



**Bucknell Engineering Alumni Association
Annual Report
2010-2011**

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INTRODUCTION

Beginning in 2002-2003, the Bucknell Engineering Alumni Association Board of Directors marked the beginning of a new approach to document the accomplishments of the Bucknell Engineering Alumni Association. The Board of Directors assigned this task to the Planning Committee so that the Board, the Association members, the College of Engineering and the University had a synopsis and permanent record of the activities and accomplishments of the Association. The minutes of the meetings of the Board of Directors are attached to provide the details of the Board's actions during the 2010-2011 academic year.

PRESIDENT'S MESSAGE

BEAA President's Report, 2010-2011 – Suzanne Schicktanz '80

In my first year as President of the BEAA, I continue to be impressed by this amazing group of volunteers and their dedicated commitment to the students, faculty, College and University. I am honored to lead this fine organization. I took the reins from former BEAA President, Rob Van Schooneveld, last June. Rob created a strong foundation for even greater contribution in the years ahead. Last year the BEAA built upon our objective of connecting with the students, faculty, College of Engineering and University.

The BEAA worked with first-year students during the Homecoming Connections event to make the links between their studies, engineering discipline and potential future career paths. We supported all engineering students during the Career Networking event to help give insights to the career options available and also helped prepare them for interviews with potential employers. There were also other student based activities led by the BEAA to help students navigate towards attaining their degree and a career.

The BEAA continued to grow and develop our connection with the faculty by meeting with individual departments in February to give input with the goal to maintain Bucknell's high accreditation rating. The BEAA also worked with the faculty to identify industry trends so curriculums can be offered that are in step with market demands.

The BEAA helps engineering alums stay connected to Bucknell through BEAA supported activities. The BEAA in conjunction with the BPN held Bucknell Engineering Network (BEN) events several times throughout the year in various locations across the country. This year BEN events were held in Chicago, San Francisco, and London. Tours are another avenue for alums to connect with the University. This year, alums, students, and faculty toured McCormick Spice Company (Hunt Valley, Maryland) which provided a good experience for learning and networking outside the university.

This past year we celebrated Keith Buffinton being named Bucknell's Dean of Engineering providing a seamless transition since Keith was the Interim Dean of Engineering. Keith has been a great supporter of the BEAA and we look forward to working closely with him and his entire administration in the coming year to continue to enhance our connections.

In closing, I am excited to lead such a supportive and productive group. I look forward to another year of BEAA contributions and growth.

Respectfully,
Suzanne Schicktanz '80

DEAN'S MESSAGE

Dean's Report, 2010-11 – Keith W. Buffinton Ph.D.

This has been another year of transition here at Bucknell. We have a new President, a new Dean of Arts & Sciences, a new Dean of Students, a number of new faculty, and officially a new Dean of Engineering. I am of course thrilled with the opportunity to continue as Dean of the College of Engineering in the years ahead and to continue to work with the outstanding members of the Bucknell Engineering Alumni Association. Interestingly enough, my recent summer reading has included a book that Tom Rich had commissioned while he was Dean: *Bucknell: A Century of Engineering Education 1893-93*. In reading it, I learned that the Bucknell Engineering Alumni Association was organized by a group of 150 engineering graduates during Homecoming Weekend in 1955. I also learned that the establishment of the College of Engineering was approved by the Board of Trustees in June of 1961. We are thus dedicating this year to celebrating 50 years of being a separate College at Bucknell!

I greatly appreciate all of the many hours of service on behalf of the College and on behalf of our students that the current members of the BEAA, and in particular the members of the BEAA Board, have contributed. Our meetings have been lively and constructive, and I have greatly valued your suggestions for new and continuing initiatives. Beyond our meetings on campus, there have also been a number of other events and activities to which the Board and BEAA members have contributed. These have included:

- Homecoming Celebration including the presentation of the Distinguished Engineering Alumni Award to George Pierson '84, Career Connections with ENGR 100 students, engineering research symposium, induction of the junior class into the BEAA, and BEAA fall board meeting
- Alumni event at Google Headquarters in Mountain View, CA featuring Jim Steele, Civil Engineering '77
- Engineer's Week celebration dinner, Career Networking Event, and BEAA spring board meeting
- BEAA participation in ENGR 290 (Engineering in a Global and Societal Context) in Great Britain
- Reunion celebration, BEAA reunion meeting, and Cocktails and Contraptions
- Alumni event including a tour of the McCormick plant in Hunt Valley, MD, followed by a joint social event with the Bucknell Club of Baltimore
- Alumni event in San Francisco at Bechtel Corporate Headquarters featuring Amy Klement '96
Alumni event in Chicago featuring Pete Kadens '00 and Tom DiStefano, Professor of Civil and Environmental Engineering

I also appreciate the hard work that members of the Board have performed throughout the year to raise money for the Engineering Fund (we had almost 100% participation by Board members this year – many, many thanks!) and to help in the recruiting of students. For the class entering this fall, we had our lowest ever admission rate for the College of Engineering (22%) and highest ever percentage of women in the entering class (31.5%).

As I embark on this my first year as permanent Dean of Engineering, I am looking forward to many new opportunities on the near and far horizon. We are just completing an addition to the rear of Dana which will be dedicated on September 12th, work has already begun on creating the infrastructure that will pave the way for construction of new academic buildings behind Bertrand Library (including space for engineering), and I have announced the need for a strategic planning process within the College of Engineering beginning this fall, to which I hope the Board will contribute. We are also in the second year of the Engineering Success Alliance as we seek to diversify the student body of the College and we are actively seeking support for new initiatives in the areas of entrepreneurship and innovation. All of these initiatives and many others contribute to a bright future for the College. I very much look forward to working with the BEAA to further strengthen the foundation that will enable the College to offer outstanding educational opportunities for our students for another 50 years and beyond. Thank you once again for all your efforts and support!

COMMITTEE REPORTS / ACCOMPLISHMENTS

Career Development – Brian Wojtysiak '01, Chair

The BEAA Career Development Committee continues to bring students and alumni together on campus to share career advice and job opportunities. Students can network with industry professionals and explore potential career paths through internships, externships, and full-time opportunities. For the fifth consecutive year, the BEAA Career Development Committee hosted the Connections for Engineers event during Homecoming Weekend and continued our very successful Career Networking Event at the conclusion of National Engineers' Week. Alumni support for both events was very strong and continues to improve year after year.

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

National Engineers' Week continues to be a very busy time for the College of Engineering. For over a decade, the BEAA has sponsored a highly successful Career Networking Event on Friday afternoon prior to the awards dinner. Alumni attending this event represent a diverse mix of careers including law, sales, 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 by staffing professionals, graduate school insight from students currently attending graduate school, and advice on making the transition from college life to the professional workforce from alumni who recently made the switch. Thirty-five alumni provided career advice, job opportunities, and networking connections.

The BEAA Career Development Committee and engineering alumni continue to support the Engineering faculty and Career Development Center wherever needed. The committee continues to identify ways to enhance its events for the next generation of Bucknell engineers and looks forward to another great year!

Development – Suzanne Schicktanz '80, Chair

During the period of July 1, 2010, to June 30, 2011, the BEAA Board of Directors attained a 98% participation rate in giving to the **Engineering Fund**. "The leadership set by the BEAA Board of Directors in making an annual gift to the Engineering Fund is exceptional," says Keith Buffinton, dean of engineering. "The dedication of these board members is exceptional and the College benefits greatly by the programs and events they manage each year as well as their individual contributions given to the Engineering Fund."

Membership – Bradley Mostoller '88, Chair

For the term beginning July 1st, 2011, the BEAA Board of Directors had ten open positions. The board also has two open positions that must be filled by alumni who have graduated within the last five years.

The BEAA Nominations and Membership Committee reviewed the list of potential candidates for the Board of Directors. The Committee reduced the list of new candidates to a "shortlist" of top candidates for the open positions. A nominations committee member contacted each shortlist candidate to explain the activities of the BEAA and the responsibilities of a Board member.

The following current board members were nominated and elected to new three-year terms from July 1, 2011 through June 30, 2014:

Mitch Blumenfeld '91	3 rd Term
Jim Geiling '55	3 rd Term
Brad Gething '01	2 nd Term
Diane Hymas '79	2 nd Term
Joanne Janssen '87	3 rd Term
Lance Lauletta '80	2 nd Term
Stacy Wolin '87	3 rd Term

The following individuals were nominated and elected to the Board for three-year terms from July 1, 2011 through June 30, 2014:

Lisa Domanowski '00	(Mechanical)
Donald Myers '89	(Computer)
Andrew Van Schooneveld '02	(Civil)

For the positions requiring alumni who have graduated within the past five years, the following individuals were nominated and elected to the Board for three-year terms from July 1, 2011 through June 30, 2014:

Sarah Prendergast '08	(Chemical)
Dan Weimer '10	(Mechanical)

The committee also nominated the following candidates for officers for two-year terms:

VP Membership: Darryl Novak
Affinity - Off Campus Events Chair: Stacy Wolin
Affinity - On Campus Events Chair: Jeff Hines

All three were elected and will take office July 1, 2011.

It was our honor to nominate Dr. Alan Bilanin ('68) to receive the Distinguished Engineering Alumni Award. The award will be presented during Homecoming Weekend in October.

Affinity On Campus Events – Stacy Wolin '87, Jeff Hines '84, Chairs

This year, the Affinity On-Campus Events Committee included engineering students, alumni and friends at a number of on and off-campus events. Highlights of the year included the following:

- In October 2010, as part of Homecoming Weekend, engineering faculty and the BEAA hosted the engineering tent at the annual Bucknell Village. Alumni and their families gathered there in the crisp October air to reconnect with each other, faculty and friends while participating in fun engineering-related activities sponsored by the BEAA. Lunch with refreshments was offered by the University. The event was a great success.
- Also held during Homecoming Weekend, the BEAA Board along with other engineering alumni and friends of the College of Engineering gathered in Davis Gymnasium to support the 2010 student research symposium and induct the junior class into the BEAA. During the symposium, guests had the opportunity to review the projects and speak with many of the student researchers. Immediately following the symposium and prior to dinner, the Distinguished Engineering Alumni Award was presented to Mr. George Pierson '84. The event concluded with the induction of the Junior Class into the BEAA and recognition of the senior class of engineering students. The students were welcomed into the Association by BEAA President Suzanne Schicklanz.

- In February of 2011, as part of Engineers week, the BEAA Board and other engineering alumni participated in the well attended Career Networking Event. The weekend was rounded out by a SWE Meet and greet where Women engineering alumni met informally to share viewpoints.
- In June, the BEAA hosted another successful Cocktails and Contraptions social for Reunion Weekend. The event was held in the Dana Engineering lobby and adjacent rooms. Attendance was high, with over 200 guests enjoying games, snacks and refreshments. Alumni and their families brainstormed the best way to construct spaghetti towers from the materials provided, with 30 structures judged for small prizes. Younger children could race the clock with a Nuts and Bolts game. Fun was had by all.

Affinity Off Campus Tours – Liz Roman '91, Chair

In March 2011, the BEAA co-sponsored a tour of McCormick & Company in Hunt Valley, MD. Bucknell engineering students and faculty joined more than 25 alumni on March 28th to tour the headquarters of McCormick & Company. The tour gave the attendees a chance to explore the manufacturing and development facilities of the globally distributing flavor company, observing the world-class production technologies McCormick uses to meet the demands of its constantly-growing market share. Through the generosity and efforts of Gordon Stetz '83, CFO, and Kevin McCaughey '69, VP for Operations, McCormick & Company, Bucknell University was privileged to gain this unique experience into the world of flavoring manufacturing.

Affinity Off Campus Networking – Joanne Janssen '87, Chair, VP for Activities

During the past year, the BEAA co-hosted two Bucknell Engineering Networking (BEN) Events, in Chicago and San Francisco with the Bucknell Clubs in these areas and the Alumni Career Services office. The event in San Francisco was held at Bechtel on June 9, 2011, with Amy Klement '96 and Keith Buffinton, Dean of Engineering, speaking to more than 60 alumni, parents, and students. The Chicago event was held at 340 on the Park on June 14, 2011, with Pete Kadens '00, VP of SoCore Energy, discussing entrepreneurship and the future of the cleantech space and Tom DiStefano, Prof. of Civil & Environmental Engineering, discussing Sustainability at Bucknell. The event was attended by more than 35 alumni, parents, and students.

In June, we invited alumni to "come along for the ride" for the ENGR 290 course *Engineering in a Global and Societal Context* in London. The concept was to foster greater interactions between the alums and students, particularly those alums who have lived and worked abroad, to provide even greater perspective on the global and societal focus of the course.

In the third week of the program, which had 29 students from 5 engineering majors and four faculty instructors (Evans, Jablonski, Shackelford, Vogel), the group was joined by Lois Engle, Mitch Blumenfeld '91, Joanne Janssen '87, Erica Lange '10, Helen Reetz '78, and Walter Schwenger '10. For the first day the alums walked around the whole of Soho for a discussion of water and sanitation issues in the mid-19th century and then they all went on an incredible boat tour on the Thames to see how London looks from the river front perspective. While it was hard to top a dinner cruise down the Thames, the next evening included a flight on the famous London Eye followed by several of the alums, faculty and students seeing Eric Clapton and Steve Winwood together at the Royal Albert Hall, truly a once in a lifetime experience.

On the third day of the alumni-included portion of the course we took a great adventure by coach to Oxford, Malvern (home of the Morgan Motor Company where they still make cars by hand to individual specifications), and a quaint little brewery in the middle of nowhere on roads the coach could just barely navigate. The brewery, Hook Norton, has been in operation since the beginning of the 20th century and can run the entire operation from a single steam engine.

The end of the program included an alumni event organized with the Bucknell Club of London to allow the students, alums on the trip, and London alums currently living and working in the city, to network before the alumni, faculty and students boarded their planes to return to the USA.

Planning Committee – Mitchell Blumenfeld '91, Chair

The BEAA welcomed new leadership to its Board of Directors and also to the College of Engineering. Keith Buffinton will formally take over as Dean of the College of Engineering over the summer. Suzanne Schicktanz took over the role of BEAA President with Mitch Blumenfeld following her as Secretary and Chair of the Planning Committee.

Over the past year the Board has continued a variety of successful programs, including the Connection for Engineers event in the fall, Career Networking Event during National Engineers' Week, and a number of off-campus events co-sponsored by the Career Development Center, Alumni Relations, and the Bucknell Engineering Network.

Board members continued to support the annual calling program for the Engineering Fund in conjunction with the Development Office. We will be exploring additional ways to engage engineering alumni and students in supporting the College of Engineering's fundraising efforts.

Finally, the Board has been looking at new ways to engage with the faculty and expand upon our annual meetings with our respective departments. A number of alumni participated in a pilot program with the ENGR290 class in London.

ALUMNI AWARDS

The Bucknell Engineering Alumni Association presented its ninth Distinguished Engineering Alumni Award to George J. Pierson '84 during Homecoming Weekend 2010, in recognition of his accomplishments, wisdom, gentle professionalism, and dedication to his alma mater.

George J. Pierson attended Bucknell University as a member of the Class of 1984, graduating *summa cum laude* with the degree of Bachelor of Science in Civil Engineering. Pierson continued his studies as a Graduate Fellow at the University of California, Berkeley, earning the Master of Science in Civil Engineering degree in 1985. He undertook further studies and earned a Juris Doctor degree from Harvard Law School in 1990, and later a Master of Business Administration degree from St. Mary's College of California in 1995.

In 1990, Pierson joined Farella, Braun, & Martel, a San Francisco law firm, where he represented clients in complex construction disputes. In 1992, he joined Kvaerner E & C, a global engineering and construction services company, and was ultimately named Senior Vice President and General Counsel. With Kvaerner he structured and negotiated billions of dollars of construction projects around the world including in the United States, Thailand, the Philippines, Chile, Brazil, India, China, Russia, and Australia. From 2003 to 2006, Pierson was Partner and Director of the International Practice Group at Peckar & Abramson, one of the nation's leading construction law firms. While there, he represented the Government of Turkey on disputes arising out of a \$1.3 billion, 1,700 km crude oil pipeline. He was named a leading construction lawyer by Chambers USA.

In 2006, Pierson joined Parsons Brinckerhoff (PB) as a Senior Vice President, General Counsel and Secretary. Founded in 1885, PB is a global leader in the development of infrastructure to meet the needs of communities around the world. In January 2008, he became the President and Chief Operating Officer of PB's Americas division and was later elected to the firm's Board of Directors. In January 2010 he was promoted to President and Chief Executive Officer of PB and is now responsible for overseeing the efforts of more than 14,000 PB employees working on infrastructure projects from more than 150 offices throughout the world. While at PB, Pierson has been elected as a Fellow of the American College of Construction Lawyers and a member of The Moles. Pierson also serves on the National Executive Committee and Board of the ACE Mentor Program of America and was recently featured on the cover of *ENR* magazine.

The length and depth of George Pierson's commitment to Bucknell has been extraordinary through his service to our students by returning to Bucknell to speak in the classroom on numerous occasions, his development and presentation of a university-wide seminar on International Business Ethics, his placement of students in internships, and as the driving force to develop the Engineering Success Alliance that provides an academic support structure for diversity students studying engineering.

His accomplishments, service, and dedications to his profession, to society, and to Bucknell University have earned him the respect and gratitude of Bucknell University's engineering alumni.

It is therefore with the highest regard and warmest affection that on October 30, 2010, the Bucknell University College of Engineering and the Bucknell Engineering Alumni Association presented to George J. Pierson, Class of 1984, the Distinguished Engineering Alumni Award.

ANNOUNCEMENTS

Erica Augustenborg '06, James Tucker '07, Wende Pogust '79, Vicki Sholtes '78, Rob Van Schooneveld '75 concluded their terms the end of June 2011.

New and returning officers for the term beginning July 2011 are as follows:

Suzanne Schick Tanz '80, President
Joanne Janssen '87, Vice President, Activities
Darryl Novak '63, Vice President, Nominations & Membership
Mitch Blumenfeld '91, Secretary/Treasurer

New members for the term beginning July 2011 are as follows:

Daniel Weimer '10, Sarah Prendergast '08, Lisa Domanowski '00, Andrew Van Schooneveld '02, Donald Myers '89.

Brian Wojtysiak '01 will remain the Chair of the Career Development Committee.
Darryl Novak '63 will be the Chair of the Membership/Nominations Committee.
Stacy Wolin '87 will be the Chair of the Affinity Off Campus Tours Committee.
Mitchell Blumenfeld '91 will remain the Chair of the Planning Committee.
Jeffrey Hines '84 will be the Chair of the Affinity On Campus Events Committee
Joanne Janssen '87 will remain the Chair of the Affinity Off Campus Network Committee

The Executive Committee of the BEAA effective July 2011 will be Suzanne Schick Tanz '80, Mitchell Blumenfeld '91, Jeffrey Hines '84, Joanne Janssen '87, Darryl Novak '63, Brian Wojtysiak '01 and Stacy Wolin '87.

**Bucknell Engineering Alumni Association
Board of Directors Meeting
October 29 - 30, 2010 Meeting Minutes**

Attendees:

Board Members: Blumenfeld, Carpenter, Chaklader, Davis, Denning, Frank, Garman, Geiling, Greenly, Hasson, Hines, Hymas, Jacob, Janssen, Lauletta, Liutikas, McDonnell, Muyambi, Novak, Pancoast, Parker, Pogust, Rakszawski, Renzi, Roman, Schick Tanz, Seamans, Shafer, Sholtes, Spak, Tafuto, Terrell, Van Schooneveld, Vidoni, Weil, Wojtysiak, Wolin, Zapp

Faculty/Staff: Bell, Bowersox, Buffinton, Engle, Lazarski, Vigeant

Guests: Weniger '05, Wolf '11, Phan '13

Friday, October 29

Alumni Going Green Program – Julee Bertsch

- New CDC Program Director introduction
- 7 city tour with focus on green/sustainable work going on around Bucknell including a plan for the BEAA to partner for a BEN event in Chicago in June 2011
- Some BEAA members have experience in the green area

February Career Networking Event – Brian Wojtysiak

Discussion on changes proposed for the event:

1. How to make the event more relevant for 1st and 2nd year students
 - a. Resume prep, interview tips, grad school, transition to work – all as topics for table discussion in center of the room
 - b. Staffing – use CDC and alumni
 - c. Do we need to modify how the event is advertised so people don't expect a lot of internships/job offers – leverage student groups and professors to explain better
 - d. How can we tap into new alumni
 - e. New topic for discussion at the event – Summer research as an option
 - f. Do not want to change focus – just add another option for students to consider
2. Board not interested in opening up to others because it will feel too much like a career fair – do not want to change the dynamics – remain focused on engineers
3. Administrative change – color coding for name badges and company signs by degree area

PE Credit for BEN events / Other BEAA events – Jeff Hines

- Every 2 years you need 24 credits for PA – not pre-approved, self-logged (some states like NY must be pre-approved)
- Potential to hold events in conjunction with BEAA events – both taking classes and teaching classes
- Can use as a way to incentivize alumni to come to events
- For BEN events work with planners to make sure events are qualified as a way to bring people in
- BEAA should do the work – not put it on Lois
- Have to make sure we do not over-kill and drive away non-PE engineers
- Look at opportunities beyond BEN events – e.g. lifelong learning at Reunion weekend
- If we tie in with campus events, we can involve both students and faculty

Comments from President Bravman

Importance of Engineering/Liberal Arts – what makes Bucknell Special?

Challenges facing Bucknell – location, budgeting for strategic programs

Observations about differences in core curriculum for engineers and B.A. students

Saturday, October 30

Opening Comments – Suzanne Schicktanz

Thanks everyone for participation in yesterday's EG100 event.

Mary mentioned that the students having homework in advance prepares the students more effectively for the session. Students did not have as much information prepared for the sessions so it made the introductions a little more difficult.

ENGR290 in Brazil – Margot Vigeant

- Engineering in the Global and Societal Perspective – 3 week course in another place on planet earth. Students look at engineering and also the social aspects of the place they go to. How would your work life be different if you had to live/work in this country vs. where you are now?
- “Natural world driving the engineered world” – understanding Brasil's natural resources. Visited Rio, Sao Paulo and several smaller cities in Brasil. Visited Embraer jet factory. Looked at solar and wind power – Brasil is an energy independent country – many cars run on ethanol, hydro power is very well developed. Students were surprised that Brasil is not “the developing world” but is a very developed and advanced market. Visited a number of universities. Visited a coffee plantation. Visited largest sugar refinery on planet earth and sugar cane fields
- Very rewarding experience – learned a lot about Brasil, history, engineered systems. Next year going to England.

ENGR290 in London – Lois Engle

Very beginning stages of planning a pilot program to have alumni join a 1-week portion of the ENGR290 program. Trying to group alumni-friendly tours into the program during the week when the alumni are there. Saturday May 21 – Friday May 28, 2011. (tentative)

BEAA Housekeeping and Business – Suzanne

- Thanks to the student members of the board – welcome to the new and returning members on the board.
- Need to add Lauren Shaffer to the minutes from June meeting.
- Minutes from June meeting approved.
- Annual Report is complete and available on the BEAA website in B-link. Suggestion to change the process for the committee chairs to write the update during the June meeting so we are not chasing them to get these completed promptly.
- Operating Handbook – currently in draft form with a number of changes. Updated the positions that are currently in place for affinity committees (off-campus events, on campus events, and off-campus tour committees) and Vice President position that oversees activities and networking activities. Updated length of commitment for 0-5 year board members.
- Also updated responsibilities – asking that all committee chairs and board members review the document and provide feedback to Lois so this document can be completed.
- Have had discussions about involving faculty in our meetings and how to involve them more in the board business. Group discussed various ways to involve faculty in the board meetings – how many to involve, for what length of time, what might they be able to add to these meetings. Lois and Keith will go back to the faculty and work out how to engage them further.

Student Society Updates

- **ACM** – Bringing speakers to campus to try and generate more interest in the group. ACM picnic at the beginning of the semester. Bull Run Night last semester. Programming competition in 3 weeks – sending 4 teams to participate.
- **ASME** – Trying to increase outreach to younger students in the department. Scheduling a teacher talk for next semester. Set up an internship event with CDC. Sending several students to ASME conference.

- **NSBE** – Session for engineers to talk with students about what it means to be an engineer. Reaching out to new students and engaging them individually.
- **SWE** – Ice cream social with freshmen. Sending several women to the national conference to do networking and help find some jobs. Outreach event at Hufnagle Park for elementary school students in Lewisburg.
- **BMES** - Biomedical Engineering Society conference in Austin, TX – sent 15 people – 8 people presented summer research. Several students got funding for having presented their papers and the College provided funding for others. Invited a number of alumni to come speak.
- **AIChE** - Winery trip to see how wine is made and processed. Toured a power plant in Millersville near an old strip mining operation. National conference in SLC, 17 students attending and about half are presenting research at the conference.
- **Tau Beta Pi** - Application process underway and induction of new members in November. Later in the semester will have some social events to introduce new members. Looking into a program through TBP national office – “Engineering Futures”
- **ASCE** – Speaker coming to campus to discuss rebuilding, environmental aspects of construction. Setting up a mentorship program for underclassmen. Fundraiser for Halloween including all majors in the College. Raised \$300. Will compete in Concrete Canoe competition for first time in 8 years.

College Updates – Keith Buffinton

- Student activities and accomplishments - Some students from Tours, France came to work at Bucknell this summer in robotics and mechanisms projects. Good experience for our students.
- Ron Ziemian named as a Presidential Professor (Civil Engineering)
- Margot Vigeant and Steve Shooter featured on Bucknell “Ask the Experts” column
- SBDC hosted first annual Charles Coder Leadership in Entrepreneurial Innovation celebration.
- New Tenure Track faculty – Brian King (CS), Wendy Wright (Mech E)

College Initiatives

- Engineering Success Alliance (ESA) – established to support students coming from under-resourced high schools through mentorship, internships, and scholarships. 14 first-year students in the program starting this year.
- Sustainability Institute – looking at how we can include more in the curriculum, Tom DiStefano developing a minor in sustainability. A course to be offered in the spring semester.
- Bucknell Innovation Group – Steve Shooter and Doug Allen developing a new elective course and leading discussions around innovation and entrepreneurship
- Air Products Community College Scholars Support – focusing on STEM students from community college backgrounds
- Luce Fellowships – 7 inaugural Luce Scholars – targeting female engineering students (28.6% of entering engineering class is female – a record level)
- STEP Proposal – science, technology, engineering, and math talent expansion program – Steve Shooter and Mike Toole – looking for NSF funding with Union College
- Facilities – reallocated and renovated in Breakiron to create an additional laboratory for BMEG and a better design teaching area. Expansion of Dana Engineering to begin after the end of classes this year at the rear off the PDL
- Engineering application acceptance rate – record year in 2010, 26% acceptance (new record)
- Graduation rate – steady at about 82%
- EBI Engineering Survey – Career Development score improved in 2010 from #40 to #30 in ranking (out of 70 institutions), Computer Resources from #3 to #29 – need to understand what drove this big drop. Other categories moved up and down but +/- 2 or 3 points
- US News and World Report – 9th ranked in the nation College of Engineering. Computer Engineering went from 5th place to 3rd place ranking (despite not yet having a graduating class)
- Electrical engineering discipline continues to see low enrollment numbers – numbers are down nationally but not as much as Bucknell is seeing

- University Update - \$152 million was raised toward \$400 million goal
- Trustees approved infrastructure projects for new buildings, looking for money for Academic West (\$24 million), golf center under construction (\$2.3 million – entirely donor driven)

BEAA & BEN Web Presence – Nathan Wolf / Judy Phan / Lois Engle

- Developing Facebook, LinkedIn, and B-link pages
- Showed a demonstration of the newly developed pages
- Asked all BEAA Directors to join both pages

Off Campus Tours – Liz Roman

Looking for ideas for off campus tours – send email to Liz Roman with any ideas that you have

Closing Comments – Lois / Suzanne

- BEN Events in process for the spring
- Provide any feedback to Brian directly on the Connections for Engineers Event
- Proposal to add the web liaison students as permanent members of the board

Meeting was adjourned

**Bucknell Engineering Alumni Association
Board of Directors Meetings
February 25-26, 2011 Meeting Notes**

Attendees:

Board Members: Augustenborg, Booth, Gething, Greenly, Hines, Hymas, Jacob, Janssen, Lauletta, McDonnell, McFadden, Mostoller, Novak, Pancost, Parker, Pogust, Rakszawski, Reetz, Renzi, Roman, Schicktanz, Seamans, Shafer, Sholtes, Sobeck, Spak, Tucker, Van Schooneveld, Wojtysiak, Wolin

Students: Ian Hasson, Christina Garman, Carolyn Breden, Chris Zapp, Elise Terrell, Judy Phan, Rose Denning, Gabrielle Carpenter, Stephanie Liggitt, Gregory Stevensen, Nathan Wolf

Staff: S. Bell, S. Thompson, W. Wright, T. DiStefano, K. Marosi, K. Buffinton, L. Engle, S. Lazarski

Guests: Scott Higgins, Joe LaBarca, Don Myers, Nicholas Hanes, Erica Lange, Winnie Okello, John Boone, Lisa Domanowski, William Thoms, Robert Anderson, Matthew Gaydon

General Business: Suzanne Schicktanz, BEAA President

Engineering Gift fund: 2010-2011 Looking for 100% participation. Designate gift for Engineering fund, and even specific discipline if desired.

Giving – Development committee – Ron Marquette –Lois to send an email looking for volunteers in the next week or so to call people from their class years. Volunteer to call about 5 people and ask to donate. Calls will be in April this year.

Departmental Meetings:

- ChemE (Brad Gething) – ABET discussion (improvements), improvement of Web presence via Facebook, survey of student feedback.
- CivilE (Dave Sobeck) – new faculty to add to department, large class next year, high ranking in US News and World Report, successful study abroad, operating budget, research update.
- Computer ScienceE – voted to restructure core curriculum, make students better programmers, culminating experiences via projects, schedule flexibility, Comp Engineering major, recruiting internships, diminished undergrad research, math modeling contest, national science foundation grant.
- ElectricalE (Joanne Janssen) – recent hires, tenure for Jie Lin, courses to stay in curriculum, importance of communication, enrollment issues, increased web presence, alumni to help in outreach.
- MechE (Adam Jacob) - trends in enrollment, curriculum changes and path of concentration, suggestions for curriculum strengths and weaknesses such as 6Sigma, business and Econ, electives; faculty 1/3 women so hoping to keep trend high in students.
- BioMedE (Suzanne Schicktanz) – discussed Intellectual property when students are at other universities doing research, mission of department – very broad; what should the goal be. Growth - more applicants than openings for students - so pressure to expand, should we grow? MCATS are to change in 2014 so need to develop a plan for the curriculum to prepare the students.
- Walls Lounge Social event successful, replaced BEN event. Faculty stayed and socialized since the event was directly upstairs. Board members, student board members and faculty attended. Thought would be to replace with standalone BEN event with a Professor presenting research.

Staff/Professor presentation: NSF Career Research, Prof Wendelin Wright (Mech and Chem Eng)

– Recipient of NSF career award

- Strange Metals: The Mechanical Behavior of Metallic Glasses – presentation of research project to board
- Incredibly strong and elastic (no patterns and dislocations in atoms) – so premier spring material. Not found in nature (3 or more atoms) and cooled very quickly requiring to be made in a lab. Amorphous, Zirconium based. Material has a higher strength to weight ratio than steel. Will be used for electronic castings (Apple I Phone and laptop casings), sporting goods (golf club heads, tennis rackets), surgical

tools, industrial coatings. Can create using injection molding, patterned and embossed is cheaper to do. Problem that they are more brittle than crystalline glass.

- Projects – look at shear band and how long to propagate across the sample. Micropillar fabrication use in MEMS applications, fabricating amorphous metallic foams.

Career Networking Event, Brian Wojtysiak

Attendance lower than in the past – 240 signed up but only about half attended (125) unlike prior years when we would get 180-240 attending (Sports practices may be interfering). Also many attended very briefly. Only a few students brought resumes. Email told them to focus on networking as opposed to trying to get an internship/job from that person. Seniors already have jobs, so mostly sophomores and juniors attended. Suggestion to do earlier in year (October?), but that weekend is tight on time.

Changes this year – Focus tables on interviewing, resume, and transition. Good flow of students, small use on resume, and transition, but those who attended found it helpful.

Staff/Professor presentation: Sustainability in Curriculum, Prof Tom DiStefano:

- The Brundtland Definition – commonly used since 1987
- College of Engineering – Summer institute, Minor in Sustainability, new courses
- School of Management – Internship, Managing for Sustainability (Core), Accounting and Performance Management
- College of Arts and Sciences -Environmental perspective course
- Recommendations – create a minor course of study, required course for Engineering students, follow up institute for next steps, discussions between faculty and university administration to determine focus and commitment.
- Expand Brundtland definition to include - Incorporate socio-cultural and ecological factors. Water, fossil fuels, population explosion, food production and consumption, use of food product for other use (corn for autos), increased global temps due to urbanization, automobile centered and throw away economy.
- Students to be taught to perform Life-cycle assessment - “cradle to grave”.

Engineering Student Society Updates:

- ACM- Christina Garman - line up speakers, bonding.
- ASME – Chris Zapp - Prof Penn state presentation on coal, teacher talks, outreach program to help sophomores and juniors get internships secured.
- IEEE – Elise Terrell - speakers on smart grid and PPL, partner with IEEE in PA to get more speakers.
- SWE – Rose Denning - accepted students’ dinner, annual outreach events with elementary students, meet and greet directly after the Feb. meeting with alumni for mocktails in Dana 137.
- Facebook- Linked In –Judy Phan – doubled membership on Facebook and LinkedIn, will send email to alumni, all departments Facebook pages (Chem E already started), adding more Facebook content.
- AIChE – Ian Hasson - Chem E car took 3rd place, upcoming trip to McCormick plant.
- Tau Beta Phi- Carolyn Breden - New just initiated a month ago, FE Prep sessions, looking for a speaker workshop session in April, and plan community service.
- Chi Epsilon – April event with Boy Scouts, initiated new class.
- Not in Attendance: NSBE, BMES, ASCE.

Staff/Professor presentation: Engineering Success Alliance, Karen Marosi

- Barbara Steinhurst (Math adviser) is currently presenting at the multi-cultural convention in San Antonio.
- ESA Alumnus George Pierson – striving to increase diversity in engineering workforce so student population is representative of the national demographics. Parsons Brinkerhoff has made a grant of \$50,000 and will bring them for tour of the Ground Zero site. Resources needed for academic support particularly in math.

- Good percentage of women but need to focus on minorities. Posse program provides natural cohort.
- Alliance between Engineering industry and university.
- Program began in 2010. The first ESA class was 14 students (9 Posse- Leadership scholars and 2 TEAM mentors) from Miami, Washington DC, Baltimore, LA, NY, and Boston based on scores and high school attended.
- Improve experience via Math skills (Barbara Steinhurst and peer tutoring to be replaced by math lab working on harder problems together). Provides support, general academic and life skills, time management, and meals together. This is a success program not a remedial program.
- Yield – increased student engagement within majors, confidence, performance in math class, reduction in faculty barriers.
- Halfway to \$1M endowment goal, creating Advisory board.

College Updates Q&A: Keith Buffinton

What changes do you see coming in the engineering profession in the future and what should we do as educators to prepare for the changes in the engineering profession in the coming years?

Changing Global demographics: Aging populations over 65 increasing and the rising cost of energy have sparked the world wide focus on sustainability, educational disparities, global unrest and security. Worldwide and instantaneous communications, global partnerships in industry and education, off shoring and outsourcing of manufacturing and design, global competition for jobs, education, and employees, change in college age, demographics (whites in minority) will be challenging the engineering profession in the coming years.

Changes in education: Greater federal oversight and regulations (credit assignments, length of semester, cost calculator), competition between for-profit universities, ABET standards , professional organization pressures on prerequisites, increasing emphasis on innovation and entrepreneurship, high cost of small private residential education, student engagement and learning.

Environmental Changes: Make solar energy economical, provide energy from fusion, develop carbon sequestration methods, clean water, urban infrastructure, manage nitrogen cycle, health informatics, reverse engineer the brain, prevent nuclear terror, cyberspace security, enhance virtual reality, personalized learning, create new tools for scientific discovery.

Suggested initiatives to prepare for future changes: Encourage diversity in all areas. Create and expand facilities – offices, classroom space, new labs, and storage areas. Research what is happening at other universities like NYU-Poly, Lehigh to stay competitive. Create an innovation center in downtown Lewisburg for civic engagement and service learning. Focus on more global projects - Peace Corps, Alumni events, International Programs, ENGR 290, outreach programs for HS students. Strengthen global alumni connections.

Achievements supporting the future changes:

Engineering Success Alliance program with Parsons Brinckerhoff. Development of Luce scholars and Posse scholars.

Dean Buffinton asked the Board if all students should take the FE exam and also what the Board recognizes as curriculum weaknesses. He also mentioned integration with Liberal Arts to bring more arts students to engineering. A Business, Government and Society class may be a good way to integrate with engineering curriculum. He plans to send a survey to the board.

Sarah Bell – Career office – will ask for volunteers for next meeting to discuss success as an engineer linked to engineering and a liberal arts education– Diane Hymas and Paul McDonnell did video this weekend

Committee Updates:

- **Nominations** (Brad) -Some member's terms are up and need to fill openings. Those with concluding terms that are able to extend will be asked if they want to continue with another term.
- Working on candidates for Distinguished Engineering Alumni Award.
- Change in Chairs – Stacy Wolin – Off Campus tours, Jeff Hines – On Campus Events.
- **WIE** (Lois) - Incorporate Luce scholars into calling program.
- **On-Campus Events** (Stacy) - successful Bucknell Village at Homecoming, Cocktails and Contraptions – will sponsor again for Reunion; games that we have done in the past - raft race, spaghetti tower, barge float. What do we want to do for next time? Jeff will meet with team to plan June event.
- **Off Campus Events** (Joanne) - McCormick Spice Tour at Hunt Valley – tour is already filled and will do a BEN event happy hour at Hunt Valley for Alumnus in the area.
- Chicago, San Francisco in June; Houston in August or fall. Next year – BEN event on campus or Harrisburg; SWE conference in mid-October.
- Partner with Green Network through Alumni relations.
- **ENG 290** – Lois - 4 of the 12 spots are filled for London 2011, 2012 China, 2013 Argentina.

Engineering Faculty BEAA Involvement, Suzanne Schicktanz

Keith asked the Council of Chairs, but they said they wanted to hear from BEAA. Do we want to have faculty participate in Board Meetings? Stu Thompson (present) thought we could find interest for a faculty liaison from each department. This will enable sharing of more information back and forth and create enhanced faculty interaction. There is concern that if faculty is in the room, students may not be as vocal, and do not want to burden faculty with more events.

Presentation by faculty, like Wendy's, will qualify as contact hour for PE. Jeff Hines asked if it would be possible to ask Board individuals to do presentations. This will need research and planning.

Closing Comments, Suzanne Schicktanz
Meeting was adjourned

**Bucknell Engineering Alumni Association
Board of Directors Meeting Minutes
Saturday, June 4, 2011**

Attendees

Mitch Blumenfeld, Daryl Novak, Brad Mostoller, Mary Spak, Justin Greenly, James Tucker, Jim Geiling, Suzanne Schick Tanz, Stephen Parker, Brian Wojtysiak, Mike Rakszawski, Rob Van Schooneveld, Lance Lauletta, Peter Renzi, Paul McDonnell, Erica Augustenborg, Adam Jacob, Rich McFadden

Faculty/Staff: Sarah Bell, Lois Engle, Keith Buffinton, Sue Lazarski, Xiannong Meng

Welcome and Opening Business, Suzanne Schick Tanz

February Meeting Minutes

- Meeting minutes were approved

Operating Handbook 2011-12

- Proposal to add the SHPE (Society for Hispanic Professional Engineers) to the student board members. Lois presented a proposed change to the bylaws to expand student membership to 12 members (from 11 members previously). They have been active on campus for approximately 2 years.
- Group discussed the proposed amendment – generally everyone felt comfortable adding the new group.
- Rob asked whether all of the groups were still active and sending a member to the board. Engineers without Borders has been inactive as its initial group graduated.
- Proposed change to the amendment – if a society is inactive for some period of time should we consider removing them from the board?
- We decided to leave Engineers without Borders and revisit as it becomes clearer whether the group will re-form on campus.

Annual Report 2010-2011

- Goal is to have the Annual Report completed by the end of June. Committee heads are asked to provide their input to Sue before the end of the meeting or ASAP to complete the report.

BEAA Participation in Engineering Fund Giving

- Office of Annual Giving is very appreciative of our assistance with calling program to engineering graduates. Suzanne is looking to get some information on the results of our calling initiative. Creating a culture at Bucknell where alumni understand that the people who were here before you create the opportunities that students have today.
- Suzanne reminded everyone on the Board to please continue to support the Engineering Fund.

BEAA Senior Student Giving Initiative

- Athletic Department had a campaign this year where senior athletes had 100% participation in the gift drive. Discussed some way to have the BEAA support participation by seniors in the annual giving drive.
- How do we get the students just to participate – they don't have to give \$100 – even giving \$1 works as long as we get participation. Need support of the faculty and student organizations.
- Should we make contact with Geoff Hallett who works in the Development Office supporting the senior gift drive – he has a student committee.
- We will revisit the Fall meeting and try to target an initiative beginning at the Engineers' Week meeting in February.

By-Laws Update, Suzanne Schicktanz

- Group voted to approve the amendment discussed above and include in the next revision of the Operating Handbook to be completed by Homecoming.

Cocktails & Contraptions Preparation, Rob VanSchooneveld for Jeff Hines

Two activities this year:

- Nuts & Bolts
- Spaghetti & gumdrop constructions

BEAA Off-Campus Tours, Suzanne Schicktanz for Stacy Wolin

- McCormick was a fantastic tour – lots of participation
- Stacy is working on visiting some kind of solar facility in New Jersey
- Possibility to do a tour of a concrete facility in Baltimore
- Suzanne would like other suggestions to flow to Stacy – make connections with alumni and continue to send ideas

Nominations Committee Business, Brad Mostoller

- Distinguished Engineering Alumni Award – Brad confirmed that the board has voted to approve the nominee for the 2011 DEAA Award to be given at the Homecoming meeting in the fall.
- Candidates for Board Positions 2011-12 – The following members' terms were renewed:

Mitch Blumenfeld '91	3 rd Term
Jim Geiling '55	3 rd Term
Brad Gething '01	2 nd Term
Diane Hymas '79	2 nd Term
Joanne Janssen '87	3 rd Term
Lance Lauletta '80	2 nd Term
Stacy Wolin '87	3 rd Term
- The following new members were voted on to the Board:

Lisa Domanowski '00	(Mechanical)
Donald Myers '89	(Computer)
Andrew Van Schooneveld '02	(Civil)
Sarah Prendergast '08	(Chemical)
Dan Weimer '10	(Mechanical)
- Committee Assignments for 2011-12 – Brad confirmed the following new committee chairs and distributed committee assignments for the upcoming year:
 - VP Membership:** Darryl Novak
 - Affinity - Off Campus Events Chair:** Stacy Wolin
 - Affinity - On Campus Events Chair:** Jeff Hines

BEN – ENGR290 Pilot in London, Mitch Blumenfeld and Lois

- Mitch and Lois gave an overview of trip to London with the ENGR290 class. Overall the trip was a good success. We will be collecting feedback and providing to the faculty for consideration of participation in future trips. We need to find a way to more constructively engage the alumni in the program.

BEN – ENGR290 in China in 2012, Keith Buffinton and Xiannong Meng

- Next year planning to go to China after several years in Europe, South America last year – have the help of a class of '03 alumnus who runs a supply chain consulting company out of Shanghai – he has a side business of organizing trips for companies and universities to learn about China
- Jie Lin / Margot Vigeant / Xiannong Meng / Keith Buffinton to participate in the program

BEN Planning 2011-12, Lois Engle for Joanne Janssen

- San Francisco & Chicago both scheduled within the next several weeks – attendance looks to be good
- Trying to schedule an event with Collegiate Frangrances founder for some kind of event in Harrisburg or possibly a tour of the production facility in New Jersey
- September 15 – Houston (tentative event)
- London event this past week had approximately 5 alumni attending including Bill Morrow who also attended the dinner cruise with the group earlier in the week

Board Member Recognition

- Suzanne Schick Tanz, Keith Buffinton, and Lois Engle recognized Board members who are completing their service with the BEAA:
- Wende Pogust could not make it today
- Vicki Scholtes also could not make it today due to family commitment
- Rob Van Schooneveld, James Tucker, Erica Augustenborg will be completing their terms with the BEAA

CDC Update - Sarah Bell

- Shared 2010 postgraduate report – 98% response rate, 94% employed and/or in graduate school – up to 98% for engineering – 149 of 152 people employed or in grad school; approx 25-30% in graduate school
- For 2011 graduates statistics look a little better than last year at the same time - ~54% employed and/or in grad school at this point
- Alumni career services – website has been re-done, presenting some more cohesive programs for alumni
- Leveraging LinkedIn more for alumni services
- Status of the office since Laura Denbow has left – Pam Keiser serving as director of career center and associate director alumni relations; She will now be Executive Director of Career Services reporting directly to Scott Rosevaar and will have a Director of Alumni relations as well

Faculty Involvement with BEAA

- Suzanne Schick Tanz, Keith Buffinton, and Lois Engle reviewed past discussion about how to involve the faculty more with the activities of the BEAA.
- How do we take things to the next level in interacting with the faculty?
- Kicking around some ideas on how to help that interface become more effective. Our primary point of contact has been through the February meetings – originally focused on ABET accreditation but have also expanded into more curriculum discussions
- Snap talks – short and focused talks that originated with Pres Bravman’s inauguration – each faculty member was given 6 minutes and then expanded for the Trustees.
- Two ways to adapt this for BEAA – 1) having faculty give Snap talks to the board and 2) having BEAA board members give Snap talks to the board and/or faculty
- Still discussing the inclusion of faculty in the board meetings – talk about research, what is going on in the departments
- Overall the group liked the idea of the Snap talks – will continue working on this and potentially pilot at the fall meeting or in February

College and University Updates, Keith Buffinton

- **Student focus to start – recognition of two students:**
 - **GW Boon**
 - Hometown - Alabama
 - Played in every basketball game since he came here – 126 games
 - Biomedical Engineering major

- Summer research @ Geisinger and then senior design project also with Geisinger
- Wants to go to grad school to study bio mechanics

Oscar Beteta

- Born and raised in Peru, went to HS in Blue Bell, PA
 - Started @ Montgomery CC – came to Bucknell through Jack Kent Cooke program
 - Chemical Engineering major
 - Air Products intern and then hired full time for 3 year rotational program
 - Founder of SHPE
 - Summa Cum Laude graduate
- **Faculty & Staff recognition:**
 - Prince, Vigeant, Nottis have received two awards for recent paper on education research
 - Karen Marosi selected to attend the HERS Institute (Higher Education Resource Services) at Bryn Mawr College – focus on preparing women faculty and administrators for institutional leadership roles
 - Impact! Exploring Innovation – taught by Shooter & Seth Orsborn – outside speakers, etc.
 - Mooney Innovative Design Laboratory is under construction
 - New Engineering Storage Building is almost under construction – get things that are not frequently used moved to an off site facility
 - Class of '15 – 22% acceptance rate (lowest ever), over 2000 applicants, good diversity – 25 total minorities, 16 non-resident aliens, 56 female (32% - highest ever)
 - Campaign has raised \$179 million toward goal of \$400 million
 - 2% reduction in operating budgets for FY11-12 – budget is balanced
 - Fee increase of 3.75% - now \$54,240 to attend Bucknell
 - Compensation increase 2.75%
 - Endowment again approaching \$600 million
 - 5 professors granted tenure and promoted to Assoc Professor
 - Tom Rich (30 years) and Dick McGinnis (41 years) retiring this year
 - 3 faculty members left – Cara Wang to RPI, Shane Marksturm to Google, Kundan Nepal to Univ. St. Thomas

The meeting was adjourned