friday, May 12th 2017
# Table Topics

<table>
<thead>
<tr>
<th>Industry to Students:</th>
<th>Students to Industry:</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Why did you choose to study engineering?</em></td>
<td><em>What continues to inspire you to do what you do?</em></td>
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The Voices of MEP: An Insider’s Perspective
Welcome!

Interim Dean,
Dr. James Meagher
Program Overview: Mission

The Multicultural Engineering Program (MEP) is an academic support program designed to recruit, retain and graduate a diverse population of students, especially groups which continue to remain the most underrepresented in engineering. This includes but is not limited to aspiring College of Engineering students who are first in their family to earn a baccalaureate degree, or from family backgrounds of limited financial resources and less educational opportunities. MEP leverages a strong support network to build an academic community and provide the necessary bridges for students’ academic and professional success.
Who We Serve

• First Generation Students

• Low Income Students
  - CP Scholars & EOP

• Groups that are historically underrepresented in engineering
  - Hispanic/Latino
  - Black/African American
  - Pacific Islander
  - American Indian
  - Two or more affiliations

• Transfer Students
Who We Serve

- 55.3% first generation
- 41.7% Pell eligible
- 28.8% self-identified “female”
- 35.5% transfers
- 1,125 students in CENG
  ~16% population
- Opt in/opt out involvement
  ~50% have participated in some capacity
Program Overview: Vision

In efforts to create an equitable society and enhance diversity in education and engineering, MEP partners with campus and industry to encourage the development of students who:

• Feel a sense of belonging within their undergraduate education, at Cal Poly, and in the workforce.
• Perform as a high caliber engineering student and professional.
• Lead within Cal Poly and the workforce.
• Create positive change.
• Exemplify confidence through self-advocacy and consistent personal growth.
• Value collaboration and diversity in teams.
• Are socially responsible and global citizens.
Program Overview: Learning Outcomes

Services and support provided by the Multicultural Engineering Program result in...

- A sense of belonging and community for underrepresented students in the College of Engineering
- Enhancement to students’ academic progress
- Fostering students’ professional and leadership development
MEP Staff

Jackie Duerr, Coordinator

Meghan Palaszewski, Advisor

Greg Roldan, Advisor (and ESS interns help out, too!)
Resource Highlight: Advising/Coaching

- Holistic advising
- Quarterly grade checks
- “Close Call” checks
- Probation “coaching”
- Dean’s list acknowledgement
- SHPE/NSBE support
Relationship building through...

- Club advising: SHPE & NSBE
- CP Scholars
- ENGR 101 & 301
- Early outreach
- AHC collaboration
Resource Highlight: Community Building

- 24-hour study room
- Computer lab
- Advisors nearby
- Brekky in the MEP
Motivation is…

Seeing the light at the end of the tunnel.

- Resources to enhance both academic and professional growth
- Connections with industry and alumni
**Flagship Events**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
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<tbody>
<tr>
<td>• MEP BBQ &amp; Expo</td>
<td>• Leadership 2 Legacy Banquet</td>
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<td></td>
<td>• Design Challenge</td>
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<table>
<thead>
<tr>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>• Industry Advisory Board</td>
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<tr>
<td>• Club Banquets</td>
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<tr>
<td>• MEP GRADitude Reception</td>
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</table>
What makes us “us”

• Relationship building
• A comfortable space
• Advising/coaching
• Professional growth
2016 - 2017: Year of Transition

- New Interim Dean
- New Associate Dean – TBD
- New Assistant Dean – TBD
- New ESS Retention Advisor
- CSU Graduation Initiative
CSU Graduation Initiative 2025

• Removing obstacles for students to achieve their bachelor’s degrees in efforts to meet workforce demand

• Focusing on 2-year transfer and 4-year FTF, along with closing the achievement gap with URM’s
## CSU Graduation Initiative 2025

<table>
<thead>
<tr>
<th>Metric</th>
<th>Most Recent Rates</th>
<th>Goals 2025</th>
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</thead>
<tbody>
<tr>
<td>FTF 4-year rate</td>
<td>47%</td>
<td>71%</td>
</tr>
<tr>
<td>FTF 6-year rate</td>
<td>79.6%</td>
<td>92%</td>
</tr>
<tr>
<td>NTR 2-year rate</td>
<td>36.1%</td>
<td>45%</td>
</tr>
<tr>
<td>NTR 4-year grad rate</td>
<td>80.5%</td>
<td>93%</td>
</tr>
<tr>
<td>URM grad gap</td>
<td>10.4% points</td>
<td>0</td>
</tr>
<tr>
<td>Pell grad gab</td>
<td>8.3% points</td>
<td>0</td>
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</table>
CSU Graduation Initiative 2025

ESS Efforts:

• Grad fairs – Fall and Spring
• Checking degree requirements to confirm graduation dates
  - F ~260   W ~100   S ~900
• Contacting students not enrolled in a quarter, Fall only
  - ~200
• Making sure all students on AP per quarter have a human interaction
  - ~500
Resource Update: Tutoring

- MEP Tutoring now ESS Tutoring
- Support of the Lab vis ESS staff
- Expanding to the Mechanics Success Center
- Funding supported by CENG
- Funds given to MEP will support MEP students
Resource Update: Poly Pals

Mission: To increase the academic, social and professional success of new freshmen and transfer engineering students through the sharing of knowledge and personal experiences.

Due to low participation, ESS will be putting Poly Pals on hiatus for this upcoming academic year.
Resource Update: Corporate Connections

Mission: Encouraging academic excellence and professional development through the sharing of knowledge and personal experience by a member of industry.

- Industry-to-student mentoring database
- Onus is on the student to make contact
- Expectations and suggestions are provided
- Students might also be referred to the database to apply if they are considering changing their major
Resource Update:
Study Lounge

- New furniture!
- New door?
Resource Update: ENGR 101 & 301

101: Engineering Student Success
• 14 students
• Campus resources, understanding of chosen engineering discipline and identity, community
• Goals for next year: changing up target student group – indecisive freshmen who want to explore change of major

301: Engineering Professional Success
• 36 students – new transfers and 3rd year CP Scholars
• Professional Development, identity, and community
• Goals: more the same!
Event Update: Winter Design Competition

Design Challenge with LLNL postponed to Fall 2017/Winter 2018
CP Scholars

- First year program has been solidly staffed
- Four-year curriculum was created and finalized
Engineering Student Services is passionate about helping transfer students. To provide new transfers an enriched experience during their first year at Cal Poly, we have created the Transfer Advising Program (TAP). Our staff will host special events exclusively for you. Learn more about these quarterly events below:

**Late Summer: TAP into Your Peers**
Join us for a social game night designed to help you connect with your peers, staff and faculty.

**Fall Quarter: TAP into Your Potential**
Learn how to develop your “elevator pitch”, engage industry reps, and polish your resume/cover letter at this career retreat.

**Winter Quarter: TAP into Industry Insight**
Listen to a panel of industry representatives and experienced students give advice on how to land an internship, co-op, or job.

**Spring Quarter: TAP into Celebration**
Celebrate your 1st year completed at Cal Poly with staff and fellow transfer students. Free food will be provided.

To find out when and where our quarterly events are happening, check your Cal Poly email and follow us on Facebook: https://www.facebook.com/CalPolyEAdvising

For more information on TAP and to check out our TAP Advising Checklist, visit: https://eadvising.calpoly.edu/transfer-students/
Supporting Transfers within CENG

• Before transferring...
  - Local CC partnerships
  - Transfer Student Preview Day

• After admittance...
  - OH Advising Session
  - Outreach for course substitutions
  - SLO Days & pre-SLO Days

• Once started at Cal Poly...
  - TAP events: new events focusing on industry
  - ENGR 301

<table>
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<tr>
<th>2014 Enrolled</th>
<th>2015 Enrolled</th>
<th>2016 Enrolled</th>
<th>2017 Targets</th>
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<tbody>
<tr>
<td>106</td>
<td>167</td>
<td>181</td>
<td>200</td>
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</table>

URM Makeup of Fall 2016 Cohort

<table>
<thead>
<tr>
<th>Transfers</th>
<th>Freshmen</th>
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<tbody>
<tr>
<td>30%</td>
<td>14.7%</td>
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</table>
An Ever-Changing Incoming Population

- Fall 2010 – Jackie interns and doesn’t know what she’s doing. Only adds EOP students from First Year Seminar -- #41
- Fall 2013 and prior – Application process only – “opt in” advertised to above populations. No auto enrollment -- #77
- Fall 2014 – AA, HIS/LAT, AMERIN, plus limited 1st gen auto enrolled, then application for transfers and anyone else -- #235
- Fall 2015 – transfers, CP Scholars, EOP, SHPE/NSBE were only included -- #238
- Fall 2016 – all demographics included -- #506
Goals for Next Year:

- Tracking participation
- Assessment of resource effectiveness
## Tracking Participation

*Showcases if we have the tools established to now start tracking complete participation for this academic year.*

<table>
<thead>
<tr>
<th></th>
<th>Completed</th>
<th>In Progress</th>
<th>Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advising</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tutoring</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 101/301</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>MEP Events</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Room</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Industry Events</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Club Activity</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
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## ‘16 – ’17 Participation Tracking (Fall and Winter)

<table>
<thead>
<tr>
<th>Any Support Used</th>
<th>CP GPA</th>
</tr>
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<tbody>
<tr>
<td>0 (N=579)</td>
<td>2.929</td>
</tr>
<tr>
<td>1 (N=237)</td>
<td>2.899</td>
</tr>
<tr>
<td>2 (N=104)</td>
<td>2.910</td>
</tr>
<tr>
<td>3+ (N=195)</td>
<td>3.000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th># of MEP Academic Support “Touches”</th>
<th>CP GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 (N=717)</td>
<td>2.931</td>
</tr>
<tr>
<td>1 (N=165)</td>
<td>2.911</td>
</tr>
<tr>
<td>2 (N=71)</td>
<td>2.873</td>
</tr>
<tr>
<td>3+ (N=162)</td>
<td>2.985</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th># of MEP Other Resources</th>
<th>CP GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 (N=913)</td>
<td>2.927</td>
</tr>
<tr>
<td>1 (N=134)</td>
<td>2.931</td>
</tr>
<tr>
<td>2 (N=54)</td>
<td>2.969</td>
</tr>
<tr>
<td>3+ (N=14)</td>
<td>3.190</td>
</tr>
</tbody>
</table>

If at least 1 academic and 1 other service used: 2.998 CP GPA (N=62)
Assessment of Resources

• Launching Spring 2017
• Assessing how our services meet our learning objectives
• Results to share at the next IAB
MEP'S BOOK LOAN PROGRAM

MEP purchases books for select students to use throughout the year with the promise that they'll return them for use in the Engineering Tutoring Lab.

WHAT WE DO:
Purchase books for participating students.

WHAT YOU DO:
Return textbooks to MEP at the end of every quarter.

To learn more, visit mep.calpoly.edu/services/book-loan-program.

APPLICATIONS AVAILABLE ON MONDAY, APRIL 17, 2017.
Finding New Ways to Build Community

Brown Bag Lunches
• Targeted for new students to build community
• Advisor-lead thoughtful conversations
• Professional, academic, philosophical topics
• UU hour small groups
• We need a better name...ideas?

1st Day Office Hours
• Drop-in assistance for students held in the MEP Study Room
• Held the first day of every quarter
Heads Up on Handshake

- New hiring software by Career Services
- Jobs getting lost in the abyss
- Email MEP your jobs
MEP Funding Initiatives for ’17 – ‘18

• ESS Intern
• Study Room Renovations: Part II
• “Brown Bag Lunches”
• Leadership Retreat
• Travel for SHPE/NSBE Conferences
• Scholarships, Book Loan Program & Study Abroad Support
• Attend our events!
Save the Dates: Industry Involvement for ’17 – ’18

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td><strong>FALL</strong></td>
<td></td>
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<tr>
<td>September 25</td>
<td>MEP Networking BBQ</td>
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<tr>
<td>September 26</td>
<td>MEP Industry Expo</td>
</tr>
<tr>
<td><strong>WINTER</strong></td>
<td></td>
</tr>
<tr>
<td>January 23</td>
<td>Leadership to Legacy Banquet</td>
</tr>
<tr>
<td>???</td>
<td>Club Leadership Retreat</td>
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<tr>
<td>1/8-3/16</td>
<td>Winter Design Challenge</td>
</tr>
<tr>
<td><strong>SPRING</strong></td>
<td></td>
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<tr>
<td>May 11</td>
<td>Industry Advisory Board Meeting</td>
</tr>
<tr>
<td>May 11</td>
<td>SHPE Banquet</td>
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<tr>
<td>May 18</td>
<td>GRADitude Reception</td>
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IAB Action Items for ‘16 – ’17

• See document in folder for progress
• “Big picture” conversations put on hold
• This year: target action items to retention?
IAB Action Items for ‘17 – ’18
Thank you for coming!