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Bucknell Engineering Alumni Association

Annual Summary Report

2012-2013

The BEAA had an extremely busy and successful year. Our great year is evidenced in the progress made during our three annual meetings and events held throughout the year. We continued to have outstanding attendance at our meetings, with faculty liaisons now becoming regular attendees along with our alumni and student board members. We have also seen a rise in the number of non-board guests attending meetings. In October 2012 we also welcomed Distinguished Engineering Alumni Award recipient David Boger to our board meeting. At Homecoming we invited alumni participants in the Connections for Engineers event and during Engineering Week we invited all alumni participants in the Career Networking Event to join our meetings. In addition there was strong alumni attendance at our annual Cocktails and Contraptions event held during Reunion Weekend. Full details on the activities of the BEAA Board during July 1, 2012 through June 30, 2013 can be found attached as follows:

- APPENDIX B – February Meeting Minutes, Feb. 22-23, 2013
- APPENDIX C – Reunion Meeting Minutes, June 1, 2013

In 2012-2013, we would like to note the BEAA made significant progress in these areas:

- Career Development --the BEAA Board continued to have excellent attendance at our on-campus events including excellent attendance at the Connections for Engineers event at Homecoming and the Career Networking Event during Engineering Week. Full details from the Career Development Committee can be found in APPENDIX D – Career Development Committee Highlights.
- Off-campus events – the BEAA Board continued to have strong alumni support through our alumni connections that lead to a tour of the World Trade Center 1 in New York City, NY and a Bucknell Engineering Network event in Atlanta, GA.
- The BEAA board also jumped into a new area as they began exploring ways to support the College of Engineering within the capital campaign. The result was the BEAA Board re-activating the BEAA’s Development Committee which has been inactive for more than 25 years. The Development Committee will be exploring ways to engage engineering alumni and board members in making some kind of substantial gift to the College as a part of the Campaign. A number of board members have volunteered to join this committee and this group worked throughout the spring semester 2013 to identify areas of focus and financial goals for this important project.

Finally, as our June meeting closed we thanked Suzanne Schicktanz ’80 for her many years of service on the board of directors and her time leading the group as our President. Suzanne officially handed over the BEAA leadership to Mitch Blumenfeld ’91 who will serve as the next President of the BEAA Board effective July 1, 2013.
**APPENDIX A**

Bucknell Engineering Alumni Association  
Board of Directors Meeting Minutes  
Friday, October 26, 2012  
Homecoming Weekend

**Attendees:**

**BEAA Board Members:** Paul Booth, Jonathan Cabelly, Michelle Davis, Lisa Domanowski, Christina Garman, Jim Geiling, Brad Gething, Justin Greenly, Scott Higgins, Jeff Hines, Diane Hymas, Adam Jacob, Joanne Janssen, Lance Lauiletta, Sarah Manley, Rich McFadden, James Morelli, Donald Myers, Darryl Novak, Winnie Okello, Stephen Parker, Helen Reetz, Suzanne Schicktanz, Brad Seamans, David Sobeck, Bill Tafuto, James Tucker, Daniel Weimer, Brian Wojtysiak, Stacy Wolin

**Faculty & Staff:** Keith Buffinton, Lois Engle, Sue Baish, Craig Beal, Katie Bieryla, Mike Gross, Michelle Oswald, Mike Toole,

**Students:** Karl Cronburg, Gil Erlich, Megan Reid, Brian Shoener, Karalyn Sommers, Jaime Vasquez, Boyu Zhang

**Guests:** David Boger (Distinguished Engineering Alumni Award recipient), Craig Ceikot, Roger Goodman

**Opening, Welcome and Introductions – Suzanne Schicktanz**

Suzanne called the meeting to order in the McDonnell Hall 2nd floor Ski Lounge just after 11am. She welcomed BEAA members, DEAA Recipient, and alumni guests returning for the ENGR 100 Connections for Engineers Event, as well as department and student society representatives in attendance. Each attendee introduced themselves to the room. The weekend agenda was reviewed, and it noted that the schedule for BEAA meetings/events was condensed into 1 day in order to accommodate participation by the members in the university wide Homecoming Weekend activities. The DEAA Recipient gave a few reflective comments on his time since Bucknell and the influence that the university had on him.

**Nominations Committee Updates – Darryl Novak**

Darryl updated the group on the upcoming process for filling vacant board positions including those seats for people who are serving their final term this year. A call was placed for nominations from fellow board members following the standard process. The committee will be meeting early in the new year to begin the review process. Questions can be directed to Darryl.

**Faculty updates:**

Michelle Oswald (Civil) – Professor Jeffrey Evans, has been awarded an Overseas Fellowship at Churchill College, Cambridge University, for the 2012 Michaelmas and 2013 Lent terms. He is in residence for six months at Cambridge during his sabbatical from Bucknell. At the ASEE Annual Conference in San Antonio in June, there were a number of Bucknell engineering faculty who were honored for their work and accomplishments. Civil engineering seniors have been using the construction
of Academic West as a learning lab. The department is awaiting Bucknell’s Board of Trustees approval to begin offering a B.S. in Environmental Engineering starting in the Fall 2013.

Sue Baish (Electrical) – A new chair of the department has been appointed and new faculty members have started this semester and the faculty and students are excited about the potential. The IEEE Student society has a variety of activities planned for the fall semester.

University Campaign – College Strategic Planning (SP) – Keith Buffinton
Dean Buffinton gave the group a presentation linking the College to the University Campaign. We are connecting to the “WE DO” campaign through the strategic themes of Innovate, Integrate, Impact, Immerse, and Inspire. The big areas of focus are facilities, programs, chairs and professorships, and financial aid. The TOP Priorities include Academic East; Engineering Success Alliance; Global Engineering Student Financial Aid; ILTM; Chair in Engineering Entrepreneurship; Center for Integrated Sustainability Studies; Chairs in Engineering Pedagogy, Materials, Renewable Energy, and Robotics; and Financial Aid. The presentation concluded with a statement of vision for the future of engineering at Bucknell. This includes new facilities, greater diversity in students and faculty, new opportunities to address national trends and student interests, better understanding of and connections to the world, more opportunities for students to innovate and pursue entrepreneurial endeavors, stronger connections and integration across disciplines, better positioned to be part of emerging fields, enhanced reputation for offering a premier undergraduate education, continuing to graduate students well-prepared for their future, and a community of Do-ers.

Grand Challenges and other initiatives – Mike Toole
Mike discussed a number of thoughts about how we are moving the College “from good to great”. One initiative is the Grand Challenges Scholars Program – a program initiated by the National Academy of Engineering designed to prepare students to solve the Grand Challenges facing society (e.g. making solar power more economical, improving access to clean water, etc). This program is designed to be interdisciplinary in nature and encourages entrepreneurship and a deepened understanding of societal issues. The College is considering how to fund, deploy, and support this program.

Mike also displayed the Civ E Facebook page which is designed to engage prospective students, illustrate what CivE’s do at the University and the involvement of CivE’s in the broader activities in the University community (e.g. sports teams, etc).

Mike is a member of the Presidential Task Force on Online and Residential Learning. The task force is considering how Bucknell responds to technological challenges such as the increased availability of online and web-based coursework, the increased acceptance of these media as a valid means of delivering course content, and the growing trend of professional associations in requiring additional coursework beyond what would typically be able to be delivered in a four year degree program.

Faculty Updates (continued):
Katie Bieryla (BioMed) – 13 students attending Biomed conference with 9 participating in poster sessions. Dr. Bieryla discussed Bucknell’s partnership with Geisinger Medical Center as well as their collaboration with the Management Department to develop medical devices. She also noted that Bucknell’s Biomedical Engineering department was rated #1 by US News and World Report for 2012.

Mike Gross (Chem E) – AIChe conference currently in progress in Pittsburgh. 22 students participating, with 13 research papers being presented and 9 participating in the car competition (approximately 40% of Chem E students actively engaged). BU students are acting as co-hosts of the event. Bucknell received an Outstanding Student Chapter award.

Craig Beal (Mech E) – New faculty member has been added with focus on renewable/solar energy. A new course Mech 222 (Mech E lab practices) has been added. Course tracking has been modified to
allow some specialization within the discipline. The department is also partnering with a number of local businesses and have coordinated a number of site visits.

**BEAA Alumni Communications – Lois Engle**
Lois requested volunteers to update the BEAA presence on the web and social media. The LinkedIn site has approximately 1200 members and the Facebook page has approximately 300 members. Discussion centered around the preferred means of getting communication about the College and BEAA activities. Some concern was expressed that social media may have data security issues and in some cases, social media sites are blocked by employers.

**Closing, Suzanne Schicktanz**
Suzanne thanked everyone for attending and adjourned the meeting.
APPENDIX B

BEAA Board of Directors Meeting
National Engineers’ Week Meeting
Friday, February 22, 2013

Attendees

BEAA Board Members: Mitch Blumenfeld, Jonathan Cabelly, Michelle Davis, Lisa Domanowski, Christina Garman, Justin Greenly, Scott Higgins, Jeff Hines, Diane Hymas, Adam Jacob, Joanne Janssen, Lance Lauletta, Sarah Manley, Richard McFadden, Jim Morelli, Don Myers, Darryl Novak, Frank Pancoast, Stephen Parker, Brad Seamans, Aaron Spak, Andrew Van Schooneveld, Dan Weimer, Stacy Wolin, Brian Wojtysiak,

Faculty and Staff: Susan Baish, Sarah Bell, Katie Bieryla, Alan Cheville, Donna Ebenstein, Lois Engle, Candice McGaw, Michelle Oswald, Tim Raymond, Mike Toole

Students: Jill Baumbach, Gil Erlich, Chelsea McKiernan, Kathy Olsen, Alyssa Rolando, Amanda Ruppert, Meili Sohl, Taylor Zahn, Boyu Zhang

Guests: Patrick Carey, Warren Eister, Marc Henry, Randy Jones, John Malone, Travis Martin, Jason Piatt, Mike Rakszawski, Vicki Scholtes, John Sudol, Andrew Yeatts,

Opening, Welcome & Introductions

Suzanne welcomed the BEAA board members, faculty, staff, students and guests attending the meeting and Career Networking event to lunch. Dean Buffinton was unable to attend the meeting due to the We Do Campaign event in San Francisco.

Closing

The BEAA meeting adjourned and board members and alumni guests attended engineering departmental meetings.

See Feb mtg Appendix B1 (pg 13) for Department meeting notes.
BEAA Board of Directors Meeting
National Engineers’ Week Meeting
Saturday, February 23, 2013

Attendees

**BEAA Board Members:** Mitch Blumenfeld, Jonathan Cabelly, Michelle Davis, Lisa Domanowski, Christina Garman, Justin Greenly, Scott Higgins, Jeff Hines, Diane Hymas, Adam Jacob, Joanne Janssen, Lance Lauletta, Sarah Manley, Richard McFadden, Jim Morelli, Don Myers, Darryl Novak, Frank Pancoast, Stephen Parker, Aaron Spak, Brad Seamans, Andrew Van Schooneveld, Dan Weimer, Brian Wojtysiak

**Faculty and Staff:** Susan Baish, Sarah Bell, Katie Bieryla, Alan Cheville, Donna Ebenstein, Lois Engle, Tristan Erickson, Candice McGaw, Michelle Oswald, Tim Raymond, Mike Toole

**Students:** Jill Baumbach, Gil Erlich, Chelsea McKiernan, Kathy Olsen, Alyssa Rolando, Amanda Ruppert, Meili Sohl, Taylor Zahn, Boyu Zhang

**Guests:** Patrick Carey, Warren Eister, Marc Henry, Randy Jones, John Malone, Travis Martin, Jason Piatt, Mike Rakszawski, Vicki Scholtes, John Sudol, Andrew Yeatts

**Call Meeting to Order and General Business**

Suzanne welcomed the group to the meeting and congratulated the Biomedical Engineers on winning the Golden Hammer for Engineering Week.

Guests in attendance:
Sarah Bell - Career Development Center
Katie Bieryla, Donna Ebenstein – Biomedical Engineering
Tim Raymond – Chemical Engineering
Sue Baish – Electrical Engineering
Allan Cheville – Electrical Engineering
Michelle Oswald – Civil Engineering
Tristan Erickson – Mechanical Engineering
Mike Toole – Associate Dean of Engineering

Lois officially welcomed Candice McGaw to the BEAA group and presented her with an official Bucknell Engineering Network Hat.

Meeting minutes were approved for the October Homecoming meeting.

**Student Society Updates**

**AICHE-Amanda Ruppert**
25 students attended the National conference. Coordinating a trial run of the ChemE car with some other schools before the main competition. Working on a possible tour of Hershey.

**ASCE-Gil Erlich & Jill Baumbach**
Group has had a very busy academic year so far. They went on a tour of the World Trade Center construction site including going up to the 103rd floor of the building. Annual CivilE-MechE football game last semester.

**ASME-Boyu Zhang**
Unfortunately lost the annual CivilE-MechE football game. Thinking of entering a remote inspection competition sponsored by the Nuclear industry. Also looking at a RC Baja competition with remote controlled baja vehicles.

**BMES- Alyssa Rolando**
Worked very hard on E-week for third consecutive win. Sent largest number of presenters for any undergrad program in the country (10) to the national conference in Atlanta. Looking to attend national conference next year in Seattle. Toured neural engineering lab at Penn State in the fall semester.

**IEEE-Kathy Olsen**
Coordinated a trip with the Mechanical Engineers to the Volvo construction plant. Had several guest speakers and hosted a study break during finals. This semester coordinating a tour of the Northrop-Grumman plant in Baltimore. Hosting a session to help students consider graduate school.

**SHPE- Jaime Vasquez**
Focusing on trying to attend the National conference in Indianapolis in October. Hoping to coordinate a meeting with SHPE members at Penn State which has a much larger student population.

**SWE-Meili Sohl**
Coordinating an outreach program for local high school students. Considering a student-faculty lunch.

**TBP-Chelsea McKiernan & Taylor Zahn**
Working on new officer transition and invitations to eligible juniors and seniors for induction this semester.

**BEAA Campaign Initiative**
October was the kickoff of the Capital Campaign for the university. Executive Committee has been talking about how to use our position as one of the leading alumni groups on campus to support the campaign. Suzanne reviewed both the overall university campaign initiatives and priorities of the engineering college.

Aaron Spak was very supportive of the idea of a BEAA endowed scholarship because of the focus of the board on the students in the college. Darryl talked about the $10 million anonymous donation dedicated to scholarships. Mike Toole pointed out that the overall goal for scholarship funds is $100 million.

Some discussion about Grand Challenges Scholarships – 14 focus areas sponsored by the National Academy of Engineering and about to be launched at Bucknell.

Lots of support for ideas that would directly benefit students or faculty.

Scott Higgins, Dan Weimer, and Brad Seamans volunteered to assist Suzanne and Mitch in exploring ideas for the June meeting.

**College Updates and Initiatives, Mike Toole, Assoc. Dean of Engineering**

Enrollment and applications
597 BS, 67 BS-BA, 31 MS enrolled – Engineering continues to be ~25% of total population
No current plans to expand enrollment
7927 applications this year vs 8263 last year
2290 applications to Engineering vs 2228 last year
Mechanical Engineering continues to be very hot in terms of applications

BS Environmental Engineering
Degree approved recently – 16 class of 2017 students is the goal
Dr. Deborah Sills (Cornell) starts in Fall 2013
More structured curriculum

ENGR290
Engineering in Global & Societal Context
Argentina (Prof Evans & Beninati) – Foundation for future growth of a middle-emerging economy
Costa Rica (Prof Jansson & Cipoletti) – Sustainable Energy & Eco-Tourism
Challenge for ENGR 290 is financial aid

January Trustee Meeting
Gifts and pledges exceeding $272 million for campaign
SAT issue largely resolved – rankings unchanged, processes in place to avoid repeat errors
$10 million gift as a result of how the SAT issue was handled
New student residences were approved – 340 students – “South Campus” – Fall 2015
Goal is to move 250 downtown students back to campus

EBI Data – student satisfaction surveys
Bucknell ranks very well in comparison to population of 66 schools
2 areas of lower ranking – Design experience issues (18th) & career services/job placement (22nd)

Student Athletes
102 varsity athletes in Engineering

Entrepreneurship Initiatives
KEEN – Innovations Design Entrepreneurship Application and Systems (IDEAS) program
Kern Family Foundation – potential for $1million+ grant
Re-engineering ENGR100 to include entrepreneurship content
Extracurricular workshops and design competition challenges
Design some electives for all majors spanning 4 years
Ecology of Entrepreneurship
Inventory of existing activities and a vision for the future
Curricular activity, SBDC, internships, external partnerships

Presidential Task Force on Integrating Open Source and Residential Learning
Blended learning at Bucknell – open/online and residential
What is currently happening and what are barriers?
MOOCs (Massively Open Online Courses)

Committee Breakouts: (See Feb mtg Appendix B2 (pg 20) for full details)
Affinity, On-Campus Events – Jeff Hines
  o Reunion Weekend – Spaghetti towers and nuts/bolts will continue this year. Wondering if we can get some student ambassadors to do facility tours.
  o Homecoming Weekend – Back to normal for 2013 meeting – will need to induct both juniors and seniors at this year’s dinner.

Affinity, Off-Campus, Tours & Networking – Sarah & Joanne
  o Set up conference calls prior to June meeting to go through long list of ideas and get some things organized.

Career Development – Brian Wojtysiak
  o Reviewed the attendance and feedback on Connections event and the Career Networking events. Both events are working well. The focus tables at the CNE were very successful and are popular with the students.
  o Sarah Bell provided an update on the CDC activities and externship programs. CDC putting together the “Day in the Life” series to follow alumni in their workday and respond live to questions and feedback from students.

Nominations – Daryl Novak
  o DEAA nomination was completed and will be submitted to the Dean.
  o Slate for 2013 positions including 0-5 year alums and regular lots is ready to be presented to Lois.

Closing Business, Suzanne Schicktanz, BEAA President

Suzanne recognized the senior students who have been serving on the board with recognition gifts and thanked them for serving on the board.

Reminder that the annual giving fiscal year ends in June and we expect everyone to participate.

Next meeting is June 1.

Meeting was adjourned.
APPENDIX B1

Engineering Department Sessions with BEAA
BEAA Board of Directors Meeting
February 22, 2013

Biomedical Engineering

Attendees: Dan Cavanagh, Marie Jacob, Donna Ebenstein, Andrew Yeatts, Katie Bieryla, Alyssa Rolondo, Mitch Blumenfeld

International Education Discussion
Including ENGR290 experience – 40-50% of students / true semesters abroad is ~ 20%
This year 2 ENGR290 programs – Costa Rica and Argentina
Cost is a major factor for engineering students to go abroad
Potential for a certificate program – class + abroad experience gets a special designation
Discussed ways to get the international experience for students so it is meaningful for their curriculum and also a valuable thing to add to resume. Trying to get full semester abroad programs approved and also ensure the EG290 class is adding value to the students.

General Education & Discussion of Curriculum
• What is general education at Bucknell for an Engineering student? Requirement is 2 social sciences and 2 humanities courses – then also meet writing and global/social perspective courses
• Curriculum has been changed a bit in Arts & Humanities college – General education requirement for engineering has not been reviewed in over 10 years
• Can the Engineering college support a “track” – ie – a “business/management” or “public health” track
• Is there a way to get a minor or a concentration?
• Exploring ways to give the students more flexibility in selecting courses – how can they introduce more electives and help students to have an area of focus
• Some ideas on the table:
  o New curriculum in Arts & Humanities – CCC curriculum
    ▪ 2 Humanities
    ▪ 1 Learning goals Humanities
    ▪ 2 Social Sciences
    ▪ 1 Learning goals Social Sciences
  o Learning goals – must meet a certain checklist of objectives

• Can Engineering align with the rest of the University for some of the Soc/Hum elective requirements – should the Engineering departments be allowed to have more/less control over the electives that their students can take?

Department Status
• All programs now capped in College of Engineering – Biomed capped @ 18
- 62 students currently in the major - ~15/16 per year
- Classes of 2010-2016 - ~235 applications per year
- 319 applications for class of 2017
- Overall admission rate ~10-11% for regular admission
- Yield rate ~25% against admissions
- Class of 2012 – 9 graduates; 4 to industry (Lockheed, Deca, Brainscope, Biosense) 2 grad school, 1 med school, 2 on gap years to med school
- Accreditation begins in 2014
- Geisinger Collaboration – 3 Senior design projects, 5 projects next year
- Bucknell/Geisinger co-sponsoring a research initiative – 2nd round this year; $10k, $50k, $100k funding levels – requires a primary investigator from Bucknell and Geisinger
- Summer medical technology projects – also includes management students – 6 engineers, 2 management students + faculty and support
- Joint intellectual property agreement with Geisinger

Chemical Engineering

**Attendees:** Prof. Jeffrey Csernica, Liz Clark, Prof. James Maneval, Prof. Erin Jablonski, Prof. Margot Vigeant, Prof. Ryan Snyder, Warren Eister ’40, Vicki Sholtes ’78, Diane Hymas ’79 (P ’09, ’11), Scott Higgins ’89 (P ’15), Kristin D’Agostino ’00, Brian Wojtysia ’01, Michelle Davis ’03, Travis Martin ’04, Justin Greenly ’08, Sarah Manley ’08, Nick Hanes ’09, Marc Henry ’09, Kelly Carver ’11, Amanda Ruppert ’14.

**Agenda Items**

1. **Fundraising Flyer Presentation by Ryan Snyder**
   A. What do you think of the idea of the department doing direct fundraising?
   B. Do you like what we have prepared?
   C. What should we do with it; how do we share it with alumni/public?
2. **Interactions between ChE Department and Industry Presentation by Brandon Vogel**
   A. What can we do to maintain and strengthen company/business interactions with the department?
3. **Senior Design Presentation by Brandon Vogel/Erin Jablonski**
   A. How can we identify potential projects?
   B. Should we take-on large interdisciplinary projects and charge for the work of our design teams?

**Notes:** All responses are considered to be from the floor.

1.A What do you think of the idea?
   a. The vertically bulleted version is more popular selection, cleaner and easier to read.
   b. Good idea, don’t be shy about asking for money.
      - Athletics uses a one page flyer that explains what items are supported by donations
   c. Alumni expect to be contacted. They would appreciate it if it came from someone they know (i.e., the department/ChE students) and appreciate it if their major were mentioned (currently only athletics/extracurriculars are mentioned in fundraising calls, not academics)

1.B Do you like what we have prepared?
a. Good to see where donated money goes (for items not covered 100% by tuition or in the operating budget)
b. Have the media group take a nice picture and create an event for which we want to raise funds so people can see a “total goal for event” vs. “percentage of goal reached”
d. Link in with current calling campaigns to have academics mentioned
e. Need to have more emotional connection to each fundraising “item of value”, i.e. AIChE National Conference Attendance or Summer Research Position. What is the value to the student? What does the student get from this? Perhaps create a video answering these questions for each item.
f. Include a lower cost item, $50 is too much to ask some new graduates to donate, but if they start with small donations and continue to remain connect to the department over time, their donations will grow as they advance in their careers.
g. Include goal-driven phrases:
   - “Last year we raised $xxx, this year let’s shoot for $XXX!!”
   - “Last year’s donations funded ## Summer Research Positions.”
   - “Help us stretch our dollars, we need $XXX to send our students to AIChE Nationals”

1.C What should we do with it?
   a. Mail a Year In Review newsletter with a letter from the Chair, and attach this to it.
   b. Website link that displays what we prepare with a section that shows a goal number and how much we have raised (updated quarterly) linking directly to the donation page.
   c. Open question: What is the “trigger” for alumni (or parent) giving to Department?

2.A What can we do to maintain and strengthen company/business interactions with the department?
   a. Work to further develop “know somebody” contacts/networks
   b. Offer on-campus events specifically as educational or professional development so industry employees can more easily “sell” the idea of a Bucknell trip to their managers
   c. More early student contact
   d. Attracting Visits to Bucknell to recruiters:
      I. 2 Trips for Practically the Price of One, recruiters who are coming to PSU or other large schools. Encourage to add an extra day to visit Bucknell.
      II. Value of Bucknell Students, Liberal Arts school, produces well-rounded students with expanded skill sets
      III. Cost Effective, can pre-screen to meet only with a small group of high-value students

3.A How can we identify potential Senior Design projects?
   a. Give examples of “canned projects
   b. Provide a portfolio of previous projects across several “types/categories”
      I. Include examples of confidentiality and IP agreements
      II. Give estimates of # of students and time spent
   b. Include phrases such as “Have a project on the horizon that hasn’t been funded? We can offer: more talented students, teams with more time, and faculty with more time. Call us now for additional info.”

3.B Should we take-on large interdisciplinary projects and charge for the work of our design teams?
   a. There is value in interdisciplinary project
   b. Several opportunities already exist for cross-functional projects/teams
   c. Charging for projects was not supported
Attendees: Joanne Janssen, Richard McFadden, Lance Lauletta

Faculty/Staff Attendees: Alan Cheville, Dave Kelley, Stu Thompson, Sue Baish, Robert Nickel, Matthew Watkins

Guests: Jason Piatt, John Venarchick

Department Head Session Debrief
New EE Department Head - Alan Cheville

- Alan Cheville introduced himself and opened the meeting with the following comments:
  - EE Major enrollment drop experienced for several years appears to have turned around over the last two years
  - Small classes of EE Major had been trend both at Bucknell and nationally
  - Despite growth in EE Majors, women represent only 8%

- Alan Cheville asked alumni attending meeting to participate in a survey he has conducted with his staff upon taking over as the EE department head in January – He asked us to respond to three questions:

- **Who or what should a Bucknell EE/Computer Engineer be?** – comments from alumni:
  - depth and breadth of education equally important
  - project management / communication skills important; people with only engineering skills increasingly being treated as commodity
  - engineers should have a breadth of study that includes cross-disciplinary education
  - exposure to applied engineering skills important in addition to theory
  - Bucknell students have the ability to continue learning after graduation

- **Upscaling – What does a new engineer need to be prepared for what will be required of engineers 20 years from now?** – comments from alumni:
  - “highly trained = entry level”
  - there exists a misalignment between students understanding of opportunities and what is out there awaiting them
  - strategic thinking
  - students need to be able to risk “failure” in their coarse selection in order to pursue “boundary” opportunities
  - new technologies
    - more ubiquitous computing and mobile computing
    - systems integration of components engineered by others
  - work ethic

- **What should not change about the Bucknell experience?** – comments from alumni:
  - access to participation in extracurricular activities
  - personal contact with faculty
There was additional discussion concerning attention given to hardware vs. software and the relevance of various software products/languages (ie. C, Java, AutoCAD, MATLAB, etc.)

**Mechanical Engineering**

Professor Knisely started off with a discussion of ENGR 290 Engineering in a Global/Societal Context (http://www.bucknell.edu/x64771.xml). This provides Bucknell engineering students an opportunity to learn abroad with foreign students. This year students will participating in one of two trips.

- **Argentina - Foundation for future growth of a Middle-Emerging Economy**
- **Sustainable Energy & Eco-Tourism in Costa Rica**

Although all the students that have participated in past years have thoroughly enjoyed the experience, it is hard to get many involved due to the cost.

The largest portion of our time was spent on the Accreditation Board for Engineering and Technology (ABET) visit this year. As a result of the 2008 ABET review, Bucknell developed a set of Program Educational Objectives (PEO) to meet a requirement. ABET has changed their focus from “course counting” to the achievement of graduates. These objectives are intended to encompass how the College prepares students for their futures 3-5 years after graduation. The objectives are rather generic due to the broad experiences of graduates and the criteria from ABET. The intention is to show how the college keeps up with technology and society. Another challenge that Bucknell has is that many students get into fields other than engineering, such as law and medicine. 15% of graduates enter grad school after graduation. Fortunately Bucknell does a very good job tracking its alumni so getting a good survey of recent grads was not too difficult. Other schools have a much harder time.

The PEO requirements and others are constantly being changed by ABET. Comments on the objectives related to how they show how Bucknell is unique and provided the value proposition. There was mention that Villanova does a good job of selling their program. Professor Kim mentioned Bucknell doesn’t do a good job advertising, but we win them over when they visit. After a long discussion, the PEOs were approved.

The American Society of Mechanical Engineers (ASME) has recommended to ABET there be two tracks for an undergraduate ME degree; Thermal and Mechanisms. There was some concern from the alumni that it is too early to determine which track to go on so early in a student’s career.

Mechanical Engineering class sizes used to be targeted for 35. However recent classes have been above 40. The new target is 44 with a firm cap at 48. This will require more than one section for many classes. The hard cap will mean that anyone that is undeclared would not be able to get into the ME program if there are already 48 students in an ME class. As a result the number undeclared students will drop from 50 to 20.

Bucknell has been using Visiting Professors to fill gaps when class sizes rise. However, the Provost has the final decision on how resources are allocated to the college.

Professor Craig Beal led us in a word association to describe a successful Bucknell engineer.
Personality  
Educated  
Dynamic  
Breadth and Depth – T-shaped  
Motivated, Driven  
Global  
Communication  
Collaboration  
Inclusive  
Negotiate  
Strategic  
Ability to solve open-ended questions  
Confidence  
Good Leaders  
Improving  
Accountable  
Responsible  
Ethics  
Sustainability – A Green mindset  
Strong Math Background  
Cross-Functional  
Work with EEs  
Planning  
Organization  
Time Management  
Growth Oriented  
Continuous Improvement  
Understand financial and schedule constraints  
Basic Financial Understanding  
ROI  
Work Ethic and Discipline  
Balance between analytical and hands on  
Innovative  

Prof. Beal also mentioned that the College is adding an Entrepreneurial program.

Civil & Environmental Engineering – Brad Seamans

Tom DeStefano provided an update about the department in general:
Admissions stats:

Class of 2016 – 23% acceptance, 181 enrolled for a yield of 35%, 33% women, 16.5% of color and 16.5% first generation students.
The enrollment management plan targets 32 for Civil and 16max for Environmental
The relatively high enrollment led to 4 visiting professors, also because 2 profs are on leave this year.
USNews ranked the program #4.
The Environmental Engineering degree program was approved 10/12. It differs from the CE degree as follows:

Science requirements are specific: geology, chemistry, biology, physics
Sustainability – 4 courses required, 1 is economics – 57 possible choices for others
Environmental engineering courses – wide spectrum of offerings

Open discussion:
- LEED certification for students? Considered by faculty, encouraged by BEAA members as good credential
- Faculty are looking for senior design collaboration opportunities
- Several alums concurred: conversation and writing skills are critical – phone calls, public speaking, presentation skills are all important
- Suggestion was made to include alums in Senior design presentations for feedback
- BEAA alums consider technical skills still very important – fundamentals must be there to be successful

There was a brief discussion of online education – Bucknell must emphasize the residential experience beyond the classroom experience - labs and faculty interaction are important advantages that can not be augmented by online resources and lectures.

Computer Science – Christina Garman

*Attendees:* Professor Stephen Guattery, Professor Daniel Hyde, Professor Xiannong Meng, Professor Lea Wittie, Christina Garman `11, Donald Myers `89, Michael Rakszawski `08

**Restructuring of Core Curriculum**
- Now in second year of new curriculum
- Focus on the “big questions” in CS
- More new material for students even with programming background
- Students now get exposure to multiple programming languages
- Students seem to be happier because it levels the playing field more
- So far so good – faculty seem to like it and students seem like they're doing well

**Jobs/Grad School**
- Looking good so far – students with grad school and job offers already
- Receiving a lot of emails from Bucknell alums looking for BU CS students (both CS alums and people outside of CS looking for CS students)
- Always looking for people to take on students as interns

**Miscellaneous**
- Hiring two new faculty members
- Senior Design now a W2 course
- Discussed what we've seen in industry/world, anything that we were lacking after graduation, what the department can do better to prepare students
Affinity On Campus Breakout Session Notes

1. Reunion
   a. Games
      i. Spaghetti Tower
      ii. Nuts and Bolts
   b. Is campus doing a tour of Academic West
   c. Possibly a Building and Planning Department Presentation – describing what might be in the works for the campus
   d. Could Eng 100 save some of their contraptions for display during Reunion Weekend?
   e. Brainstormed Ideas for future Reunions
      i. Silent Auction – money raised could benefit BEAA Campaign Initiative
         1. Tours
         2. Bucknell Garb
         3. Framed historic Bucknell print
   f. Discipline Tours
      i. Maybe use Engineering Student Ambassadors
   g. Display of Senior Projects

2. Homecoming
   a. Dinner – earlier the better – to get students to attend
   b. Marketing for Induction, so Juniors and Seniors attend dinner
      i. Maybe faculty could help advertise/inform students about BEAA

3. Feb meeting
   a. Dinner observations
      i. Food served slow
      ii. Room set-up issues
         1. Limited viewing on the edges of the room
         2. More screens?
         3. Simulcast on TV screens around Bostwick?
      iii. Social
         1. Liked that it stayed in the LC
         2. Walls Lounge is nicer than the Center Room
         3. Instead of chips/pretzels – maybe chocolates/dessert bites
         4. Bar packed up at 9:30pm

4. Other
   a. Solicit more Alumni for Senior Design for a more diverse audience
   b. Comp. Sci – no Chair (or designee) attended Dept Meeting, so the meeting was not lead
Career Development Breakout Session Notes

1. Conference call scheduling:
   a. Calendars are pretty flexible at this point
   b. Committee members prefer Tuesday or Thursday afternoons / evenings (ideally 4 – 5 PM)
   c. Would like to target: 16 April / 18 April and 14 May / 16 May (as potential dates)

2. Review of committee events
   a. Connections for Engineers Event (Homecoming) – feedback from the event continues to be very positive. Students commented that the timing is great for students who need to declare an engineering major (discipline) and having the chance to speak with alumni regarding their own career paths is very helpful. Students have also been very well prepared for the event (professional dress, asking good questions, etc). Many students who meet with alumni during this event “reconnect” with alumni at the Career Networking Event in February. At this point there is no need to modify / change the event.
   b. Career Networking Event (National Engineers Week) – Ever since the change was made to the E-week scoring metric for CNE participation, attendance at the event has been down: 2011 (125), 2012 (129) and 2013 (118). Previously, attendance ranged from 155 students in 2004 to 247 students in 2010. However, the consensus feedback on the event feedback is that the quality of the student interactions at the event has improved tremendously for those who do attend. Students provided positive feedback on the event and shared that they really like the “focus” tables on resume writing, interviewing, and grad schools. Discussion occurred on whether to combine resume writing with interviewing; however, students wanted to keep these tables separate since some students may have different needs. Therefore, we will maintain the status quo for the focus tables. However, student / alumni feedback was unanimous that alumni who are representing the grad school table should have their “other” university / degree / graduation year (potentially) indicated rather than the company they represent. This would help students understand the Masters / PhD programs that the alumni completed. Feedback was unanimous that the “colored dots” to identify the majors / disciplines was helpful. The committee believes that the alumni representatives should also have colored dots (not just for the major they received at Bucknell / but potentially also for the work that they do now (i.e. a ChemE working in a MechE role would have a ChemE and MechE dot). Also the committee would like to explore if a letter code could be applied to the colored dot (in case participants were color-blind). Students indicated that they thought the event was helpful. The faculty believes that achieving high quality interactions, for the students that do attend, is more valuable than achieving higher attendance. Therefore, there are no major changes planned for the CNE event for next year.

3. CDC updates by Sarah Bell
   a. Sarah Bell from the Career Development Center provided a handout entitled “Spring 2013 Educational Programs” and discussed CDC offerings for the semester
4. Discuss “Day in the Life” series
   a. Sarah Bell discussed a new series called “Day in the Life” – where Bucknell alumni “share” events that occur throughout the course of their normal workday on Twitter and field questions from students / other alumni about their careers and what it is like to work in their industry
   b. The event was “borrowed” from the University of Pennsylvania CDC
   c. The event enables alumni who want to engage with the university; however, may be unable to travel to the campus
   d. If you cannot participate in the live feed, a recap of the conversation is captured through Storify so that students / alumni can access the archived content (http://storify.com/BucknellCareer)
   e. The Career Development Committee may be able to assist with identifying potential speaker opportunities for the CDC to leverage. These speakers could also be leveraged for the Guest Lecturers (identified in item 5.b.i – below)

5. Explore targeted survey for alumni
   a. The faculty would like an easy-to-use resource to quickly identify alumni that can support their department’s needs
   b. Faculty are looking for support for the following items:
      i. Guest Lecturers
      ii. Senior Design Partnerships / Projects
         1. Ideas for Projects
         2. Industry Partners
         3. Alumni Audience Members (to listen to the final presentation - to make the event more professional vs. academic in nature –i.e. students react differently when non-faculty members participate / ask questions)
         4. Document Review – (i.e. send senior design project documents to alumni for industry review – i.e. to FDA expert for food / medical device projects)
      iii. Field Trip Opportunities
      iv. Internship Opportunities for students
   c. The Civil Engineering department indicated that they may have an alumni solicitation survey that could serve as a model
   d. The survey should include an estimated time commitment, so alumni understand the time / travel required for support (i.e. 4 month commitment for senior design partnership vs. 1 afternoon in Lewisburg for Senior Design report-outs, or a 1-time commitment of a couple of hours to review documents and provide feedback) – faculty expressed concern that sometimes alumni commit to support something but then do not follow-thru
   e. Faculty are willing to pre-populate a section of the survey with the target areas they are interested in (i.e. desired guest lecture topics)

6. Review EBI survey results
a. The committee reviewed the EBI survey results and discussed the overall rankings. The challenge of some of the issues identified – i.e. satisfaction with the number of large companies and geographic distribution of companies recruiting on campus was discussed. Many large companies leverage a “target” school or “tiered” recruiting approach. These methods limit the capability of some large companies to recruit at Bucknell because they may yield only a few hires versus potentially dozens at larger institutions. The CDC continues to work with their colleagues at Penn State to align Bucknell’s Career Fair events to follow those at Penn State to potentially capitalize on employers who are already in the area (to encourage potential employers to extend their trip one day and visit Bucknell). The CDC also has facilitated transportation to the Penn State career fair for interested students.

b. Most large company recruiting relationships do not occur at the corporate level – they are a result of “grass-roots” efforts of Bucknell alumni who work to develop the relationship.

c. There was some discussion of potentially developing a marketing video / materials to share with prospective employers about the “value” that a Bucknell engineer brings to their organization (created through the unique, personal residential learning experience delivered at Bucknell).

d. The committee felt that the only EBI survey item that could be potentially addressed was: satisfaction with the assistance provided during the job search process.

7. Student feedback on potential new CDC services

a. Students expressed frustration with the difficulty obtaining access to alumni contact information
   i. Students would like a lists of alumni volunteers willing to provide resume / industry advice
   ii. The CDC does not distribute lists due to potential misuse – bulk email, spam, etc. – this is a directive from Alumni Relations office
   iii. Students indicated the process to get access to the alumni database (B-link) took a month – Sarah indicated that it shouldn’t take more than a week (after students submit a “mock” email and voicemail message to ensure that alumni communications are professional). Sarah wanted to follow-up with students to determine why and where the breakdown in the process occurred.
   iv. Students indicated it was hard to use some of the existing search tools – however, Sarah indicated a CDC “gadget” was available on the website that provided the desired functionality. It was suggested that we review the existing user training documents and suggest potential improvements to the user training experience – training material, advertise / market “gadget” functionality, etc.

b. Feedback on resume review – During the last 6 months, Scott Higgins corresponded with 3 students over email to provide resume critique – then used CNE event to personally meet with two students to discuss feedback personally

c. Overall students generally happy with career advice and access to alumni (especially through alumni events held on campus)

8. Items from the Floor – None
Affinity Off Campus & BEN Events Session Notes

1. Discussion: It was decided to combine the two groups for this breakout session in order to provide more people for brainstorming new off-campus tour opportunities
   a. The BEN paradigm is well-understood in that we aim to hold 2-3 BEN events / year and they are generally held in coordination with either a faculty / student conference or a BEAA tour.
   b. In addition the Alumni Services personnel are now assisting with inviting people to the BEN events and in coordinating the timing so as not to conflict with the President’s/Campaign’s schedule.
   c. Next BEN event in June in Georgia, followed by Pittsburgh in late summer/full and Philly in Spring 2014

2. Goals for meeting:
   a. Brainstorm ideas for tours
   b. Set up two conference calls for combined group between now and Reunion meeting.

3. Lessons learned
   a. Goal of holding 2-3 BEN Events and 2-3 tours per year is a realistic and achievable one
   b. The model of combining a tour with a BEN event has proven fruitful
   c. The bridge (Brooklyn, so far) and Hershey Park tours are perennial favorites
   d. The rest of the university community is benefiting from our initial work on BEN events and has expanded their scope to other majors/focus areas.

4. Conference Calls
   a. Friday March 22nd Noon
   b. Friday April 26th Noon

5. Tour Ideas
   a. See *Feb mtg Appendix B3 (pg 25)*, many still need a volunteer to do an initial contact
## APPENDIX B3

### Affinity Off Campus & BEN Events Tour Idea Spreadsheet

**BEAA Board of Directors Meeting**  
**February 23, 2013**

<table>
<thead>
<tr>
<th>#</th>
<th>Title</th>
<th>Location</th>
<th>POC</th>
<th>Status</th>
<th>Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Civ E Field Trip</td>
<td>Various</td>
<td>Lois (Toole/Engle)</td>
<td>The Senior Civ Es go for a number of Civil Engineering Field trips in a week of their Fall Semester Sr. Year. We may be able to easily set up an opportunity for alumni to accompany the Sr Civ Es on one of these tours.</td>
<td>Fall XX</td>
</tr>
<tr>
<td>2</td>
<td>Logistic/Distribution Center</td>
<td>AmerisourceBergen</td>
<td>Mitch Blumenfeld</td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Logistic/Distribution Center</td>
<td>Costco/New Market, MD</td>
<td>Joanne Janssen</td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Bridge Tour</td>
<td>San Francisco</td>
<td>Lois (Buonopane)</td>
<td>Lois to check with professor Buonopane to see if it is feasible to do a bridge walk in honor of the Golden Gate Bridge's 75th anniversary</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Merck Plant Tour</td>
<td>Danville, PA</td>
<td>Scott Higgins</td>
<td>Will follow-up further - found out ChemE students take a tour yearly</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Powerplant Tour</td>
<td>Various</td>
<td>Stephen Parker</td>
<td>Check Limerick, Peach Bottom, Safe Harbor, Youghioghany, Alumni POC? Nuclear even tighter on security</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Voith Hydro</td>
<td>York, PA</td>
<td>Stephen Parker?</td>
<td>Seemed pretty enthusiastic - very good possibility</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Site Name</td>
<td>City, State</td>
<td>Contact Person</td>
<td>Notes</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------------------</td>
<td>-------------</td>
<td>-------------------------</td>
<td>------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Water Treatment Plant Tour</td>
<td>York, PA</td>
<td>Joanne Janssen (Jeff Hines)</td>
<td>Email from Jeff with 3 different potential tours</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Sikorsky</td>
<td>Stratford, Ct</td>
<td>Aaron Spak</td>
<td>Still a possible, but we are clamping down on any potential export risks with non-US persons. Will need to plan it with enough time.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Rich's Food</td>
<td>Buffalo, NY</td>
<td>Sarah Manley (Wendy Barth)</td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>SW Vendor using Agile - Google</td>
<td></td>
<td>Don Myers</td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Small Manufacturing - J&amp;S Precision Products</td>
<td>Medford, NJ (outside Philly)</td>
<td>Joanne Janssen</td>
<td>J&amp;S is willing to do tours, but is currently experiencing a slow down, we should wait a bit to see how business is doing, check back in Fall 13/Spring 14</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Trash to Energy Plant</td>
<td>Lewisburg?</td>
<td>Lois</td>
<td>A new trash to energy recycling plant opened near campus. Since it is new they might wish to show it off</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>New Stadium</td>
<td>Various (Brooklyn, Baltimore)</td>
<td>Weimer/Lois (Prof. Salyards)</td>
<td>Contact the Architecture Firm HLK (who is same as is doing campus changes) for master plan</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>New Stadium</td>
<td>Philly</td>
<td>Don Myers</td>
<td>Don to contact Eagles on possibility of tour</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Nanotechnology Lab</td>
<td>Upenn</td>
<td>Christina Garman</td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Watson Lab</td>
<td>IBM</td>
<td>Christina Garman (Shari Aser)</td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tour Name</td>
<td>Location</td>
<td>Contact</td>
<td>Notes</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------------------</td>
<td>---------------------------</td>
<td>---------</td>
<td>------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Nabisco/Frito Lay Tour</td>
<td>Williamsport</td>
<td>Lois</td>
<td>Look for alumni contacts, check with Brian Wojtysiak</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Lycoming Engine</td>
<td>Williamsport</td>
<td>Lois</td>
<td>Look for alumni contacts</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>VFX</td>
<td>California</td>
<td></td>
<td>Contact Bill W, the BU Awardee who won the Golden Globe/Oscar</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>EA Sports - Motion Capture Lab</td>
<td>Orlando/Vancouver</td>
<td></td>
<td>Look for alumni contacts</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Troegs Brewery</td>
<td>Harrisburg</td>
<td></td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Cement Plant Tour</td>
<td>Baltimore, MD</td>
<td></td>
<td>Check with Nancy Rhodis-Mayer</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Oyster Harvesting / Shrimp Farming</td>
<td>Eastern Shore, MD or MA</td>
<td></td>
<td>Look for alumni contacts</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Sloan Kettering</td>
<td>NY</td>
<td>Paul Booth</td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Arrow Heart/medical tour</td>
<td>York, PA</td>
<td></td>
<td>Look for alumni contacts</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>JWF</td>
<td>Johnstown, PA</td>
<td></td>
<td>Check with Brad Mostoller</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Refinery tour</td>
<td></td>
<td></td>
<td>Look for any alumni contacts</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Heinz Plant Tour</td>
<td>Pittsburgh, PA</td>
<td>Dan Weimer</td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Steel Mill Tour</td>
<td>Pittsburgh, PA</td>
<td>Dan Weimer</td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Babcock and Wilcox</td>
<td>Pittsburgh, PA</td>
<td>Dan Weimer</td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Eat 'n Park</td>
<td>Pittsburgh, PA</td>
<td>Dan Weimer</td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>UPMC - Heart transplants</td>
<td></td>
<td>Dan Weimer</td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>SW Development Team tour</td>
<td></td>
<td></td>
<td>Brainstorm on opportunities</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Subway SW Development Team</td>
<td></td>
<td></td>
<td>Check to see if possible</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>TMI (Nuclear) tour</td>
<td>Harrisburg</td>
<td>Stephen Parker</td>
<td>Less feasible</td>
<td></td>
</tr>
</tbody>
</table>

Add'l Tour info

<table>
<thead>
<tr>
<th>Tour Name</th>
<th>Location</th>
<th>Contact</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water taxi/bridge tour</td>
<td>Pittsburgh</td>
<td>Dan Weimer</td>
<td>Combo water taxi tour of points of interest and possibly Prof</td>
</tr>
</tbody>
</table>

- 26 -
<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
<th>Contact Person</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walts Mill</td>
<td>Outside of Pittsburgh</td>
<td>Stephen Parker</td>
<td>Training for nuclear inspectors - may be too far out from Pittsburgh</td>
</tr>
<tr>
<td><strong>The Hot Cell</strong></td>
<td>Churchill (E of Pitt)</td>
<td>Stephen Parker</td>
<td>Manufactures testing materials that are used in nuclear facilities; uses lots of robotics. Tour would accommodate 10 at a time and can last between 30 minutes &amp; 2 hours. Stephen P and Dan W will work w/Lois to possibly pin this down as The Pittsburgh event in Fall 2013. BEN Event would take place in downtown Pittsburgh. Possible date of Thursday, Aug 22nd.</td>
</tr>
</tbody>
</table>
APPENDIX C

BEAA Board of Directors Meeting Agenda
Reunion Weekend
Saturday, June 1, 2013

Attendees:

**BEAA Board:** Aaron Spak, Adam Jacob, Andrew Van Schooneveld, Brad Gething, Brad Seamans, Brian Wojtysiak, Daniel Weimer, Darryl Novak, Frank Pancoast, Helen Reetz, James Geiling, Jeff Hines, Joanne Janssen, Jonathan Cabelly, Justin Greenly, Lance Lauletta, Mitch Blumenfeld, Richard McFadden, Sarah Manley, Scott Higgins, Stacy Wolin, Stephen Parker, Suzanne Schicktanz, Winnie Okello

**Faculty and Staff:** Mike Toole, Keith Buffinton, Lois Engle, Sarah Bell, Candice McGaw

**Guests:** Bob Burnett (Former BEAA President), Chuck Wharton, Travis Martin, Michael Rakszawski

**Welcome and Opening Business - Suzanne Schicktanz**

Suzanne welcomed everyone to the meeting. The next two meeting dates are October 25-26 (Homecoming) and February 21-22 (Engineering Week).

February meeting minutes were unanimously approved.

The operating handbook will be updated after this meeting and then made available on the website. Going forward we will not provide printed copies unless requested.

Committee chairs are reminded to provide a brief summary of the committee’s activities for the past year and send to Candice by July 15th for inclusion in the annual report.

Suzanne reminded the group that the fiscal year ends at the end of June and requested that everyone remember to make a contribution for this year.

**Cocktails & Contraptions Event Preparation - Jeff Hines**

This year we will be doing spaghetti towers and the nuts and bolts games. Starting next year we will be going to different events. We usually rotate every 4-5 years so that people see different games during their 5 year reunion cycle.

**Nominations Committee Business - Darryl Novak**

Darryl reviewed the nominations slate of Andrew Yeatts, Travis Martin, Vicki Scholtes (regular slots) and Marc Henry and Mike Rakszawski (0-5 year slots). All nominees were unanimously elected to the board.

**Affinity Off-Campus (Tours and BEN) Updates - Joanne Janssen and Stacy Wolin**
The next BEN event is scheduled June 23 in Atlanta. In August/September there will be a tour outside of Pittsburgh (Westinghouse Electric test lab for radioactive material) which will dovetail with a BEN event. 30 different tour options are on the list for consideration and there are several tours that are being actively worked on.

Joanne and Lois met with the Bucknell Professional Network representatives. They are looking to partner with some BEN events and include engineers in their activities.

**Career Development Committee and CDC Updates - Brian Wojtysiak and Sarah Bell**
Planning to include more graduate school information at the February Career Networking Event for students who are interested in learning more about graduate school options. Planning to maintain the Connections for Engineers event for Homecoming and the Career Networking Event for the coming academic year.

Committee is putting out a survey to collect volunteer information from alumni. Survey will help identify alumni who are able to sponsor projects, help review design documents, return to campus for speaking opportunities, etc.

Sarah provided an update from the CDC. She reviewed a new program called “A Day in the Life” where alums can talk about their day with students via Twitter. An alum is asked to tweet about their day through an account administered through the University. Students are able to ask questions throughout the day and the final transcript of the day is loaded into Storify.

Good feedback from a student has led to a new program during the week before Homecoming to help students understand the most efficient ways to get in touch with alumni. CDC will set up tables in Dana Engineering to talk with students about alumni interactions.

Sarah shared the 2012 post-graduation survey - 99% response rate to the survey this year. 97% of students placed within 9 months of graduation. Grad school numbers have declined a bit from prior years. Anyone who is “still seeking employment” is proactively contacted by alumni career services.

**BEAA Campaign Initiative - Suzanne Schicktanz & Mitch Blumenfeld**
Mitch and Suzanne discussed how the BEAA could support the We Do Campaign. Discussed alignment of BEAA areas of focus and most appropriate means of how BEAA could support the campaign. Keith indicated that this is a great way of showing BEAA support of the University, enhancing visibility of BEAA in a broader context.

The group discussion narrowed down to two areas: Scholarship for Study Abroad, Fund for Sustainability Studies.

*Study abroad*: aligned with WeDo, global focus, increase engineering participation, financial aid

*Sustainability studies*: aligned with WeDo, summer program (modeled on ILTM), focus on alternative energy and sustainability (env, social, economic concerns)… other BU related initiatives: new faculty member focused on sustainability, res college starting this fall - this fund may be more flexible for faculty, student, research support.
We reviewed the various vehicles for giving: current use (1x gift), endowment (BU trying to build it’s endowment, longer term (forever) benefit)

There was a lively general discussion with the group, with broad support for continuing a campaign initiative under the guidance of a committee of the board. Summary of discussion is as follow: Why narrow the focus to only one initiative? Why not keep both? (enhanced focus, enhanced benefit, ease of garnering support). Create a BEAA scholarship… allow use as dictated by need (define current top priorities, “sustainability” may not be appropriate 10 years from now, allow to flex over time)? May cast a broader net in case these two are not hot buttons for contributors. Would this detract from other fund raising initiatives? (Engr Fund, general fund). How are we tapping into expertise from BU development/endowment experts in defining how we can build flexibility into the fund? Are we considering other means of contributing (e.g. insurance, annuities, etc)? Are there guidelines that we should build in (only for students? Only for faculty?) What would it take to get BEAA name on a building? (or specific labs, wings, etc)… don’t delay decision too long – otherwise we will lose donors to other funds. Use Development Committee to steer use of funds….. use “success stories” to help drive interest in donation to fund. Can we leverage BEN events to advertise this fund?

**Decision:**

Initiative: Create a general endowed fund in support of the College of Engineering with funding priorities to be decided and reviewed periodically by the BEAA Board of Directors in conjunction with the leadership of the College.

**Vehicle for giving:** Endowment  
**Target:** 5 yr target of $500,000

The Development committee of the board is to further develop a recommendation on BEAA-directed fund, bring back at next meeting for further discussion, establish financial targets in conjunction with Development and Alumni Relations, and start working on an execution plan.

Mike Toole suggested “Fund for Transformative Engineering Education” as a name for this endowed fund.

**BEAA Transitions**

Suzanne Schicktanz completes her term as President of the BEAA and her long service on the BEAA Board of Directors in July, 2013. She will be succeeded in the role of President by Mitchell Blumenfeld who has served on the Board of Directors since 2005.

Rich McFadden will assume the role of Secretary of the Board effective in July 2013.

**Informal Questions and Answers - Keith Buffinton**

Due to the earlier time for the Reunion Rally the Q&A session was much shorter. We look forward to a more detailed update and Q&A session with Keith during the Homecoming meeting in October.

**Closing Business - Suzanne Schicktanz, BEAA President**
A final reminder that the annual giving fiscal year ends in June and we expect everyone to participate.

Next meeting is October 25 at Homecoming.

Meeting was adjourned.
APPENDIX D

Career Development Committee 2012-2013
Brian Wojtysiak '01, Chair

The BEAA Career Development Committee (CDC) continues to connect Bucknell students, faculty and alumni to provide students with career counseling, career networking opportunities, and share insights into emerging trends in industry. During our events, students can network with industry professionals and explore potential career paths through internships, externships, and full-time employment opportunities. The committee hosted its seventh annual Connections for Engineers event during Homecoming Weekend and conducted our very successful Career Networking Event at the conclusion of National Engineers' Week with strong levels of alumni engagement.

During the 2012-13 academic year, the committee has worked hard to expand its scope of engagement beyond the traditional BEAA Board meeting weekends: providing career counseling advice remotely to students through Skype, engaging in a new CDC job shadowing series called a “Day in the Life” utilizing Twitter and Storify, and has begun developing an Engineering Alumni Database so that faculty can identify potential student design projects, invite potential guest lecturers back to campus to share their particular subject matter expertise, and leverage opportunities to augment classroom learning through field trips with industry.

Our Connections for Engineers event is a collaboration with the instructors from the first-year Exploring Engineering course and brings together first-year engineering students and alumni. This year 189 students attended the event. Thirty-two alumni met with students in small groups to talk about life at Bucknell, career and academic choices, and potential future career paths. Feedback from the students and faculty continues to be very positive and we look forward to hosting these events in the future.

Traditionally, National Engineers' Week has been a very busy time for the College of Engineering. For over a decade, the BEAA has sponsored a highly successful Career Networking Event (CNE) on Friday afternoon prior to the awards dinner. Alumni attending this event represent a diverse mix of careers including sales, publishing, consulting, risk management, consumer products and health care in addition to more traditional engineering careers in civil engineering, defense, electronics, software engineering, etc. After many successful years running this event, in 2010, the BEAA modified the event format slightly with the addition of small focus groups.

Staffed by alumni, these focus groups allowed students to get feedback on writing impactful resumes, cover letters and interviewing tips from staffing professionals and insight on graduate school from students who are currently and/or previously attended. Forty-eight alumni provided career advice, job opportunities, and networking connections. Due to the high levels of student interest and participation in these focused discussions, the committee has continued to embrace the revised format.

For the first time in the history of the CNE, several students leveraged teleconferencing applications, such as Skype, to connect with alumni prior to the event to get valuable feedback on their resumes. Several weeks later (at the CNE), these same students were able to meet with
alumni face-to-face in Larison Dining Hall to review their revised documents and discuss interviewing techniques and thank-you letter writing. The CDC is also supporting the Career Development Center’s “Day in the Life” series which allows students and alumni to “virtually” job shadow an engineer and ask questions about their work throughout the day using Twitter. For those that cannot participate in “real-time”, the university archives the content using a tool called Storify so that it can be accessed at a later date.

The BEAA CDC also wants to serve as a resource for the Bucknell Engineering faculty by providing “connections” to alumni working in various industries. These alumni could provide guest lectures or field trip events to supplement classroom learning. These alumni may also have “real-world” engineering problems that could be solved by Bucknell students through the senior design curriculum, providing students with opportunities to design solutions for professional customers. Additionally, alumni can connect with students to offer subject matter expertise and insight into the student’s design throughout the course of its evolution. Therefore, the committee has been working to construct an online survey to collect information from alumni to populate a database for faculty use. The committee is actively soliciting feedback on ways to enhance its events for the next generation of Bucknell engineers and is looking forward to another great year!