



**Bucknell Engineering Alumni Association
Annual Report
2008-2009**

TABLE OF CONTENTS

INTRODUCTION 3
PRESIDENT’S MESSAGE 3
DEAN’S MESSAGE 5
COMMITTEE REPORTS/ACCOMPLISHMENTS 8
 Admissions – Shari Aser, Chair 8
 Career Development – Suzanne Schick Tanz, Chair 8
 Development – Rob VanSchooneveld, Chair 9
 Membership – Brad Mostoller, Chair 9
 Outreach/Affinity – Liz Roman, Chair 10
 Planning – Rob VanSchooneveld, Chair 11
ALUMNI AWARDS 11
ANNOUNCEMENTS 12
APPENDIX – BOARD MEETING MINUTES 13
 Meeting Minutes, October 24-25, 2008 13
 Meeting Minutes, February 20-21, 2009..... 17
 Meeting Minutes, May 30, 2009..... 23

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 2008-2009 academic year.

PRESIDENT'S MESSAGE

By Rob Van Schooneveld '75

BEAA President's Report for 2008-2009

June 2008 marked the completion of my second year as President of the Bucknell Engineering Alumni Association (BEAA). Through the help of our dedicated board members, we were able to successfully fulfill the mission of the BEAA. That mission 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 sitting with them and bringing the board's first hand knowledge and experience of the qualifications required to work in industry as engineering professionals. This also helps the various departments meet their requirements for ABET certification. I am proud to announce the College of Engineering successfully passed their ABET accreditation with flying colors! To show the Board's appreciation, we sent each faculty member a letter of congratulations along with a specially manufactured BEAA paperweight in recognition of their fine work.

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 who 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 alumni help to the societies. In the fall of 2008 we added an 11th student board member from Engineers Without Borders.

The BEAA Board was able to support alumni by helping to host the Engineering table 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. We also co-sponsored a tour of the new Fahrenheit roller coaster at Hershey Park that was well attended by both alumni and students.

This year we hosted Bucknell Engineering Network events in Pittsburgh, Baltimore and Philadelphia. We set the times and locations to coincide with conferences that would be attended

by faculty or students. The Pittsburgh event was tied in with the American Society of Engineering Education, the Baltimore event with the Society of Women Engineers conference and the Philadelphia event with the American Society of Chemical Engineers. These events provided wonderful networking opportunities for students, faculty and alumni.

I would be remiss if I did not mention that Jim Orbison, Dean of Engineering, has decided to step down and return to teaching in the classroom. Jim was instrumental in rekindling the efforts of the BEAA and has been very supportive and encouraging of all of our efforts. Our loss will be the students' gain. We would like to wish Jim well in his return to teaching.

In the meantime, Keith Buffinton has taken over the Jim's role as Interim Dean of Engineering. He looks to be just as supportive of the BEAA and we look forward to working with him.

Best regards,

Rob Van Schooneveld

DEAN'S MESSAGE

By James G. Orbison, '75, Ph.D., P.E.

It has been a pleasure and a privilege to serve with the Bucknell Engineering Alumni Association (BEAA) Board of Directors over the past nine years as dean. Over those years, through the leadership of presidents Bob Burnett, Harry Kitch, and Rob Van Schooneveld and the dedication of the full Board of Directors, the BEAA transformed itself, advancing and enriching the educational experiences of our students in ways both rich and enduring.

The BEAA is indeed making a difference for our students, programs, and engineering alumni in a great many areas, through activities within the ECLIPSE* Program including:

- the February Career Networking event that brings engineering alumni and students together to discuss career opportunities,
- the *Connections for Engineers: Majors and Careers* session within the ENGR 100 Exploring Engineering course that connects engineering alumni with first-year engineering students,
- Bucknell Engineering Network alumni events held at selected locations across the country, and
- The Women in Engineering program that connects prospective women engineering students with women engineering alumnae.

This past year, the engineering degree programs underwent their periodic accreditation review by ABET, Inc., a comprehensive and detailed evaluation of our educational quality as measured through student and alumni achievement of program educational objectives and outcomes, our assessment programs, and our continuous improvement processes. The BEAA Board played a vital role this year in securing the successful outcome of that accreditation review, assisting many of our programs in refining, and assessing alumni achievement of, their program educational objectives.

Also this year, having served as dean of the engineering college for nine years and with the college strong, stable, and our programs freshly accredited, I concluded that it was a good time to return to the faculty, to the classroom, to continue the educational career that I so thoroughly enjoyed for the 18 years preceding my time as dean. As I told the BEAA Board at their spring 2009 meeting, it was a decision made with few regrets, and considerable anticipation for the future. Leaving the BEAA Board of Directors, however, was one of those regrets.

The BEAA Board of Directors has achieved a level of excellence that is real, borne from hard work and selfless commitment. I want to personally thank all members of the Board for their eager efforts and dedication to the College of Engineering and our students. It has been a rare privilege to join the Board in this shared endeavor. The BEAA's commitment to our students and to educational experiences of the highest quality is deeply rooted, and our students and programs will benefit long into the future from the remarkable volunteers who are the Board of Directors of the Bucknell Engineering Alumni Association.

**Enterprising Connections Linking Industry, Programs, Students, and Engineering alumni*

COMMITTEE REPORTS / ACCOMPLISHMENTS

Admissions - Shari Aser, Chair

For the 2008-2009 academic year, the Women In Engineering Program (WIE) continued to exceed expectations as for the sixth consecutive year. As a result of our continued success many of the new admissions initiatives for 2008-2009 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 third 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 – Mitch Blumenfeld, Chair

During the 2008-2009 academic year the BEAA Career Development Committee continued to connect students and alumni through our very successful on-campus events tied to Homecoming and National Engineers' Week. During the fall semester we held the third annual Connection for Engineers event and hosted another successful Engineering Career Networking event during National Engineers' Week in the spring semester.

The Connections for Engineers event followed last year's revised format with students meeting alumni in small groups. This year we had 153 students meeting with 34 alumni. 4 additional BEAA board members assisted with logistics. Alumni had access to students' initial career goals and facilitated open discussions about college life, engineering classes, and career paths. Feedback has continued to be positive and we hope to host another event this upcoming fall.

The Engineering Career Networking event is held every year at the end of National Engineers' Week. Targeted toward juniors seeking internships or those interested in certain industries after graduation, this event is open to all students from first-year through graduate students. Alumni working as engineers but also using their engineering background in medical, legal, sales, and other related professions provide career advice and other coaching to the students. In 2009 we hosted 215 students and 33 alumni at this event. There was representation from a wide range of industries and professions. This annual event continues to be one of our best attended.

The Committee is looking forward to a productive year in 2009-2010, expanding our relationship with the Career Development Center to ensure our events are helping students and our alumni are providing needed support to their efforts on campus.

Development – Rob Van Schooneveld, Chair

The BEAA Development Committee set a goal of 100% participation of the BEAA Board of Directors in annual giving for 2008-2009. *While we did not reach our goal this year with 93% participation, we will work to increase this to 100% in 2009-2010.*

Membership – Brad Mostoller, Chair

The BEAA Nominations and Membership Committee reviewed the list of potential candidates for the BEAA Board of Directors. The following existing members agreed to accept new three-year terms beginning July 1, 2009:

Michelle Davis '03	2 nd Term continuing through June 2012
Paul Booth '92	2 nd Term continuing through June 2012
Brad Mostoller '88	3 rd Term continuing through June 2012
Darryl Novak '63	2 nd Term continuing through June 2012
Liz Roman '91	3 rd Term continuing through June 2012
Mary Spak '01, M'02	3 rd Term continuing through June 2012
Adam Vidoni '04	2 nd Term continuing through June 2012

The Nominations Committee developed a “shortlist” of top candidates for the open positions. Each potential candidate was contacted personally by a committee member to explain the activities of the BEAA and the responsibilities of a Board member. As a result of these contacts, the following individuals were nominated and elected to the Board for three-year terms beginning July 1, 2009:

Peter Renzi '79, ChE
Dave Sobeck '98, CE
Helen Whiting '78, CE

Additionally, there were two positions specifically defined to be filled by alumni graduated within the past five years. The following individuals were nominated and elected to the Board for three-year terms beginning July 1, 2009:

Mike Rakszawski '08, CS
Lauren Shafer '07, BME

In addition, it was our honor to nominate Dr. Robert Long ('58) to receive the Distinguished Engineering Alumni Award. The award will be presented during Homecoming Weekend in October.

Outreach / Affinity – Liz Roman, Chair

The Engineering Alumni Association (BEAA) and the Bucknell Club of Harrisburg PA co-sponsored a behind-the-scenes tour of the Fahrenheit coaster and an afternoon of rides on Saturday, November 1, 2008. Over 45 alumni, students, and friends were guided by

Kent Bachmann, Hershey Park engineer, through the park while learning Hershey Park trivia and future attractions en route to the newest coaster attraction, Fahrenheit. The Fahrenheit coaster is a “vertical lift inverted loop coaster” that ascends 121 feet before plummeting down a 97-degree drop. The tour group enjoyed no lines and could enjoy several back-to-back rides on the Fahrenheit as Hershey Park opened the coaster for our group 30-minutes before the park opened. The alumni, friends, and students confirmed the ride was full of lifts and flips!

Off Campus Events – Networking

During the past year, the BEAA hosted two Bucknell Engineering Networking (BEN) Events, one in November in Baltimore and one on campus during National Engineer’s Week. 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 Baltimore event was held in conjunction with the National Society of Women Engineer’s (SWE) conference and was well attended by both alumni and female engineering students. The 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.

This spring the BEAA adopted the Alumni office’s convention of differentiating off campus events into BEN and Bucknell Engineering Connections (BEC) events, where BEN events are gatherings held to highlight alumni accomplishments or speakers and BEC events are gatherings held to continue close connections with the College of Engineering. During the coming year, the BEAA is planning to hold a BEN event in the Baltimore Washington Area and/or Philadelphia and BEC events in New York and Boston in the coming year. We are also looking into joining with the Development office to hold a gathering focusing on Green Technology.

Planning Committee – Suzanne Schick Tanz, Chair

The BEAA was involved with other campus organizations over the past year and integrated our efforts with several of them. The CDC recognized that the BEAA is unique in that we are an industry/profession group and an academic connection. These are two different avenues to connect with engineering alumni and could lead to opportunities for the BEAA’s continued growth and outreach. In an effort to improve ongoing communications and updates for BEAA members and Engineering alums, a B-Link BEAA Connection is planned. The BEAA has been asked by the Development Office to assist in raising funds targeted specifically for the Engineering Fund. Participation is voluntary and several board members participated. The BEAA continues to provide annual feedback to Engineering Department Heads to assist with current

employment and industry trends. In addition, this year the BEAA was debriefed on the extremely successful ABET accreditation.

ALUMNI AWARDS

The Bucknell Engineering Alumni Association presented its seventh Distinguished Engineering Alumni Award to Edward F. Staiano '58 during Homecoming Weekend, 2008, in recognition of his accomplishments, wisdom, gentle professionalism, and dedication to his alma mater.

Staiano attended Bucknell University as a member of the Class of 1958, graduating with the Bachelor of Science in Mechanical Engineering degree. He continued his studies at Bucknell and completed the Master of Science in Mechanical Engineering degree in 1960. Staiano also earned a Doctor of Philosophy degree in Mechanical Engineering in 1967 at the University of New Mexico.

Since graduation Staiano has distinguished himself professionally and has provided noteworthy contributions to Bucknell University and the College of Engineering through service of more than 10 years as a professor at Bucknell University followed by subsequent service on the Board of Trustees, the Bucknell Engineering Alumni Association, and in numerous other volunteer roles within the University.

His career began as a professor in the College of Engineering at Bucknell University in 1960. During his first year he offered a course in FORTRAN programming for students from Bucknell University, Lycoming College, and Susquehanna University. From 1964 through 1973 Staiano served as director of the Freas-Rooke Computer Center. During his tenure at Bucknell, Staiano founded a chapter of the Association of Computing Machinery and he oversaw the installation of the Xerox mainframe computer which became the University's primary computing platform for a decade. Ahead of his time, Staiano realized the applications for computers in all parts of Bucknell, and was largely responsible for the drive to make the Computer Center a facility of university-wide application.

In 1974, Staiano left Bucknell to begin a career with Motorola where he served as executive vice president, president and general manager until 1996. *The Washington Post* reported that, under Staianos leadership, the cellular division grew to become Motorola's largest business.

In 1996 Staiano joined Iridium LCCC as its director, and from 1997 to 1999 he served as vice chairman of the Board and chief executive officer of Iridium World Communications where he completed the funding to bring Iridium into commercial operation with the deployment of more than 80 satellites placed in orbit with rockets supplied by Russia, China, and the United States. Staiano worked in venture capital through The Sorrento Group, a company he founded in 1999. The Sorrento Group has funded 15 companies including a start-up telephone company in Italy.

The length and depth of Staiano's commitment to Bucknell has been extraordinary through his many service roles at the University. As a member of the Board of Trustees he has served on the Educational Policy, Finance, University Relations, Greek Affairs, Investment and Long-rang Planning committees. In 1999 Staiano received the Achievement in a Chosen Profession award from the Bucknell Alumni Association.

Staiano's accomplishments, service, and dedication to his profession, to society, and to Bucknell University have earned you the respect and gratitude of Bucknell University's engineering alumni.

ANNOUNCEMENTS

Debra Apruzzese '80, Brenda Lando '01, Ray Mrozinski '04, Hank Weil '66, and Kristen Whaley '06 concluded their terms the end of June 2009.

New and returning officers for the term beginning July 2009 are as follows:

Rob Van Schooneveld '75, President
Joanne Janssen '87, Vice President, Activities
Brad Mostoller '88, Vice President, Nominations & Membership
Suzanne Schicktanz '80, Secretary/Treasurer

New members for the term beginning July 2009 are as follows:

Mike Rakszawski '08, Peter Renzi '79, Lauren Shafer '07, David Sobeck '98,
Helen Whiting '78

Shari Aser '98 will remain the Chair of the Admissions Committee.
Mitch Blumenfeld '91 will remain the Chair of the Career Development Committee.
Brad Mostoller '88 will remain the Chair of the Membership/Nominations Committee.
Liz Roman '91 will remain the Chair of the Affinity Committee.
Suzanne Schicktanz '80 will remain the Chair of the Planning Committee.

The Executive Committee of the BEAA effective July 2009 will be
Rob Van Schooneveld '75, Suzanne Schicktanz '80, Joanne Janssen '87,
Brad Mostoller '88, Shari Aser '98, Liz Roman '91, and Mitch Blumenfeld '91.

APPENDIX - BOARD MEETING MINUTES

Bucknell Engineering Alumni Association

Board of Directors

October 25, 2008 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 Rakaszawski, Sara Bell, and Peter Renzi.

The meeting was adjourned.

Bucknell Engineering Alumni Association

Board of Directors

February 20-21, 2009 Meeting Minutes

Member Participation: Aser, Augustenborg, Barker, Blumenfeld, Davis, Geiling, Hines, Hymas, Janssen, Lando, Lauletta, McDonnell, Mostoller, Novak, Pogust, Roman, Schicktanz, Sholtes, A. Spak, M. Spak, Springer, Stoltzfus, Tucker, VanSchooneveld, Vidoni, Whaley, Wolin

Student Member Participation: Banerjee, Denning, Lange, McKeehan, McKendry, Okello, Nguyen, Terrell, Weimer, Woodhead

Faculty/Staff Participation: Dean Orbison, Prof. Aburdene, Sarah Bell, Prof. Buffinton, Prof. Cavanagh, Prof. Csernica, Lois Engle, Prof. Evans, Angela Fritzges, Dennis Hawley, Sam Lundquist, Prof. Meng,

Guests: Jennifer Gibbons, Ben Jarosz, Joseph LaBarca, Mike Rakszawski, Peter Renzi, Dave Sobeck, Susan Vescio Sobina, Stephen Sobina, Chuck Wharton, Helen Whiting

Welcome and Updates – Rob Van Schooneveld, BEAA President

- The meeting was called to order by Rob Van Schooneveld.
- Rob welcomed everybody and then those attending introduced themselves.
- October meeting minutes were reviewed and approved.
- Rob noted the next meeting; May 30th.
- We would like to have 100% participation for the Engineering Fund. You must specify your gifts to the Engineering Fund to ensure your money goes to help the College of Engineering. Jim requested that we not restrict our giving to a specific department.
- The BEAA has been approached by the Development Office to raise funds. Participation is voluntary. If you are interested, contact Rob or Lois (they will meet your personal comfort level). We are in the early stages of the University Capital Campaign.

Department Head Session Debrief

Chemical Engineering - Kristin Whaley

- Class size is stable – applications up
- Graduates: Twenty-one students employed and seven students are attending graduate school
- The department is considering additional courses/concentrations in the Bio/Environmental/Process Engineering areas
- The department sent a survey to 0-10 year post graduates for success stories – found bell curve and every one felt some success
- AIChE is hosting an “Engineering Camp” for local students to instill math and science interest for potential future students

Civil Engineering – Jeff Hines

- Applications at an all time high; SAT’s up; class size = 32
- CE’s had lowest GPA
- Considering splitting into Civil and Environmental disciplines

Computer Science – Brad Mostoller

- There were seven faculty members present; no set agenda
- Meeting focused on ABET recommended response
- Reviewed current industry issues and obstacles (off-shoring) and what is needed; people with business modeling skills

Electrical Engineering – Jeff Stoltzfus

- Survey sent to recent graduates regarding educational objectives with excellent responses - some noted they also need computer engineering degree
- Currently undertaking faculty searches; possibly looking for someone with computer engineering skills
- Senior Engineering Design Projects need industries to partner
- They are forming an Industry Advisory Board to comment on teaching and are looking for BEAA members as well as outside industry assistance

Mechanical Engineering – Christina Barker

- Survey sent to recent graduates regarding department educational objectives.
- Need to verify 0-5 year alumni - will possibly survey at Homecoming
- Highest enrollment in College of Engineering
- 15% of mechanical engineering students are sent abroad which is higher than the national average
- Trying to determine how to attract women to mechanical engineering
- Recruiting for three faculty members, which will bring total mechanical faculty to fourteen
- Working on combustion research lab

Rob asked BEAA members to congratulate student societies for their participation in the ABET accreditation. The Affinity Committee did a great deal of work to create an appropriate BEAA recognition of the faculty for the ABET accreditation. The faculty appreciated this thank you. Adam Vidoni wrote the letter of thanks which the Board signed.

The Career Networking Event went well. Twenty-four alumni (in addition to the Board) returned for the network event.

Student Society Reports

BMES - Allie McKendry

Participated in the Fall BMES Conference in St. Louis. Three students and one faculty member presented their summer research projects. Working on a spring trip. Won 2nd place for Engineer's Week!

AICHE – Danielle Woodhead

Won the Golden Hammer for Engineer's Week! Bucknell AIChE co-hosted November national conference in Philadelphia with 22 student and faculty presenters. Several students received awards. The regional AIChE conference is held April 17-19 at Hampton University (VA). They are planning a possible brewery tour for a spring trip.

CE – Matt McKeehan

Won 3rd place for Engineer's Week. They had a successful trip to Pittsburgh and thanked the alumni that participated in that event. Planning a spring community service event with the Boy Scouts and a Spring Picnic. They need speakers and are looking for alumni volunteers. Dr. Kim's last lecture is posted on the B-Link Civil Engineering Department homepage. An April 25th celebration/retirement party is planned for Dr. Kim.

ACM - Erica Lange

Planning a spring trip to the Spy Museum in DC. A community service event is planned to collect unused/old/broken computer equipment and electronics and recycle them.

ASME – Dan Weimer

Started "Teacher Talks" during lunches so students can become acquainted with professors. Organized a volleyball tournament, sold t-shirts in the fall, and had a large presence on Hershey Park trip. ASME hosted Lance Lauletta and George Lavin as speakers during Homecoming. They are planning a trip to the Philadelphia Auto Show in February and a trip to the Bounce FunPlex is planned. The department is hiring 3 tenure track faculty members and is encouraging student participation in the form of student interviews. They will continue the Teacher Talk series at the University of Maryland in April. Next year they would like to plan a plant/technical trip and are looking for suggestions.

SWE – Jackie Denning

Hosted a student/professor meet and greet. The SWE National Conference in Baltimore was well attended by BU with many students receiving job offers and companies to review. They are holding advisory sessions on engineering disciplines for first-year students and provided holiday babysitting for professors. Hosted a student/alumni meet and greet in the past week. The Regional Conference at Cornell is scheduled over spring break so they expect smaller Bucknell attendance. A community outreach event is planned for elementary school students and SWE is also planning an event for accepted women engineering students. Next year the SWE National Conference will be held in Long Beach, CA!

NSBE – Winnie Okello

This society has low membership, but hopes to increase their numbers soon. There is a national conference scheduled for March. NSBE is looking for suggestions to increase student participation so please provide input.

Campus Master Plan – Dennis Hawley, Associate VP for Facilities

The Facilities Office is an "enclave of engineers" that are engaged with the College of Engineering by participating in engineering projects and by sponsoring internships. They are mostly involved in planning and construction and are working on the university master plan vision for the next 75 years. The last master plan was done in 1932 during the Depression. They engage the entire campus in the plan (faculty, staff, town, students) for the future. Shepley Bulfinch (Boston) is retained to assist with the master plan. They look at land use plans for both immediate and longer term needs and utilize existing space through repurposing. They also review competitor schools and feel there

is enough land to expand and meet university needs over next 75 years. Some of the proposed updates are: academic quad behind library facing Susquehanna (Academic East & West), student housing behind Theta Chi, moving the Bookstore downtown (approved), office space moved into Post Office, a new Conference Center and Welcome Center near Route 15 entrance. Greenways are planned to provide safe transit and maybe connect with rails system (rails to trails). The Power plant is being studied for capacity planning. The current co-generation plant supplies most of our electricity, but we are applying for a grant to determine if the 50 acres behind the university can provide geothermal power. Also reviewing whether 1M gallons of water can be disbursed to Susquehanna each day from water treatment. Master Planning is an ongoing process so there will be many more updates over time.

Campaign Update - Sam Lundquist, VP Development and Alumni Relations
Bucknell's fundraising campaign has great results in spite of the poor economy and is getting national attention. In spite of this, we cannot relax with the \$400M goal. We crossed the \$1M line a few weeks ago and should be building momentum as we enter the private fundraising phase (years 2-3) and will then continue into the public phase (year 5). Fundraising should reach ~50% of goal before taking the campaign public and marketing it. Donors have a 3:4 ratio (prospects vs. actual gifts). We have not had many donors giving in the 6-8 figure range, but we have exceeded goals for the 6 figure level. To raise funds, Development created specific case statements (20-30) which articulate the strategic initiatives of the university and then combine them into the overall plan for the campaign. The university has a Campaign Executive Committee across the US with hubs in Lewisburg and NY. A regional staff of fundraisers has been hired that do not live in Lewisburg (concentrated in NE corridor, but also reach out to SW US and upper Midwest). With an alumni base of 50,000, we should raise ~\$70M per year. So far the negative economy has not affected BU's giving, but the cash receipts are starting to flatten. To date, no one has reneged their pledge commitment. .

Internship Challenge Update - Sarah Bell Associate Director, Alumni & Career Services

Proactive developments – The Internship Challenge is an important strategy to engage employers and allows alumni to give back to the university. Some students are willing to perform unpaid internships. There is an ambitious goal of 500 internships by February 1st with plenty of interest from students. There were 485 students that attended the Internship Fair.

Reactive developments – With the poor economy, alumni and seniors must be engaged in their job search. The economy has created some cancellations and delays in opportunities, so the strategy is to create a safety net through off-campus recruiting. The department is helping students become educated about what they need to do in an economic downturn by providing workshops on job search strategies, teaching, non-profits, and graduate school. A post graduate survey determined responses needed.

Last month, as part of the registration for the 100 Night Celebration, students were given a brief survey with over 600 students responding. The current graduating class breakdown is: 20% waiting to hear from graduate or professional schools, 23% have jobs or have been accepted to graduate school, 45% are actively searching for jobs, and 10% have not started searching. These numbers are not too far off from what we see at the end of April when we normally give the post-grad survey. CDC staff called each one of the students who said they hadn't started searching in order to make them aware of services and how they could be helpful. For those actively job-seeking, programs, opportunities and networking events geared towards their industries of interest will be offered in the remaining months of the semester.

The Externship program, normally offered to sophomores, has been offered also to seniors and would allow them to be involved in two-day shadowing experiences over the winter break. They have been emphasizing students need to be less geographically focused and open to potential opportunities. .

Due to the recession, Alumni Career Services is reaching out to alumni and they are seeing an increase in use. A speed networking event in Philadelphia is planned in March (in conjunction with the Patriot League events).

Career Development Center Updates

Students need to be trained before they are given access to B-Link. All seniors are listed on the on-line directory. Other classes have limited access to directory.

There are various networks on B-Link:

- Industry and Profession Network (follows the Affinity model)
- Bucknell Engineering Network (alumni focused, lists Bucknell Engineering Network (BEN) events)
- Bucknell Engineering Connection (BEC - education focused)
- Academic Connection
- Extracurricular connection

The BEAA is unique in that we are an industry/profession group and an academic connection.

There are two different avenues to connect with engineering alumni who might create opportunities for the BEAA to continue growth and outreach.

Committee Updates

Affinity – On Campus – Stacy Wolin

Completed the faculty recognition for ABET accreditation. It was a team effort! The committee is planning the Cocktails & Contraptions event for the May meeting.

Affinity – Off Campus Networking - Joanne Janssen

Working on BEC (networking) events. Planning an event in Texas for June or in the fall. The committee is developing additional BEC opportunities.

Affinity - Off Campus Tours - Liz Roman

Hosted the Fahrenheit Rollercoaster tour at Hershey Park. She is investigating Universal Studios in Florida and possible campus tours (new pool). The committee is looking for additional tours and opportunities, so please contact Liz if you have ideas or suggestions.

Career Development – Mitch Blumenfeld

CNE was successful with 258 participants (215 students, 33 alums, 10 volunteers). This year we did not have to call to get volunteers! The student numbers were about the same as past years. More details will be available as student's complete post-event survey.

Nominations - Brad Mostoller

The committee received nominations for term/rotations and the distinguished alumni award. More details will be available in next few weeks.

College of Engineering Overview – Dean Orbison

Listed below are companies that are doing adequately with students and the current job market:

- Defense is healthy. Northrop Grumman has a backlog and is diversified. They are looking positive for the next 3-4 years
- Electronics
- Lockheed
- Oil industry (recruiting)
- Computer Science and off-shoring is returning due to communications and logistics issues (good for Computer Science and EE).

Listed below are companies/industries that are doing poorly with students and the current job market:

- Construction (impacting CE's) and the federal stimulus won't help
- Merck Pharmaceuticals is hiring this year and holding steady, but throughout the company 7,200 jobs going/gone (unknown for Chemical Engineers)

Prior to our May meeting, we had two retirements: Prof. Jai Kim (CE) and Prof. Ed Mastascusa (EE).

University applications were down 5-6%. Thus, the deadline was extended for two more weeks. Engineering is up slightly 1-1.5%. The Engineering Open House in fall has made a difference since the undecided applicant pool has declined. Applications for early decision were up 20% this year and Engineering took advantage of this with good quality candidates.

Closing Business – Rob Van Schooneveld

- We are establishing a B-Link BEAA Connection
- Lois and Rob are looking at the BEAA from a historical view
- We will discuss the Distinguished Alumni candidate at the next meeting
- Thanks to committees and all the work everyone is doing between meetings
- The next meeting is May 30th

The four senior students members present for their last BEAA meeting were; Danielle Woodhead, Matt McKeehan, Allie McKendry, and Eric Nguyen. They were recognized with gifts, photos and applause for their time, service and dedication to the board. Many thanks to them!

A big thank you to Lois and Angi for their help with EVERYTHING!

The meeting was adjourned.

Bucknell Engineering Alumni Association

Board of Directors

May 30, 2009 Meeting Minutes

Member Participation: Aser, Augustenborg, Booth, Davis, Geiling, Haberstroh, Hines, Hymas, Janssen, Lando, Lauletta, Mostoller, Novak, Pogust, Schicktanz, Tucker, VanSchooneveld, Vidoni, Wojtysiak, Wolin,

Student Member Participation: Okello

Faculty/Staff Participation: Dean Orbison, Sarah Bell, Lois Engle, Angela Fritzges, Mick Smyer

Guests: Mike Rakszawski, Peter Renzi, Chuck Bolt, Mel Foley, Kurt Krauss

Welcome and Updates – Rob Van Schooneveld, BEAA President

- The meeting was called to order by Rob Van Schooneveld.
- February meeting minutes were reviewed and approved.
- Rob noted the BEAA Operating Handbook will be distributed at the fall meeting. In preparation for this, all Committee Chairs must complete a one or two paragraph overview for the Annual Report. This needs to be forwarded to Angi by July 15th.

- The BEAA attended the Reunion Rally. Ron Billings, ChemE '69 was recognized. After the rally, the BEAA attended the Volunteer Reception at the President's house followed by Cocktails and Contraptions in Dana.
- The fall meeting is during Homecoming Weekend, October 23rd – 24th. The meeting starts at noon on Friday. Next February's meeting is February 19-20, 2010.
- Contributions to the Engineering Fund need to be received by the end of June! The BEAA would like to have 100% participation! The Engineering Fund is carefully spent and gives students a direct benefit. The Engineering Fund supports:
 - Faculty/student travel to technical conferences (many times senior design projects are presented at these conferences)
 - Capital equipment, classroom upgrades, and overall improvements
 - New labs in Breakiron
 - Upgrades to Gardner Lecture Hall
- A suggestion was made to include an article in the Bucknell Engineering newsletter noting how Engineering Fund money is used.
- The Engineering Fund Calling Program is off to a slow start. MyBucknell access has been an issue (the server has been down).

Provost – Mick Smyer

Mick introduced himself and thanked the BEAA for their volunteer efforts. He thanked Jim Orbison for his service as Dean and for making a difference in the College of Engineering (faculty, physical buildings, and research agenda). The University is proud to award Jim the Dean Emeritus Award and Mick noted how much he has relied on Jim's advice and will continue to seek his advice.

Over the last 11 months as Provost, Mick noted the most valuable aspect of Bucknell is pragmatism. Bucknell has always had a practical side and been engaged with the world. One opportunity is for engineers to get more exposure to liberal arts and vice-versa. Students can solve problems and work with varied groups of people. They may find this opportunity post-graduation.

Regarding the timeline for permanently establishing a new Dean of Engineering will take some time. First, Bucknell must appoint a Dean for the College of Arts & Sciences (maybe this summer). A search committee must be elected and Bucknell has also hired an outside consulting firm, Russell Reynolds, to assist with the search. They will be looking both within and outside Bucknell for a new Dean.

Committee Updates

Career Development – Brian Wojtysiak and Sarah Bell

The committee received feedback from the BEAA student board members and from engineering students regarding their job searches. Interviewing workshops were useful, but needed more technical people. Students see that the faculty are the real source of opportunities (for internships and jobs), but we need to ensure the professors are not being overworked to create this opportunity. The BRIDGE program was confusing and

difficult to use. There were not enough job opportunities especially for ChemE's and BioMed's. A suggestion was made to attend the Penn State Job Fair. The faculty Chairs did not have too many concerns when the student information was shared with them. They thought the Penn State Job Fair idea had merit.

Bucknell offers students:

Faculty partnerships, individual assistance, educational programs (career decision making), alumni presentations, and employer activity with internship/externship challenges.

Opportunities include:

Networking events and fairs, BEN events, Affinity events, Columbia Engineering Fair, and Philadelphia engineering interview day.

Future plans include:

Summer professional development, increased outreach with BRIDGE, more programs offered by visiting engineering employers and alumni.

A discussion regarding improvements for the networking events included possibly including mock interviews, reviewing resumes, and offering educational sessions while on campus. We should continue to include student member feedback for continuous improvement.

Cocktails & Contraptions – Stacy Wolin and Angi Fritzges

The event will involve building a structure from spaghetti and gumdrops. The structure must stand for a minimum of 10 seconds and be built on a budget. Volunteers were requested to assist with the Cocktails & Contraptions event hosted by the BEAA.

Nominations – Brad Mostoller

Regular Board position nominees were:

Peter Renzi, Dave Sobeck, and Helen Whiting

0-5 year position nominees were:

Mike Rakszawski and Lauren Shafer

Renewal positions were made to:

Michelle Beardslee-Davis, Paul Booth, Brad Mostoller, Darryl Novak, Liz Roman, Mary Spak, and Adam Vidoni.

The Distinguished Engineering Alumni Award nominee was Dr. Robert Long, EE '58. He received his MS/PhD in Nuclear Engineering from Purdue and helped with the clean up of Three Mile Island.

The BEAA committees have been structured so members are placed across years so it is balanced when members are participating during their reunion years.

Bucknell Engineering Connections (BEC) and Bucknell Engineering Network (BEN) – Joanne Janssen and Lois Engle

BEC has a professional focus and BEN has an academic focus. Currently nothing is on the books for 2009/2010, so we may do something similar to what the Professional Industry did recently using green technology to teleconference to several locations at one

time. We need to find panelists (computer engineering, power plants, Disney, IBM (Smarter Planet), research, conservation, solar fields, CE-buildings, medical). We will need the CDC to help coordinate teleconferencing (which will make the opportunity for all alumni).

As for a local BEN event, the committee is focusing on a NY event. Philadelphia is very interested in hosting another event and DC/Baltimore is another possible location.

Departing Board Members – Rob Van Schooneveld

Rob recognized those members with terms ending June 30, 2009:

Debra Apruzzese, Brenda Lando, Ray Mrozinski, Hank Weil, and Kristen Whaley.

He thanked them for their participation, support and help especially when asked. They have left their mark on the BEAA and helped to make improvements for the Bucknell engineering students. Thanks for their efforts.

Board Brainstorming – Rob Van Schooneveld

The board would like an update regarding the Industry & Profession Network's growth and future plan.

Professor Keith Buffinton, Interim Dean of Engineering, will be addressing us at the fall meeting. The Board is ready to assist with his transition.

Thanks again to Lois and Angi for all their help, coordination and behind the scenes efforts to make our meetings successful!!

The meeting was adjourned.