



**Bucknell Engineering Alumni Association
Annual Report
2009-2010**

TABLE OF CONTENTS

INTRODUCTION 3
PRESIDENT’S MESSAGE 3
DEAN’S MESSAGE 4
COMMITTEE REPORTS/ACCOMPLISHMENTS 5
 Admissions – Shari Aser, Chair 5
 Career Development – Mitch Blumenfeld, Chair 5
 Development – Rob Van Schooneveld, Chair 6
 Membership – Brad Mostoller, Chair 6
 On Campus/Affinity – Stacy Wolin 7
 Outreach/Affinity – Liz Roman, Chair 8
 Off Campus Events Networking – Joanne Janssen, Chair 8
 Planning – Suzanne Schicktanz, Chair 8
ALUMNI AWARDS 9
ANNOUNCEMENTS 10
APPENDIX – BOARD MEETING MINUTES 12
 Meeting Minutes, October 23-24, 2009 12
 Meeting Minutes, February 19-20, 2010..... 15
 Meeting Minutes, June 5, 2010..... 22

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 2009-2010 academic year.

PRESIDENT'S MESSAGE

BEAA President's Report, 2009-2010 - Rob Van Schooneveld '75

June 2010 marked the completion of my three year term as President of the Bucknell Engineering Alumni Association (BEAA). I have had great support throughout my term from a wonderful group of dedicated board members and a very helpful staff from the College of Engineering. As a result, my job had been easy as we were able to continue to fulfill the mission of the BEAA which is to promote the general well being of Bucknell's College of Engineering by encouraging alumni to take an active interest in the affairs of the University.

To accomplish this mission, the BEAA uses a three-pronged attack by involving engineering alumni with the faculty, the students, and other alumni.

The BEAA Board was able to support the faculty by meeting with each department during our February meeting to discuss the engineering curriculum. This was a good opportunity for board members to provide input regarding industry requirements for engineering graduates.

The BEAA Board was able to support the students by sharing their career experiences with the first year students during the Career Connections Event held in the fall, and with upper class students during the Engineering Career Network Event held in February. We also include students from each one of the engineering societies to serve as BEAA board members. This gives the alumni board members a chance to relate better to student issues and concerns, as well as a chance to offer help to the societies.

The BEAA Board was able to support alumni by helping to host the Engineering tent at the Bucknell Village event held during Homecoming and hosting the popular Cocktails and Contraptions event during Reunion weekend for returning alumni and their families.

During the year we hosted Bucknell Engineering Network events in Philadelphia, Boston and Washington, DC. The Washington event focused on Sustainability while the Boston event focused on the Bucknell Suriname project.

This year we welcomed Keith Buffinton as Interim Dean of Engineering. Keith was very engaged with our group and it is apparent the BEAA will continue to receive the enthusiastic support of the College of Engineering. We look forward to working with him and the college in the future.

Best regards,

Rob Van Schooneveld

DEAN'S MESSAGE

Dean's Report, 2009-10 – Keith W. Buffinton Ph.D.

I have thoroughly enjoyed the opportunity to work with the Bucknell Engineering Alumni Association Board in my first year as Interim Dean. I greatly appreciate the support that I have received and the strong leadership provided by Board President Rob Van Schooneveld, not to mention the dedication of the entire Board of Directors. I have been impressed with the wide range of contributions that the Board makes to the College and thank all the members for their many hours of wonderful service.

From my first meeting as Dean with Rob in September of last year through the events of Reunion weekend, I have been very impressed with the many activities in which the Board has participated. These have included:

- Bucknell Engineering Network event in Philadelphia
- Homecoming Celebration including presentation of the Distinguished Engineering Alumni Award to Robert Long (posthumously), Career Connections with ENGR 100 students, engineering research symposium, induction of the junior class into the BEAA, and BEAA fall board meeting
- Bucknell Engineering Network event in Orlando
- Engineer's Week celebration dinner, Career Networking Event, and BEAA spring board meeting
- Bucknell Engineering Network event in Washington
- Bucknell Engineering Network event in Boston
- Orbison Scholarship Presentation, Reunion celebration, BEAA reunion meeting, and Cocktails and Contraptions

In addition, members of the Board have worked tirelessly throughout the year to raise money for the Engineering Fund and to recruit students, particularly female students through the Women in Engineering Admissions Program which yielded a record 28.5% female enrollment in the first-year class.

With the continued support of the BEAA, the future of College of Engineering indeed looks bright. Building projects are underway that include the remodeling of Breakiron 263 and an addition to the rear of Dana. Fundraising for the Engineering Fund continues strong even as the economy recovers from the historic downturn of the last 2 years. Enrollments are also strong and significant programs to enhance diversity have been developed and will be implemented this coming academic year. Moreover, the University has a new president, who happens to be an

engineer, who will bring new energy and ideas to campus to enhance our academic programs, promote Bucknell's reputation, and secure our financial future.

I very much look forward to working with the Board throughout my second year as Dean and to hearing your ideas for building upon the excellent educational programs for which the College of Engineering is deservedly known. Thank you for the opportunity to be part of your efforts.

COMMITTEE REPORTS / ACCOMPLISHMENTS

Admissions – Shari Aser, Chair

For the 2009-2010 academic year, the Women In Engineering Program (WIE) continued to exceed expectations as for the seventh consecutive year. As a result of our continued success many of the admissions initiatives for 2009-2010 are being modeled after WIE, including the Admissions Mentor Program.

With the addition of student members to the BEAA Board of Directors and working with SWE, we held the fourth annual SWE/WIE Networking Event during National Engineers Week. The evening was a huge success and we are already planning new activities. In addition several WIE Volunteers and SWE Members traveled to the National SWE Conference. We are very excited about the success of the WIE program, and we look forward to building on this momentum in the upcoming academic year.

Career Development – Mitchell Blumenfeld, Chair

The BEAA Career Development Committee continued to bring together students and alumni on campus to share career advice and job opportunities. For the fourth consecutive year we hosted the Connections for Engineers event during Homecoming Weekend and continued our very successful Career Networking Event at the end of National Engineers' Week. Participation in both events was very strong and improved over last year.

Our Connections for Engineers event is collaboration with the instructors from the first-year Exploring Engineering course and brings together freshman engineers and alumni. This year 200 students attended the event, an increase of 30% from 2008. Twenty-five alumni met with students in small groups to talk about life at Bucknell, career and academic choices, and future career prospects. 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 is very busy for the College of Engineering and the BEAA has for several years sponsored a highly successful Career Networking Event on Friday afternoon prior to the awards dinner. This year our attendance increased 14% to 247 students, with 26 alumni providing career advice, job opportunities, and networking connections. 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, we will be looking to modify the format

slightly in 2010-2011 by integrating some of the things we have learned from the Connections for Engineers events. A mix of free-standing “booths” in addition to the more intimate small-group conversations will hopefully improve upon an already successful format.

Overall 2009-2010 was a great year for the Committee. We continue to work very well with the Engineering faculty and Career Development Center and look forward to providing additional support in the next academic year.

Development – Robert Van Schooneveld, Chair

The BEAA Development Committee set a goal of 100% participation of the BEAA Board of Directors in annual giving for 2009-2010. *While we did not reach our goal this year with 93% participation, we will work to increase this to 100% in 2010-2011.*

Membership – Bradley Mostoller, Chair

For the term beginning July 1st, 2010, the BEAA Board of Directors had nine open positions for board. 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 beginning July 1, 2010:

Jeffrey Hines '84	2 nd Term continuing through June 2013
Paul McDonnell '80	2 nd Term continuing through June 2013
Brian Wojtysiak '01	2 nd Term continuing through June 2013

The following individuals were nominated and elected to the Board for three-year terms beginning July 1, 2010:

Adam Jacob '03, ME
Richard McFadden '87, EE
Franklin Pancoast '78, CE
Bradford Seamans '83, CE
William Tafuto '88, CE
Henri Weil '66, ChE

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 beginning July 1, 2010:

Justin Greenly '08, ChE
Stephen Parker '08,'09, ME

The committee also nominated candidates for officers for two-year terms. Suzanne Schicktanz was nominated as President; Mitch Blumenfeld was nominated as Secretary. Both were elected and will take office July 1, 2010. It was our honor to nominate George J Pierson ('84) to receive the Distinguished Engineering Alumni Award. The award will be presented during Homecoming Weekend in October.

Affinity On Campus Events – Stacy Wolin, Chair

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 2009, as part of Homecoming Weekend, engineering faculty and the BEAA hosted the engineering tent at the annual Bucknell Village. While the inclement weather moved the event indoors to the Field House, spirits were never dampened among the flower adorned blue and orange tables. Alumni and their families gathered there to reconnect with each other, faculty and friends while participating in fun engineering-related activities sponsored by the BEAA. Lunch 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 2009 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 posthumously to Robert L. Long '58. 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 Rob Van Schooneveld and received a small BEAA gift to serve as a reminder of their affiliation with Bucknell Engineering in their college years and beyond.
- 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 approximately 215 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 and President John Bravman also stopped by to enjoy the event.

Affinity Off Campus Tours – Liz Roman, Chair

In November 2009, the BEAA co-sponsored two off-campus events in Florida. Justin Schwartz '04, Project Engineer at Universal Studios, led alumni and students on a tour of Rip, Ride, Rock-It!, Universal's newest coaster at the time. Mr. Swartz also spoke with students and alumni at a separate Club of Florida networking event, held at Bahama Breeze in Orlando. The off-campus events were planned to coincide with the International Mechanical Engineering Congress, which was attended by 11 Bucknell mechanical engineering students.

Affinity Off Campus Events Networking – Joanne Janssen, Chair

During the past year, the BEAA hosted two Bucknell Engineering Networking (BEN) Events, in Washington DC and in Lewisburg, as well as two Bucknell Engineering Connection (BEC) Events in Boston and in Philadelphia. These events are intended to foster alumni connections with the college, current students and other alumni in an informal setting within a geographic area. The DC Event focused on Green Technology and featured Jeff Erikson '83, VP Client Services, SustainAbility speaking on Green Technology Jobs, Dennis Hawley '72, M'73, Assoc. VP for Facilities talking about Green Initiatives being implemented at Bucknell's Campus, and Tom DiStefano, Prof. of Civil and Environmental Engineering discussing the responsibility of educating our students, developing a new sustainability course and a minor course of study on energy, and the development of an environmental engineering degree program with a focus on sustainability. Both current students and alumni enjoyed the presentation and asked interesting questions.

The Boston Event focused on Service Learning in the college of engineering and so was attended by professors Mike Toole and Jessica Newlin, from the Civil and Environmental Engineering department, as well as Interim Dean Keith Buffington. The Interim Dean attended and gave an overview of what is happening in the College of Engineering. The February event was also well attended and provided a lively conclusion to a day including the Career Networking Event and the College of Engineering's Engineer's Week Dinner. During the February BEN event, Rob van Schooneveld talked about the BEAA and its activities. Finally the Philadelphia event featured a talk by Interim Dean Buffington and was enjoyed by all.

Additionally the BEAA co-sponsored the NYC Consumer Launch with Alumni relations in December. During the coming year, the BEAA is planning to hold a BEN event in the Baltimore/Washington Area, the suburbs of NYC, and Central-Western PA.

Planning Committee – Suzanne Schicktanz, Chair

The BEAA worked with Keith Buffinton, Interim Dean of Engineering this past year and had many accomplishments as they interfaced with the students, faculty and university. Homecoming's Connection for Engineers Event is now an anticipated event as evidenced by first year student's preparation. This event continues to provide value for incoming engineering students.

The BEAA assisted with the annual calling program for the Engineering Fund. The Development Office followed the model of the Engineering Mentoring Program based on its great results accomplished by reaching out to alumni for support.

The BEAA continues to develop in several different areas:

- BEN events across the country were attended by BEAA members who continued to build support between the faculty and the BEAA.
- The BEAA is pursuing the opportunity to support Bucknell's Engineering in the global context by investigating the opportunity to participate during a portion of the EG290 overseas experiences.
- Determine whether certain BEAA events can receive PE credit.

Jim Orbison's years of contribution to Bucknell's College of Engineering was recognized with a scholarship initiated by BEAA's Darryl Novak. The successful campaign resulted in over \$94,000 in scholarship for future Bucknell engineers.

Rob Van Schooneveld completed his term as BEAA president with Suzanne Schicktanz succeeding him. Thanks to Rob for his years of leadership and guidance.

ALUMNI AWARDS

The Bucknell Engineering Alumni Association presented its eighth Distinguished Engineering Alumni Award to Robert L. Long '58 during Homecoming Weekend, 2009, in recognition of his accomplishments, wisdom, gentle professionalism, and dedication to his alma mater.

Robert L. Long attended Bucknell University as a member of the Class of 1958, graduating with the degree of Bachelor of Science in Electrical Engineering. Long continued his studies at Purdue University where he completed the Master of Science and Doctor of Philosophy degrees in Nuclear Engineering in 1959 and 1962.

After graduation Long distinguished himself professionally and provided noteworthy contributions to society through his work as a professor and chair of the Chemical and Nuclear Engineering Department at the University of New Mexico and as a leader within General Public Utilities Services Corporation (GPU) and the President of the American Nuclear Society (ANS). Long's expertise in nuclear engineering led to his active involvement in the recovery that followed the 1979 accident at the Three Mile Island Unit 2 reactor in Harrisburg, Pa.

Long's career began with the U.S. Army as a Reactor Facility Supervisor where he oversaw the design, construction, and start-up of the Fast Burn Reactor Facility at the White Sands Missile Range through 1965. From 1965 through 1978 he continued his career as a faculty member and department chair at the University of New Mexico. Long was not just another professor, but a true educator. He led the first ABET accreditation of the Chemical and Nuclear Engineering undergraduate program at UNM, served as the Reactor Supervisor at the United Kingdom AWRE Variable Intensity Pulsed Experimental Reactor in 1966-1967 and the Associate Reactor Engineer at the Indian Point Nuclear Power Station in New York in 1970-1971. In 1979, Long joined GPU where he served as a member of the TMI-2 Recovery Team; headed the Accident Assessment Documentation Team and supervised the Technical Planning Group; and served as

Vice President and Director of the Nuclear Assurance Division with a significant role in the restart of TMI-1. From 1991 through 1992 Long served as the President of the American Nuclear Society and continued on the Board of Directors through 1994. From 1993 to his retirement in 1997 Long served as the Vice President and Director of the Services Division and then the Vice President and Director of the Nuclear Services Division at GPU. After retirement in 1997 from GPU, Long established his own consulting company, Nuclear Stewardship LLC and served for several months as the Recovery Vice President at the Northeast Nuclear Energy Company. Throughout his career, Long dedicated himself to training the industry, political and community leaders, and the general public on the lessons learned from the TMI-2 accident and the overall importance of nuclear power.

Long received the American Nuclear Society 25th Anniversary Exceptional Member Award in 1980. In 1989, he became a Fellow for the American Nuclear Society. In 1993 Purdue University awarded their Distinguished Engineering Alumnus award to Long.

His distinguished career of teaching and industry experience demonstrated the length and depth of his commitment to the profession and to society. His contributions over more than 30 years were extraordinary.

It is therefore with the highest regard and warmest affection that on October 24, 2009, the Bucknell University College of Engineering and the Bucknell Engineering Alumni Association present to Robert L. Long (posthumously) the Distinguished Engineering Alumni Award.

ANNOUNCEMENTS

Shari Aser '98, Christina Barker '06, Elizabeth Bunker '83, Don Haberstroh '57, George Lavin '80, Aaron Spak '98, Elizabeth Springer '96, Jeff Stoltzfus '06 concluded their terms the end of June 2010.

New and returning officers for the term beginning July 2010 are as follows:

Suzanne Schicktanz '80, President
Joanne Janssen '87, Vice President, Activities
Brad Mostoller '88, Vice President, Nominations & Membership
Mitch Blumenfeld '91, Secretary/Treasurer

New members for the term beginning July 2010 are as follows:

Adam Jacob '03, Richard McFadden '87, S. Franklin Pancoast '78, Bradford Seamans '83, William Tafuto '88, Henri Weil '66

? will remain the Chair of the Admissions Committee.

Brian Wojtysiak '01 will be the Chair of the Career Development Committee.

Bradley Mostoller '88 will remain the Chair of the Membership/Nominations Committee.

Elizabeth Roman '91 will remain the Chair of the Affinity Off Campus Tours Committee.

Mitchell Blumenfeld '91 will be the Chair of the Planning Committee.

Stacy Wolin '87 will remain 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 2010 will be Suzanne Schicktanz '80, Joanne Janssen '87, Bradley Mostoller '88, Elizabeth Roman '91, Mitchell Blumenfeld '91, Brian Wojtysiak '01 and Stacy Wolin '87.

APPENDIX - BOARD MEETING MINUTES

Bucknell Engineering Alumni Association Board of Directors October 25, 2009 Meeting Minutes

Member Participation: Barker, Davis (Beardslee), Blumenfeld, Booth, Geiling, Gething, Haberstroh, Hines, Hymas, Janssen, Lando, Lauletta, Lavin, Mostoller, Novak, Pogust, Roman, Sandri, Schick Tanz, Sholtes, A. Spak, M. Spak, Springer, Stoltzfus, Tucker, Van Schooneveld, Vidoni, Wojtysiak, Wolin.

Student Members: Erica Lange, ACM; Danielle Woodhead, AICHE; Matt McKeehan, ASCE; Dan Weimer, ASME; Allie McKendry, BMES; Emily Terrell, IEEE; Jackie Denning, SWE; Liz Banerjee, EWOB.

Faculty/Staff Participation: Dean Orbison, Engle, Fritzges, Bell, Thiede, Prof. Aburdene, Prof. Csernica, Prof. Evans, Prof. Meng, Prof. Cavanagh, Prof. Buffinton

Guests: Peter Renzi & Mike Rakszawski.

Welcome and Updates – Rob Van Schooneveld, BEAA President

- Rob called meeting to order.
- May 2008 minutes were approved.
- A proposal was made to add a new student member to represent Engineers Without Borders. Rob motioned to change by-laws, motion approved.
- Jim Geiling suggested the BEAA recognize and show our appreciation to faculty and administration for all their hard work and efforts with the ABET accreditation. Dean Orbison noted that the students should be recognized as well. Stacy Wolin will develop ideas and offer suggestions in the future.
- Rob discussed the tight schedule for BEAA. In the past, committees had time during meetings to work; however, there is no longer time in the schedule to do this. Committee chairs need to coordinate their committees on an as needed basis based on the work that needs to be accomplished prior to future meetings. If appropriate, continue conference calls and contact Lois if a conference call needs to be set up. If needed, specific committees can plan to meet prior to BEAA meetings.

Admissions Update - Kurt Thiede, Vice President for Enrollment Management and Dean of Admissions

Bucknell's class of 2012 is a large class of 960 students versus the goal of 925. The model included utilization of a wait list. The applicant pool was very deep with ~8000 applications; however, applications across the country are declining. Some schools have lowered their SAT requirements and others have reduced requirements for financial aid.

The overall Bucknell applicant pool has been transitioning from ~50% acceptance rate to 30% acceptance rate. 10 years ago, Engineering had a 70% acceptance rate and is now only 20%. 96% of applications are electronic. Application fees are ~\$500,000 of revenue for Bucknell. A few supplements were added to the application process sending an early message about fit. Students must be actively engaged in learning. Some applicants say we ask too much but we ask a lot of students once they are here. Kurt visits high schools to cultivate interest in Bucknell. This seems to be growing interest. Recently there was a lot of energy at high schools in the Boston and NYC areas.

The top reason students don't come to Bucknell is cost, academic curriculum, Bucknell's size and setting, and prestige compared to the "best" R1 institutions (so we need to hone this message). Some of the schools we've lost applicants to are Cornell, Hopkins, Penn State, University of MD, Tufts, MIT, and St. Louis. Changes for coming year include adjusting the projection model and adjusting financial aid packages.

Bucknell just received a \$400,000 grant from LUCE organization for Women in Engineering!! The LUCE grant (based on merit) will cause other engineering funds to be released to other areas; however, at the outset those funds will continue to remain in Engineering. Liz Springer offered to assist with the inclusion of financial info for prospective WIE. The WIE work with new students covers an 18 month period and will be expanded to a 2-3 year period. Since the WIE mentoring process has been extremely successful, we would like to expand it to all engineers.

Kurt mentioned the creation of an engineering outreach task force of faculty, students, and alumni. This group could work with high schools and assign mentors to students as they go to college. We could possibly offer modified EG100 programs to high school students (similar to a creative writing workshop). Kurt and his Admissions staff will meet with Jim Orbison and Lois to explore this task force. Rob told Kurt the BEAA and Shari Aser, Chair of the Admissions Committee, will be ready to help when volunteer roles are known.

Off Campus Tours – Liz Roman

Next weekend is the Fahrenheit roller coaster tour at Hershey Park. Attendance is ~20 alumni and we have broken student attendance records! The Engineering Fund is paying for students. Contact Liz and Lois for off-campus tour suggestions. It's best for tours to occur on Saturdays (MWF are next best days).

Off Campus Affinity - Joanne Janssen

- The BEN event held in conjunction with the ASEE conference in Pittsburgh was successful and well attended by faculty, parents, students and alumni.
- A Baltimore Networking Event will be held on November 7th in conjunction with a national SWE meeting.
- ChemE's are hosting a network event on November 16th in Philadelphia.
- A BEN event will be held on-campus in February.
- There "may be" one more event in Boston this spring.

On Campus Events – Stacy Wolin

- Stacy is working on big plans for reunion weekend.
- Homecoming Weekends are fairly well planned so there is little need for modifications.

- This committee will coordinate with SWE for weekends the BEAA is on campus.
- This committee will also develop some sort of recognition for the ABET accreditation.
- There is a celebration on March 21st to recognize 125 years of co-education on campus. We have been asked to support panel discussions on a variety of topics. Please review planned topics and input additional panel topics and email to Lois by Nov 1st. The target audiences for the panels are both students and alumni.

Career Development – Mitch Blumenfeld

The Connections for Engineers event was successful with 34 alumni participating, 160 students and only 9 no shows. This was a good turnout, but 25-30 fewer students than last year. The student evaluations will be returned soon and overall initial comments were good. Please forward feedback regarding the Connections event to Mitch or Lois.

The committee will now start working on Career Networking Event in February.

Closing Comments – Rob Van Schooneveld, BEAA President

- The BEAA would like an update on Bucknell's Master Plan.
- A future action item is to plan an ABET faculty/staff dinner possibly in February.
- Committee conference calls or meetings just prior to our scheduled meetings are up to the committee chair's discretion.
- If BEAA members would like to participate on the Admissions Task Force that Kurt Theide discussed, please get in touch with Lois, Rob, or Brad.
- Thanks as always to Lois and Angi for their help with the weekend's events.
- Also thanks to our guests Kurt Thiede, Mike Rakszawski, Sara Bell, and Peter Renzi.

The meeting was adjourned.

Board of Directors February 20, 2010 Meeting Minutes

Attendees:

Members: Aser, Augustenborg, Barker, Booth, Davis, Geiling, Gething, Haberstroh, Hines, Janssen, Lauletta, Lavin, McDonnell, Mosteller, Novak, Pogust, Rakszawski, Renzi, Roman, Schicktanz, Shafer, Sholtes, Sobeck, A. Spak, M. Spak, Stoltzfus, Tucker, VanSchooneveld, Vidoni, Whiting, Wojtysiak

Student Members: Barnes, Chakladder, Daniels, Dybeck, Frank, Furman, Lange, Okello, Spater, Terrell, Weimer, Kristina (TB Pi), Kelsey,

Faculty/Staff Members: Dean Buffinton, Engle, Lazarski,

Guests: Bell, Thompson, Keiser, Dybeck, Greenley, McFadden,

Rob brought the meeting to order. The October minutes were approved.
The Annual Report/Operating Handbook can be downloaded through BLink (BEAA website).

Computer Engineering Degree Program- Stu Thompson, Assistant Professor of EE

The Computer Engineering program meets a need identified through discussions with students, graduates, and industry. The CE degree is a new program administered by Computer Science Department (3 EE professors and 3 Comp Science professors) consisting of EE and Computer Science classes previously available. Computer Engineering involves the design and construction of computers and computer-based systems and studies the hardware, software, communications and interactions among them. Incoming students are given the option to choose whatever function they wish to pursue (EE, CSE, or CPE), but want each discipline to be 35 students or less to maintain class size standards.

Student Society Updates:

Rushtim Chakladder - BioMed

- Attended the BMES conference in Fall
- Hosted a luncheon to introduce the Freshman Biomedical Engineers
- Have been busy preparing for Engineer's Week

Eric Dybeck (for Ian Hansson) AIChE

- Attended a regional conference (Hampton, VA) and placed 1st in the ChemE car competition and poster competition
- Attended the national conference (Nashville, TN) and placed 1st in the poster competition
- Started a mentor program (Juniors with Freshmen) to assist with questions and issues (something other societies may want to pursue)
- AIChE is planning to attend the regional conference in Baltimore this April

Jenna Frank - ASCE

- Hosted a Fall event at Cowan for new freshman to meet other Bucknell CE's
- Membership drive approaching

- Recently focused on Engineer's week
- Will be attending the national meeting in Harrisburg

Erica Lange - ACM

- Hosted student speakers, alumni speakers, and outside representative speakers
- Placed 3rd locally and 22nd regionally in the ACM Programming Contest
- Participating in the hiring of new faculty
- Invited the BA majors to the Engineering Week dinner
- Sponsored a t-shirt contest

Emily Terrell - IEEE

- Co-sponsored a graduate student lecture with ACM last semester and would like to get alumni to participate in future lectures
- Trying to meet with Penn State IEEE
- Ordering t-shirts
- Creating "lab cheat sheets" to help students navigate through the labs
- Preparing to elect new officers

Daniel Weimer - ASME

- Continued their teacher talk series with a focus on research
- Hosted the 2nd annual volleyball tournament
- 11 students attended the International Conference in Orlando. During the trip they met with Justin Schwartz to tour the new roller coaster in Orlando.
- Held officer elections in January

Lois Engle (for Jackie Denning) - SWE

- Designed t-shirts and learned to keep it simple, but it was a successful event
- Doing outreach to 3rd and 5th graders
- Joined forces with NSBE for an alumni meet and greet
- Hosted study breaks
- Attended the national meeting in Long Beach, CA with 16 students to include dinner with alumni in the area
- Planning for the national meeting will be in Orlando next fall

Winnie Okello - NSBE

- Co-sponsored an alumni meet & greet with Asian Engineering
- 2 members traveled to Canada for their international meeting
- Linking with NSBE organizations at other schools
- Created a buddy system for Freshmen
- Want to create a formal mentorship program for freshmen so searching opportunities to bridge engineers and non-engineers (support a soup kitchen?)

Rob Furman - Chi Epsilon

- Held an initiation ceremony with 16 juniors inducted. James Royer attended and discussed the Global Engineer.
- Held a service event with a local boy scout troop and built popsicle stick bridges and

marshmallow catapults to help scouts get their engineering badge

- Currently working with Habitat for Humanity this semester
- Planning a field trip to NY to walk across the Brooklyn Bridge (maybe have alums join them).

Susan Barnes - Tau Beta Pi

- 50 students signed up for FE review sessions
- Sent 4 students to Penn State to partner with other chapters
- Saturday am work sessions; Rose Holman leading team building, working on people skills, presentation skills, interview skills, and appropriate behavior in the workplace

Bucknell Engineering Network (BEN) Updates - Joanne Janssen and Lois Engle

- Trying to schedule a green technology BEN event in the DC area either April 8th or 15th and would like to find a certified green building for the venue. Speakers will include Jeff Erickson '83 CE, Dennis Holley ME, and Thomas Stefano.
- BEN event scheduled April 22nd in Boston; probably Olin College. The National Academy of Engineers is holding a series of summits there at the same time.
- Potential BEN events are linking with student society events, tour solar power test beds (outside Philadelphia), tour construction of the Twin Towers Memorial, and factory tours.

Committee Updates

Admissions - Shari Aser

- Women in Engineering program targets those interested in engineering, math, and science.
- Due to the Admissions Office staffing and reorganizing, we skipped Phase 1 and Phase 2 is being kicked off. Phase 3 targets regular decision candidates.
- A suggestion was made to identify LUCE (merit-based) scholarship candidates and connect with these women.

Affinity - Off Campus - Liz Roman

- Looking for a connection to someone working on the tunnel for the new metro line to Dulles airport.
- Trying to connect with student organization off-campus tours and with BEN events.
- Work in progress to secure continuing education for PE's to increase attendance at events. It was suggested to schedule continuing education events on Friday morning before the Career Networking Event during Engineer's Week to increase alumni attendance. A request for subcommittee volunteers to help explore continuing education events for PE's will be made.

Nominations - Brad Mosteller

- Please submit nominations (BEAA Board and DEAA) to Brad.
- If your term is ending you will receive an email to see if you are interested in continuing your time on the Board.
- Currently, we have six open positions due to resignations and fulfilled commitments.
- The University Board of Trustees noted engineering participation on their Board is dwindling and they are looking for additional members.

Development Committee - Rob Vanschooneveld

- The Engineering Fund Drive starts mid-March and concludes the end of April. We will be requesting volunteers to contact 5-10 engineers and will use email and snail mail versus myBucknell to contact engineering alums.
- The BEAA has a goal of 100% BEAA participation for the Engineering Fund.

Debriefing - Department Meetings

CE - Helen Whiting

- Course credit conversion was reviewed with an update on program features of the CE curriculum especially with regard to study abroad.
- There are curriculum changes for junior year impacting substantive courses which allow more opportunity for study abroad.
- Proposals were made to add sustainability into curriculums (CE and overall university courses) and incorporation of leadership training.

ChemE - Michelle Davis

- Student chapters have had high attendance at conferences.
- The faculty now has full tenure track positions.
- Research has been done regarding credit hours for class/lab that will also meet ABET requirements. There were several key points:
 - Need a new building in the next expansion phase - specifically for labs
 - Offer ChemE Seminars for extra credit - looking for content and speaker suggestions
 - Senior design projects sponsored by external companies - need more Companies to participate
 - Incorporate software into the curriculum - explored software to be used and investigated new developments in software

Computer Science - Brad Mostoller

- Faculty changes - Professor Mead retired and a phased retirement is in progress
- Alumni speakers have come to classes and discussed real life examples of Computer Science application (creating apps for the iPhone).
- Student and faculty have attended national and international conferences to assist with their research. Students are doing well as they compete in programming and modeling contests.
- Discussed how alums can promote engineering and whether sustainability and mobile computing should be included in courses.

EE - Jeff - Stoltzfus

- Discussed the curriculum regarding concepts that are relevant now and for the future, ways to improve teaching, and how to incorporate things that will benefit students.
- Alums felt technical writing was necessary and should be part of the curriculum.

Mech E - Jim Geiling

- There are now 15 tenure track positions - up from 9 in 2003. Many of the new faculty are female.
- The size of the department was concerning. MechE is accepting more students but needs

to keep class sizes to requirements thus putting a strain on resources (faculty and facilities).

- The curriculum was discussed:
 - Do we need so many Math and Science requirements?
 - Technical writing is needed and should be required for the entire college.
 - Senior Design and lab experiences need to give exposure to industry.
 - Expand more on programs like ILTM.

Alumni Relations/BAA Update - Laura Denbow

The University is in the midst of multiple transitions: Presidential search, Dean for College of Arts & Sciences search, New BU Alumni Board President, and the Vice President for Development and Alumni Relations is leaving.

Feeling that there may be a disconnect between the Board and Bucknell's volunteer organizations, the Board of Trustees will meet more frequently with the Alumni Board who in turn will try to do a better job to meet with all other volunteer organizations and understand their participation, time, and contributions. The intent is to develop a smarter way to organize volunteer meetings and possibly improve overall access to the Board of Trustees. This will allow our volunteers to unite and be recognized.

Career Development Center Updates - Sarah Bell and Pam Keiser

They discussed how engineering students are working with Career Development and compared to Arts & Sciences. 66% of 08-09 engineering students have interactions with Career Development for an average of 4 interactions per student and they communicate via links to event calendars and BLink.

Career Development is working with organizations to have representatives speak to engineering students about technical interviewing.

08-09 internships had 557 new opportunities (118 were engineering). A new program involves 8 universities uniting to form an internship network to provide 72 new internships. Summerbridge is another method to list internships and is posted on the Bridge (465 opportunities).

Career Fairs/Recruiting for the university overall is down from previous years, but the engineering focus remained strong. Nearly half of recruiting organizations were engineering. Students also attended career fairs at other schools (Penn State and Columbia).

Results for 2009 are good; 59% are employed 8-9 months after graduation, 23% are in graduate school and only 5% are still seeking employment.

Career Development is also teaching students how to be responsible on social networking sites and how to utilize LinkedIn.

Engineering in Global & Societal Context – Professor Peter Stryker, Jessica Schlesinger '10, Kenny Min '10, and Jonathan Powanda '11

Students studied sustainability in global perspectives for 3.5 weeks in Oslo and Bergen Norway and Sweden. Highlights included:

- Volvo; lectures and factory tour (robots get parts)
- Renewable energies; floating wind turbines, remotely run hydroelectric plant, nuclear, biofuels (genetic engineering) and osmotic
- Vasa Museum – wooden ship that sunk on her maiden voyage
- Skanska Construction Company using BIM (Building information Models) to build garages that float on piers
- Road safety (infrared sensors to detect road conditions)

- Waste Management (co-gen facilities and biomass incinerator).

The trip was informative for the students and their view of America has changed (energy demand and global responsibility). Possible future international tours are Asia (India and China). Professor contacts created the opportunity for access that might not have otherwise been available.

Suranam Project – Kevin Gilmore, Professor of Civil and Environmental Engineering, Jonathan Campbell-Copp '10, Alesandra Agresti '10, and John Powanda '11

Senior Design CE's formed feasibility study working with an '07 alum and designed a water supply project in a third world area. This taught students many skills: service to society, preparation for global markets, problem based learning, real clients, interaction between faculty, students, and alumni, and dealing with uncertainty. The project involved teamwork and learning a new culture; food, language, clothing, and traditions. They learned to design systems specific to the community and culture so on-site analysis is critical. They are competing for the Bucknell Project for Peace grant.

Global Education for Bucknell Engineering students - Dick McGinnis, Professor of Civil and Environmental Engineering

There are many opportunities for engineering students to gain international insights.

- Semester study abroad (15% participation rate). Most popular locations are Australia and UK.
- ENGR 290 (3 week program). Continue to arrange curriculum to allow more students the opportunity to study abroad (29% eng students participate versus ~50% for the rest of the university).
- ENG 291 - the Global Engineer (3 hours/week in/out of class)
- "Diversity Dinners" with international Engineering Students
- Service Learning Projects - targeted projects in an area like Surinam. Funded by an endowment within the Engineering Department.
- Summer abroad (summer research/courses).

New Directions and College Updates - Dean Buffinton

Students have been involved and engaging with their professional societies. The faculty continues to receive awards and alumni should communicate their accomplishments and awards as well.

It has been a busy time. Some of the efforts the College of Engineering are working on:

- Initiatives to expand on global concepts and the creation of opportunities for students
- Develop solutions for space (short term/long term)
- Outreach - summer engineering camp for pre-college students
- Planning a Career Expo
- The Geisinger link for biomedical engineers
- Continue strong alumni support (maybe have an Alumni Board meeting in Dana)
- IBM Summit – IBM at Bucknell to develop synergies (future careers, new technology for the university, international opportunities, service learning, greening initiatives, ILTM - management issues)
- Conversion to credit hour system in accordance with Pennsylvania mandates
- Search for new Engineering Dean.

The Engineering Fund giving is down slightly and the budget is \$1.5 Million short.

The Academic West building with engineering facilities projected completion by 2015.

Career Networking - Brian Wojtysiak

The Career Networking Committee is evaluating CNN and maybe include additional topics such as technical writing, interviewing, and resume reviews. Also discussed was motivating students to attend, forcing conversations to occur via rotation to different tables, raising student's awareness of what they can learn, tailoring topics to what students can utilize (ie. networking for summer jobs). It might help to define a mission for CNN.

Other Business – Darryl Novak

Darryl is organizing a scholarship drive to recognize Jim Orbison's contribution to the University. Administrative changes in the Development Department has made this effort challenging. The target is \$75,000 and he needs responses by 3/31/10. Please forward the request for contributions to anyone that would be interested in donating.

Closing Business – Rob Van Schooneveld

Rob noted the upcoming BEAA meeting dates:

Reunion - Friday/Saturday June 4/5

Homecoming - Friday/Saturday Oct 29/30

Rob adjourned the meeting.

Bucknell Engineering Alumni Association
Board of Directors
June 5, 2010 Meeting Minutes

Attendees:

Members: Aser, Blumenfeld, Davis, Geiling, Gething, Greenly, Haberstroh, Hines, Hymas, Janssen, Lauletta, Lavin, Mosteller, Novak, Rakszawski, Renzi, Schicktanzt, A. Spak, M. Spak, Stoltzfus, Tucker, VanSchooneveld, Wolin, Whiting, Wojtysiak

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

Guests: Ron Marquette, Steve Parker, Rick Vandenburg

Opening Comments – Rob VanSchooneveld

- The BEAA Operating Handbook is posted on line.
- All committee chairs must submit annual reports by the end of June.
- The February meeting minutes were approved.
- We would like to have 100% participation in the Engineering Fund so please check with Rob or Lois if you are not sure if you contributed for the year.
- Our next meeting is Homecoming weekend, October 29th & 30th. There is a new format with a Volunteer Summit for all the alumni organizations on Friday. Maybe the BEAA meeting can start at 9:00 am so people that live within a few hours can drive to Bucknell early Friday morning. We will still hold the Connections for Engineers event Friday afternoon.

Engineering Fund Calling Program - Ron Marquette

14 BEAA volunteers made personal calls to support the Engineering Fund. Those calls produced \$4500 in pledges and the overall participation rate was 2 points above what was University driven. The goal was \$400,000 and the University just cleared \$403,000. The process was improved by starting earlier this year. It also helps to email the contact first and ask for a convenient time to speak. Further improvements would include a list identifying where the money is spent, examples of scripts for volunteers and include an email webform to help with accounting for calls and results.

Cocktails and Contraptions Event Preparation – Stacy Wolin

The 2 events for Cocktails and Contraptions are Spaghetti Towers and Nuts & Bolts. Stacy reviewed volunteer roles for these events.

Nominations Committee Business – Brad Mostoller

- George Pierson will be the DEAA recipient
- Suzanne Schicktanzt was proposed as the next BEAA president and Mitch Blumenfeld as the BEAA secretary. The proposal was approved.
- Jeff Hines, Paul McDonnell and Brian Wojtysiak are returning to the board.
- There are 6 regular Board positions open. Proposed candidates are: Adam Jacob, Rich McFadden, Frank Pancoast, Brad Seamans, Bill Tafuto, and Hank Weil. All proposed candidates were approved.
- Justin Greenly and Steve Parker were nominated and approved for 0-5 years Board positions.

- Mitch Blumenfeld will be Secretary of the Board so Brian Wojtysiak was appointed chair of the Career Development Committee.

Bucknell Engineering Network (BEN) - Lois Engle and Joanne Janssen

- The BEN event in DC this spring was a success. The focus was sustainability with Jeff Erikson (alum), Tom DiStefano (faculty) and Dennis Hawley (Facilities) speaking.
- The Boston BEN event addressed future challenges facing the world. The Bucknell Suriname project was presented by Mike Toole, Assoc. Professor of Civil Engineering and led by Jessica Newlin, Asst. Professor of Civil Engineering.
- Topics to enhance the Bucknell Engineering Network were brainstormed:
 - Sustainability
 - IBM smarter planet and smarter buildings and Green Commission in NYC area
 - Solar – Rich McFadden’s home in New Jersey
 - Alum in California whose business manufactures a new, more efficient solar panel
 - Christine Flaherty regarding Ground Zero construction
 - Nuclear fuel jobs in Boston area
 - Utilize speakers from Global Engineering course
 - Link with Bucknell Brigade and Engineers Without Borders to join students and faculty overseas (Nicaragua)
 - Green Jobs with Julee Bertsch from Career Services
 - Innovation

Board Member Recognition – Rob Van Schooneveld, Dean Buffinton, and Lois Engle

Members serving their last term were recognized:

Shari Aser, Don Haberstroh, George Lavin, Aaron Spak, Jeff Stoltzfus, Christina Barker, Liz Bunker and Liz Springer.

College and University Updates – Dean Buffinton

The College of Engineering has been busy since the last BEAA meeting.

- Sam Clark wins best student presentation at the Rocky Mountain Engineering Symposium
- Chem E car places 2nd in Regional competition
- Suriname Project received Davis Foundation and Clinton Global Initiative recognition
- The Geo Challenge Team placed 4th in the ASCE games
- Engineering students held “Bridge Day” for Lewisburg’s Kelly Elementary School to create interest in engineering
- Dan Cavanagh and Joe Tranquillo received ASEE awards
- Felipe Perrone, Margot Vigeant, and Tim Raymond are teaching ENGR 290 in Brazil
- The College is mentoring engineering diversity students
- IBM Summit at Bucknell is developing methods to partner (ILTM, Cloud Computing, green initiatives)
- Representatives attended the Grand Challenges Summit and Scholars Workshop which discusses major issues for engineering in the future (energy, water, healthcare)

- There are many opportunities for financial assistance: Luce Fellowships, 7 new merit based scholarships, Posse Foundation, and Community College Scholars Program
- The College has many opportunities for innovation and entrepreneurship such as solutions for short and long term space shortages across the campus
- The budget is balanced and the comprehensive fee is \$52,280 (similar to other schools).
- We are excited about President Bravman from Stanford (he is an engineer and his wife is tenure track engineering at Bucknell)

BEAA President Transition – Dean Buffinton and Lois Engle

Rob VanSchooneveld was given a BIG thank you for all he has done to lead us over the past 3 years and for all his years on the board. The BEAA presidency was handed over to Suzanne Schick Tanz.

Closing – Rob VanSchooneveld

The meeting was adjourned.