<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Feb. 17th, 2016</td>
<td>12P – 1P</td>
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**Facilitator**  
R. Balaji

**Scribe**  
M. Hubler

**Location**  
ECCE1B41

**Attendees**  
Amadei, Sandekian, Regueiro, Halek, Cook, Rajaram, Jerick, Neupauer, Hubler, Saouma, Znidarcic, LaFon, Hearn, Molenaar, Corotis, Srubar, Montoya, Beamer, Goodrum, Javernick-Will, Pak, Warren, Krasprzyk, Balaji, Crimaldi, Rundell, Summers, Printy, Kuchenrither

### Key Points discussed

<table>
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<tr>
<th>No.</th>
<th>Topic</th>
<th>Highlights</th>
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<tr>
<td>1</td>
<td>Announcements (Balaji)</td>
<td>Announcements:</td>
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<tr>
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<td>- Faculty candidate interviews are starting next week</td>
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<td>2</td>
<td>Graduate Committee Update (John)</td>
<td>- Update on Admission Status</td>
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<td>- Visit day details</td>
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<td>- TAs – communication skills, ability to TA certain courses is important, Balaji will review</td>
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<td>3</td>
<td>Faculty Seminar (Bernard)</td>
<td>- EDC and Mortensen Center Program Update</td>
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<td>Adjourn</td>
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Admission Stats

CEAE: 384 with CAPs (485 total)

EVEN: 145 with CAPs

AREN: 34 with CAPs
Visit Day: Draft Itinerary for March 4th

• 9:00    Welcome with Bagels and Coffee (C4C)
• 9:30 – 10:30  Group-specific Meetings (C4C and SEEC)
• 10:30 – 12:00 Lab and Facility Tours (EC and SEEC)
• 12:30 – 1:30 Lunch (C4C)
• 1:00 – 2:00  Plenary (C4C)
• 2:00 – 3:00  Campus Tour
• 3:00 – 5:00  Poster Session (C4C)
• 5:30 - ?    Group-specific dinners
Visit Day

• Building Systems:  3
• Civil Systems:    8
• Construction:    3
• Environmental:  12
• Water:           16
• Structural:      11

• Total:           53
Funding Update

- Chancellor’s Nomination Submitted
- DAE’s nominees to be presented to Balaji next week
- Groups to present TA nominees to Balaji
- Still waiting to hear from Rob on College Fellowships
Mortenson Center Update
Karl Linden & Bernard Amadei
co-Directors
CEAE Faculty & Staff Meeting
February 17, 2016
Mortenson Center’s Mission

Advocating integrated and participatory solutions to humanitarian development by:

• **Educating** globally responsible engineering students and professionals,

• **Promoting** research on developing community issues, and

• **Partnering** to build local capacity and resiliency in developing communities worldwide.
MCEDC Status

- 143 participants since EDC started in 2003
- 85 students have earned EDC Grad Certificates since spring 2011 (when first approved)
- 36 students currently enrolled in EDC Grad Certificate
  - 2 BS/MS;
  - 1 ME student
  - 22 MS students;
  - 11 PhD students;
  - ~12% of all CEAE grad enrollment
- 65+ accepted 2016-17 applicants noted interest in EDC

Includes:

- 13 Civil Systems
- 11 Env
- 5 AREN/BSP
- 1 CEM
- 3 EDC
- 1 Water Res
- 2 outside CEAE
MCEDC Graduates

After graduation, alumni have gone to:

• AAAS Science & Technology Policy Fellows
  - 4 since 2012-2013

• Academia
  - University of Washington; Univ. Diego Portales-Chile

• Governmental Agencies
  - USAID, Peace Corps, EPA

• Non-Governmental Organizations
  - Water for People, Del Agua, Save the Children...

• Engineering Industry
  - ARCADIS, TetraTech, Parsons Brinkerhoff, Brown & Caldwell...
EDC vs MCEDC

EDC goes beyond MCEDC

• MCEDC manages Grad Certificate in EDC
• Disciplinary groups decide whether to count EDC certificate courses as part of their degree (electives)
• Faculty control their EDC-related research
• Growing # of EDC-related student groups
Grad Certificate in EDC

Requires completion of 12 credits

• Sustainable Community Dvlp. 1 (Fall)
• Sustainable Community Dvlp. 2 (Spring)
• Field Methods for Practitioners (Spring)
• Sustainable Community Dvlp. Field Practicum (fieldwork in summer, course enrollment in fall)
MCEDC Activity – for Students

- **Master of Engineering** with Emphasis in EDC (new professional degree)
- **Undergraduate Minor** in Global Engineering (replaces existing certificate)
- New **EDC Student Group** (Student-run, affiliated group on campus)
- **Fellowships** for Continuing MCEDC students ($10,600 distributed for spring 2016)
- **Graduate Research Assistantship** available
Educational Content for ME Degree

- Sustainable Community Development Theory & Practice
- Competencies in Data Analysis, Systems, and Project Management
- Focus Area Options in
  - Environmental Health
  - Construction
  - Energy
  - Engineering Management
  - Policy

EDC Core Courses (9 Credits)
Competency Areas (9 Credits)
Focus Area (9 Credits)
Field Practicum (3 Credits)
MCEDC Activity - Research

• Research Initiatives Underway
• Actively writing grants
  - USAID
  - NSF
  - Campus SEED Innovation Grants
• Developing partnerships with consulting companies
• Expanding partnerships with NGOs
• Outreach to partner with other universities
Research & Development

• Water treatment/sanitation technologies
• Water reclamation and beneficial reuse
• System dynamics of community development
• Disaster resilience & recovery
• Indoor air pollution characterization/elimination

Fuel Use¹
62% Wood
14% Natural Gas
11% Electric
11% Propane
3% Other

NEW URL: www.colorado.edu/mcedc
Fieldwork Partners
In past five years, we’ve placed almost 80 students in 60 organizations, including:
EDC Competitive Analysis

• Peace Corps Master’s International
  - Clarkson University; Michigan Tech, Oregon State, Purdue, SUNY, UC Davis, University of Minnesota, University of South Florida

• USAID Higher Education Solutions Network
  - AidData (William & Mary; BYU); Texas A&M (Conflict & Development); Duke (Social Entrepreneurship); Michigan State (Food Systems); Tulane (African resilience); MIT (Technology development); Berkeley (Development Engineering)

• Graduate Certificates (similar to EDC)
  - University of South Florida, Colorado State University, Emory, UN Chapel Hill, Regis University

• Minors/UG Certificates
  - UC Berkeley, Georgia Tech, Michigan Tech, Purdue, Penn State
EDC Competitive Analysis Results

Importance vs. Satisfaction

- Low Satisfaction
  - High Importance
  - Urgent
  - Improve - Urgent

- Low Satisfaction
  - Low Importance
  - Low Importance
  - Improve - Less Urgent

- High Satisfaction
  - High Importance
  - Advertise
  - Faculty

- Satisfaction
  - Facilities
  - SCD 2
  - Research Support
  - Practicum Guidance
  - Overall Curriculum
  - Job Search Support
  - Career Guidance
  - Funding
  - Practicum Opportunities
  - Practicum Experiences
  - Interpersonal Support
  - SCD 1
  - Research Opportunities
  - Research Experiences

NEW URL: www.colorado.edu/mcedc
What We’re Doing / Our Response

• Realizing and enhancing our competitive advantage (Engineering and Development)
• Sharing a weekly digest for current students; Quarterly newsletter for former students, partners
• Spotlighting student each week on blog
• Adding a knowledge center (peer-reviewed articles, reports, news stories)
• Adding GRA funding sources, career postings
• Seeking increased funding for our students
MCEDC Plans

• Developing online courses to engage professional engineers (fall 2016)
• Increasing future enrollment via ME
• Seeking funding to expand impact and collaborations across campus
Connect with Us!

• Sign up for our weekly or quarterly emails
• Email us at mcedc@colorado.edu
• Call us at 303-735-6708
• Check us out online at:
  • http://www.colorado.edu/mcedc
  • Like Us on Facebook
  • Twitter (MC_EDC)
• Drop by our office (5th floor ECOT: 532, 534, 536)