Welcome IAB guests

- Torie Hadel, Ball Aerospace
- Jacob Sauer, Ball Aerospace
- Jeannine Looney, Medtronic
- Rick Musselmann, Dresser-Rand
- Abbie Watnik, U.S. Naval Research Laboratory
Agenda

• Department Update
• Prepare for Engineering Days
• Review Projects at Engineering Days
• Working Lunch/Breakout Session: Review Results of E-Days Judging
• Discuss Results of Breakout Session
• Election
• Tour of Renovated Lory Student Center
• Social at The Mayor of Old Town
Department Update

Tony Maciejewski, ECE Department Head
10-years of service
Thank you!

• Warner Andrews
Faculty Accolades

• Liuqing Yang, IEEE Fellow
• Jade Morton, ION Fellow
Research News

• ECE helps CSU gain entry into National Research Association

• ECE researchers map the sound of silence of in our National Parks
Student Project News

• ECE students revved to compete in EcoCar3

• 2013 NEMO project still in the spotlight
• 8th Annual Best Paper Contest begins in May
  – Thanks to IEEE Plains Section for donating the prize money
  – Contact Andrea if interested

• Commencement set for May 15th at Moby
Alumni News

- ECE alumni Lisa and Desi Rhoden create professorship
- Dinner to honor Prof. Wilmsen set for **Sat, May 9th**

**NEW LOCATION:** Scott Bioengineering Atrium
Projects in the Works

• Proposal for master’s and Ph.D. programs in Computer Engineering
• Partnership with Huazhong University of Science and Technology
New Independent Study Projects

• Credit for open-ended projects throughout the curriculum
• Features hands-on workshops and industry mentors
  – Opportunity for IAB involvement
  – Contact Olivera for more information
COE Research Expenditures

2015 Projections

College of Engineering 46%

CIRA 36%

ATS 23%

CEE 15%

ECE 12%

ME 12%

CBE 2%
National Enrollment Trends by Engineering Discipline (2004-2013)


Taken from ASEE - 2014 numbers will be reported in May.
ECE Spring Enrollment

- SP10
- SP11
- SP12
- SP13
- SP14
- SP15

- Undergraduate Primary Majors (incl BME)
- Masters
- PhD
- ME-Online
Undergraduate Degrees Awarded

- BSCpE
- BSEE

Calendar Year

Number

2008 2009 2010 2011 2012 2013 2014

Legend:
- BSCpE
- BSEE
Freshmen Enrollment
Spring Enrollment Trends by Class

- Freshmen Total
- Sophomore Total
- Junior Total
- Senior Total
ECE Freshmen Retention Rates

Cohort Size of First-Year ECE Students

Persistence Rates of First-Year ECE Students through the 2nd Fall

Persistence Rates Within Department by Cohort Department and Cohort Term
ECE Freshmen Retention Rates

Cohort Size of First-Year ECE Students

Persistence Rates of First-Year ECE Students through the 5th Fall

Persistence Rates Within Department by Cohort Department and Cohort Term
ECE Freshmen Retention Rates

- Cohort Size of First-Year ECE Students

- Persistence Rates of First-Year ECE Students through the 6th Fall

Persistence Rates Within Department by Cohort Department and Cohort Term
ECE Colorado Undergraduate Enrollment: Colorado Institutions (2009-2013)
Women in Engineering (FA14)

Undergraduate
- CBE: 16%
- CEE: 26%
- ECE: 7%
- ME: 21%
- Intra-College: 27%

Graduate
- CEE: 36%
- AS: 15%
- ECE: 27%
- ME: 9%
- Intra-College: 3%
- CBE: 5%

% of International Degrees Awarded

Calendar Year

2008 2009 2010 2011 2012 2013 2014

MS Ph.D. Total
2013-14 First Destination Survey Results

• ECE graduates earned the highest salaries in the COE
  – EE, $62,562
  – COE average, $56,964
  – University average, $44,273

• 100% of ECE grads have employment related to their major
  – University average is 75%

Source: CSU Career Center
How we compare to School of Mines (recently named in top 10 for ROI)

<table>
<thead>
<tr>
<th>Bachelor's Degree Graduates Salary Survey - Electrical Engineering</th>
<th>12-13 Avg Salary Offers</th>
<th>13-14 Avg Salary Offers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colorado State</td>
<td>$64,663</td>
<td>$62,562</td>
</tr>
<tr>
<td>School of Mines</td>
<td>$62,354</td>
<td>$64,367</td>
</tr>
</tbody>
</table>

CSU First Destination Results Reports, 12-13 & 13-14 (CSU Career Center)
Update on Fall Action Items

• **Action item:** Create a PR packet about the department to help IAB promote ECE.

**Status:** Focusing on web and social media communications.
• **Action item:** Expand the department's LinkedIn presence to advance its reputation.

**Status:** Have you seen the group posts on LinkedIn?
• **Action item:** Have faculty participate in an upcoming meeting to share their research and possibly offer lab tours.
  
  – **Status:** Faculty were thrilled to hear this. We have tried to assign at least one professor to each table today.

• **Action item:** Increase involvement with IEEE.
  
  – **Status:** Met with Dick Toftness and Pete O’Neill in February.

  **Outcomes:**
  
  • Pete O’Neill scheduled to give seminar on April 22
  • Exploring Engineer in Residence Program
  • More involvement from IEEE in judging senior design projects
  • Senior member elevation event
  • IEEE meetings to be held on campus this year
• **Action item:** Create a directory of IAB members and their technical bios to serve as a resource for senior design students.

**Status:** Senior design students can access IAB LinkedIn profiles from our IAB web page.
Prepare for E-Days

Tony Maciejewski
Your input matters!

*Comments from last spring*

• Address the issue of students not being able to explain WHY their projects are important.
  – **Status:** Established new requirements for student project plans.

• Help students improve communication and marketing skills, e.g., project posters.
  – **Status:** Ed Minnock and Susan Hunter are working with the students; held poster session on Wednesday.
• Encourage students to identify where their projects fall on the spectrum of technology in industry.
  – **Status:** Some of you helped students this year.

• IAB reviewed mid-year design reports.
  – We look forward to seeing the impact of your feedback.
Judging Considerations

• How are we doing overall?
  – Can you see the impact of your previous suggestions?

• What are the strengths and weaknesses of the senior design program?

• What changes/improvements would you recommend?

• What are the top three projects? What makes them great?
Leave for LSC Ballroom
Lunch & Breakout Session: Discuss Senior Design Program

Facilitator: Lance Guymon
Considerations

• How are we doing overall?
  – Can you see the impact of your previous suggestions?

• What are the strengths and weaknesses of the senior design program?

• What changes/improvements would you recommend?

• What are the top three projects? What makes them great?
Results of Breakout Session

Facilitator: Lance Guymon
Election

Facilitator: Lance Guymon