



**Bucknell Engineering Alumni Association  
Annual Report  
2006-2007**

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## **INTRODUCTION**

Beginning in 2002-2003, the Bucknell Engineering Alumni Association Board of Directors marked the beginning of a new approach to document the accomplishments of the Bucknell Engineering Alumni Association. The Board of Directors assigned this task to the Planning Committee so that the Board, the Association members, the College of Engineering and the University had a synopsis and permanent record of the activities and accomplishments of the Association. The minutes of the meetings of the Board of Directors are attached to provide the details of the Board's actions during the 2006-2007 academic year.

## **PRESIDENT'S MESSAGE**

**By Harry Kitch '71**

This has been another busy and successful year for the BEAA. Our mission is to provide the College with the experience, expertise, and professional contacts from the Bucknell Engineering alumni and the Board of the BEAA to continue to improve the quality education that the Bucknell engineering students receive. This report highlights our key accomplishments.

Two years ago, we added student members to the Board to enhance the BEAA and the College by providing a direct student connection with the alumni. Now, given their good experiences as student members, some of these students are returning after graduation to serve on the Board as alumni members. For the third consecutive year, the Board met with individual departments and both the Board and the departments continue to find these meeting to be very successful. This joint session, which has grown from the original ABET discussion meeting to include varying topics of each department's choosing, will occur once again in February 2008. Our successful work with off-campus events has gained recognition across campus and the BEAA is working with the University and the Bucknell Clubs for future events. The College is preparing a full-color brochure for the BEAA which will highlight the College of Engineering ECLIPSE Program. This will be ready early in fall 2007 for use at the Homecoming Weekend Celebration Dinner.

While our celebration events during Engineers' Week in February have been extremely successful and eagerly anticipated, we will be making some additional changes to improve our support of the College and University. During Homecoming 2007, the BEAA will now host the recognition of the junior class of engineers to welcome them into the BEAA and honor their achievement to this point. This Celebration Dinner on Saturday evening, October 20 will afford an opportunity to properly thank the engineering alumni who contribute (monetarily, with their time, or both) to the College of Engineering through the BEAA. It will also provide more time for alumni and students to interact during the student research symposium.

This annual report will mark the end of my second term as President of the BEAA and ten years on the Board. I am pleased and proud with the great changes and growth that I have had the privilege to be a part of with my colleagues and friends on the Board and in the College and University. I believe that the goal I set out to accomplish four years ago when I became President - to explore ways to further connect the BEAA with: engineering students, the faculty, and Bucknell engineering alumni - have been accomplished but there are still great opportunities ahead for Rob and Suzanne and all the members of the Board. I wish to take this opportunity to offer all my thanks to Dean Jim Orbison, Lois Engle and Angi Fritzges for their friendship and support. Also my thanks to the faculty and staff of the College and to others from many parts of the University for their support in providing me and all the members of the Board the opportunity to give back to Bucknell and the College of Engineering

## DEAN'S MESSAGE

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

This has been another successful year for the College of Engineering, successes wrought by many people contributing diligently and selflessly in advancing and enriching the educational experiences available to our students. Not least among these contributors are the volunteers who make up the Board of Directors of the Bucknell Engineering Alumni Association (BEAA), an organization that is providing increasingly valuable and valued support to this College, our students, and our alumni. Over the past few years, this group has evolved and grown to provide very real assistance to the College, often in ways that can only be provided effectively by external constituents. BEAA initiatives are making a difference in a great many areas, through activities such as the February Career Networking event that brings engineering alumni and students together to discuss career opportunities, and a number of off-campus alumni events that have been opened to student participation when their schedules permit. In addition, the Women in Engineering program that connects prospective women engineering students with women engineering alumnae are enhancing the success of our admissions process with prospective women engineering students. The success of this program, now in its fourth year, is evidenced through increasing numbers of applications for admission from women to the College of Engineering, and increasing numbers of entering women engineering students. The percentage of first-year engineering students who are women has increased from 19% in 2003 to 24% this year, at a time when the percentage of women engineering students is declining and now stands at less than 18%.

This year, several new initiatives were launched by the BEAA, including:

- A formal ceremony inducting the engineering junior class into the BEAA at a new College of Engineering dinner celebration during Homecoming Weekend.
- A new session, *Connections for Engineers: Majors and Careers*, within the ENGR 100 Exploring Engineering course, connecting engineering alumni with first-year engineering students and structured to provide our new students with information directly from engineering alumni regarding the engineering professions, professional life, and professional responsibilities.
- The College of Engineering ECLIPSE (Enterprising Connections Linking Industry, Programs, Students, and Engineering Alumni) Program was unveiled by the BEAA at the Homecoming Weekend dinner. The program includes more than 20 initiatives and activities that provide a range of mechanisms supporting effective collaborations between the BEAA, the College of Engineering, prospective and current students, parents, and our engineering alumni.

All of the Board's efforts, directly and indirectly, enrich the educational and professional development opportunities available to our students. The BEAA continues to make a difference, and a growing difference, in the lives of our students.

In the College of Engineering, four major initiatives were planned, developed, and introduced this year:

- A new revision of the College's strategic educational plan, *The Bucknell Plan for Engineering Education* (BPEE), was developed by the College's Strategic Planning Committee in 2006. The plan is consistent with and supports the university's strategic plan, *The Plan for Bucknell*, and identifies challenges, opportunities, and priorities for the next decade in the College. The BPEE was adopted by the College in December 2006.
- Direct application for admission into the new five-year dual-degree engineering-management program was made available this year. Approximately 70 applications for the program were received, with a target enrollment of 10 students annually. The program is attracting a significant number of very highly qualified applicants, and 15 students will enter that program in the fall.
- A new bachelor of science in computer engineering degree program was developed and adopted by the electrical engineering and computer science departments this year; the program was approved by the university at the April 2007 Board of Trustees meeting. This relatively new engineering discipline has emerged over the past 15 years as an important and valued interdisciplinary engineering field; there are 150 undergraduate computer engineering degree programs in the country, and this new degree program in the College of Engineering will attract a segment of high quality students that we are currently unable to attract. Application for direct admission to the program will be available next year, and the first computer engineering majors will start in the fall of 2008.
- A summer Engineering Institute was introduced this year, a two-week program designed to bring together engineering faculty (and faculty from the College of Arts and Sciences when appropriate) and outside experts to explore and develop educational initiatives that reflect important current and emerging trends in the profession and in engineering education. The institute's focus and its faculty participants are selected through a competitive proposal process designed to ensure that important educational and/or curricular outcomes will result. This year, two institute proposals were selected and funded. The first centers on the development and integration of sustainability concepts into the engineering curricula and through the development of an elective course in sustainability that will be open to students in both colleges. The second institute builds upon the success of the three-week post-spring-semester engineering course that has been conducted recently for Bucknell engineering students, taught by Bucknell engineering faculty, in a foreign country. Offerings of this course for the next five years will be developed in this summer institute, and faculty from the chemical, civil, electrical, and mechanical engineering departments are participating in this programmatic initiative.

Appointments were made in nine tenure-track faculty positions this spring following successful national searches, and six new tenure-track faculty positions were allocated to the College of Engineering this year. Women will occupy 20 percent of the tenure-track engineering faculty positions, a representation that is more than twice the national average.

The Biomedical Engineering Program graduated its inaugural class of 13 bachelor of science degree recipients this spring. The program is enjoying essentially full enrollments under an enrollment limit of 16 students annually, and it continues to be highly selective. This year a professional staff position was awarded to that program, and a search to fill the new Laboratory and Program Assistant position is underway this summer.

At a time when interest in engineering on the part of college-bound high school students is on the decline (the number of first-year engineering students nationwide has decreased each year since 2002), applications to the College of Engineering continue to increase substantially. This past year, 1,925 applications for 185 first-year enrollment positions were received, an increase of 7 percent over the number received last year and 87 percent above the number received in the year 2000. The acceptance rate (the percentage of applicants who are offered admission) has declined from 65 percent in the year 2000 (when 1,032 applications were received) to 33 percent this year. Student quality, as reflected in SAT scores, high school grade point averages, class rank when reported, and extracurricular activities, continues to be very impressive

In sum, this has been a year of progress and success. Our students are most assuredly benefiting from the efforts and generosity of all who have made these advances possible. I want to personally thank all members of the Board of Directors of the Bucknell Engineering Alumni Association for their remarkable efforts, assistance, and selfless dedication to the College of Engineering and our students. I want to make special note of Harry Kitch's highly successful four years as president of the Board of Directors of the BEAA, from July 2003 through June 2007. Under Harry's leadership, the BEAA turned concepts and commitments into realities that demonstrably benefit this College, our students, and their educations. Harry has served on the Board for a decade, including the most recent four years as its president, and has given selflessly of his time and expertise. Harry has now served the maximum contiguous number of years on the Board, and will now have an opportunity to pursue other initiatives and interests. We will miss Harry, and he leaves the Board of Directors of the BEAA with our highest respect and deepest appreciation for his service.

## **COMMITTEE REPORTS / ACCOMPLISHMENTS**

### **Admissions - Shari Aser, Chair**

2006-2007 academic year, was a year of transition for the Admission Volunteer program university wide. There have been many personnel changes in the admissions office and with the addition of an admission volunteer coordinator the entire program is being revamped. The Women In Engineering Program (WIE) continued to exceed expectations for the fourth consecutive year. As a result of our continued success many of the new admissions initiatives for 2007-2008 are being modeled after WIE.

With the addition of student members to the BEAA Board of Directors and working with SWE, we held the first annual SWE/WIE All-nighter during National Engineers Week. This was a networking opportunity for the female engineers and WIE volunteers. The evening was a huge success and we are already planning new activities. 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 – Suzanne Schicktanz, Chair**

The BEAA Career Development Committee continued to build on its past successes. The Career Development Committee worked with the College of Engineering and the CDC to host the annual Engineering Career Networking Event in February. In addition, the first Connections for Engineers session was held over Homecoming weekend.

The Career Networking Event is held every year during National Engineers Week. This past February, 172 engineering student and 53 alumni met for 2 lively hours. This event is targeted for juniors as they prepare for employment, but first-year through graduate students participated. Alumni careers ranged broadly from traditional engineering to legal, medical and other professions. Students get exposure to various career paths, get personal advice about specific industries and start networking with alumni. Alumni and student interest in the Career Networking Event continues to grow making this annual endeavor an important link between the academic and professional worlds.

The first Connections for Engineers event was held in October. This session was held as part of the Exploring Engineering class and was intended to help students decide which engineering discipline they would like to declare by giving them insights about specific disciplines and their corresponding potential career paths. Students attended 2 sessions targeted to a specific engineering discipline and 1 session pertaining to the Career Development Center. Each engineering discipline had a representative panel of alumni which students could poll to further understand that particular discipline. Questions ranged from college life to career choices. Overall, the event was successful and will be held again this Homecoming weekend with modifications learned from this first Connections for Engineers event.

### **Development – Harry Kitch, Chair**

The BEAA Development Committee set a goal of 100% participation of the BEAA Board of Directors in annual giving for 2006-07. *While we did not reach our goal this year with 97% participation, we will work to increase this to 100% in 2007-08.*

### **Nominations & 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 starting July 1, 2007:

Shari Aser '98	3 <sup>rd</sup> Term continuing through June 2010
Elizabeth Bunker '83	2 <sup>nd</sup> Term continuing through June 2010
Susan Darnell '87	3 <sup>rd</sup> Term continuing through June 2010
Don Haberstroh '57	3 <sup>rd</sup> Term continuing through June 2010
George Lavin '80	3 <sup>rd</sup> Term continuing through June 2010
Aaron Spak '98	3 <sup>rd</sup> Term continuing through June 2010
Hank Weil '66	2 <sup>nd</sup> Term continuing through June 2010

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 a three-year term starting July 1, 2007:

Jeff Hines '84, BSCE  
Paul McDonnell '80, BSME  
Brian Wojtysiak '01, BSCM

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 a three-year term starting July 1, 2007:

Christina Barker '06, BSME  
Jeff Stoltzfus '06, BSEE

The following individuals were newly appointed to serve as officers as noted below beginning July 1, 2007:

Rob Van Schooneveld '75	President, 1 <sup>st</sup> – 2 year term
Suzanne Schick Tanz '80	Secretary, 1 <sup>st</sup> – 2 year term
Mitch Blumenfeld '91	Career Development Chair, 1 <sup>st</sup> – 2 year term

In addition, it was our honor to nominate D. Lee Hamilton ('57) to receive the Distinguished Engineering Alumni Award. The award was presented during the February 2007 Engineers Week activities.

### **Outreach / Affinity – Liz Roman, Chair**

The goal of the Affinity Committee is to organize activities and programs to activate engineering alumni and reconnect them with the College and with each other. This goal supports our belief that active and connected alumni are more likely to contribute to the College and the Bucknell community as a whole whether through service, general involvement, or donations. Affinity Committee programs also raise awareness of the BEAA and have generated a higher level of awareness of other College initiatives, such as the ECLIPSE Program.

This year, the Affinity 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, the BEAA hosted the annual Cocktails and Contraptions Homecoming social. This year's event was held in the Dana Engineering lobby and adjacent rooms. Alumni and their families gathered to construct weight-bearing barges from Popsicle sticks, clay, plastic bags and paperclips. There were door prizes and refreshments. The event was a great success with over 115 guests in attendance. Also in October, the BEAA, electrical engineering students, and Central PA Alumni Club gathered at Hershey Park for a behind the scenes tour of the Reese's Extreme Cup Challenge. Following the tour, there was a catered luncheon and participants spent the remainder of the day enjoying the park.

At our February meeting, the BEAA inducted the junior class into the BEAA as part of the Engineering Week dinner. The engineering students were welcomed into the Association by BEAA President Harry Kitch 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 Cocktails and Contraptions social for Reunion Weekend. Once again, the event was held in the Dana Engineering lobby and adjacent rooms. Alumni and their families constructed rafts from the same supplies used at Homecoming and raced the rafts in troughs set up in the Dana hallway. Approximately 453 guests attended the event.

The University's focus on alumni connections has been in a state of transition and will continue to evolve over the next year. The goal of the University is to bring together like-minded students, staff and alumni beyond the boundaries of the University and/or existing Alumni clubs. The BEAA Affinity Committee supports this new initiative and is working with the University's Alumni Relations to develop off-campus events that support the program. Fortunately, the BEAA is well positioned to lead the University, as the types of programs being recommended by Alumni Relations for the University family at large, are the same events that the BEAA has organized for years.

Finally, the Affinity Committee would like to formally recognize and thank Lois and Angi for all the work they do on our behalf. Without them, we would be seriously challenged to accomplish a fraction of our goals. Lois and Angi, Thank you!

### **Planning Committee - Rob Van Schooneveld, Chair**

The BEAA amended the by-Laws by adding 6 voting alumni to the board of directors who have graduated within the last 5 years to serve one 3 year term. This should make the board more responsive to the needs of young alumni as well as to the college by learning from the experiences of the young alumni in graduate school and/or first jobs.

The ECLIPSE Program (Enterprising Connections Linking Industry, Programs, Students and Engineering alumni) was formally unveiled. The program is a way of giving visibility to the 21 programs and events where the College of Engineering, the BEAA, the BAA, the offices of Alumni Relations and Career Development Center work together to support prospective students, current students, parents and employers.

The BEAA decided to reformat future Homecoming meetings by moving the presentation of the DEAA award and the Junior induction to the BEAA to Saturday evening. This will allow the BEAA more time to see the Research Symposium projects and make the induction more special for the students.

### **ALUMNI AWARDS**

The Bucknell Engineering Alumni Association presented its sixth Distinguished Engineering Alumni Award to D. Lee Hamilton '57 during National Engineers Week, 2007, in recognition of his accomplishments, wisdom, gentle professionalism, and dedication to his alma mater.

Since graduation Hamilton distinguished himself in his chosen profession and as a loyal and vital volunteer for Bucknell University and the College of Engineering.

As a commissioned officer, Hamilton served in the U.S. Army Corps of Engineers in Germany from 1957 until 1959. Just prior to active duty with the military, Hamilton's civilian career began with Exxon Corporation in 1957, continuing with that corporation through 1988. From 1959 to 1979 he held many positions, including Products and Planning Manager, Industrial Business; Assistant General Manager, Supply Department; and Regional Manager (Western United States) with Exxon Company, USA. In 1979 he served as the Executive Assistant to the President of Exxon Corporation followed by assignments as Vice President of Supply & Transportation, then Senior Vice President of Exxon International Company; Deputy Manager of Petroleum Products Department of Exxon Corporation; and Vice President (Downstream), Esso Europe. Beginning in 1986, Hamilton held the position of Vice President of Marketing for Exxon International Company until his retirement from Exxon Corporation in 1988. In 1989 he served as Executive Vice President for the OHM Corporation, an environmental services company, until his (second) retirement in 1992.

Since 2003, Hamilton has served as the Executive Director and Chief Operating Officer of the United States Tennis Association, the National Governing Body for professional and recreational tennis in the United States.

Hamilton has served as a member of the Bucknell University Board of Trustees since 1984 and as Chairman of the Board of Trustees from 2001 through 2003. He and his wife, Molly, established in 1995 the Barbara Wolford Wyma Endowed Scholarship in memory of his wife's sister. Hamilton provided major contributions to the Breakiron Engineering Building, the Friends of Gary Sojka for the Athletics & Recreation Center, and the Presidential Endowed Discretionary Fund.

## **ANNOUNCEMENTS**

Harry Kitch '71 and Kristy Schiano '95 concluded their terms the end of June 2007.

New and returning officers for the term beginning July 2007 are as follows:

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

New members for the term beginning July 2007 are as follows:

Christina Barker '06, Jeff Hines '84, Paul McDonnell '80, Jeff Stoltzfus '06, Brian Wojtysiak '01

Rob Van Schooneveld '75, resigned as Planning Committee Chair and Secretary/Treasurer to accept the President position. Suzanne Schicktanz '80 resigned as Chair for the Career Development Committee to accept the Secretary/Treasurer position and the Planning Committee Chair position. Mitch Blumenfeld '91, moved up to Chair for the Career Development Committee.

Shari Aser '98 will remain the Chair of the Admissions Committee.  
Liz Roman '91 will remain the Chair of the Affinity Committee.

The Executive Committee of the BEAA effective July 2007 will be Rob Van Schooneveld '75, Suzanne Schicktanz '80, Susan Darnell '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 6-7, 2006 Meeting Minutes**

Member Participation: Apruzzese, Aser, Beardslee, Blumenfeld, Booth, Geiling, Haberstroh, Janssen, Kitch, Lando, Lavin, Migliosi, Mostoller, Mrozinski, Novak, Roman, Sandri, Schick Tanz, Sholtes, Springer, Van Schooneveld, Vidoni, Wolin

Student Member Participation: Caro, Flynn, Hoffman, MacInnes, Palugod, Parker, Thiel, Tucker, Verderame,

Faculty/Staff Participation: Dean Orbison, Lois Engle, Angela Fritzges, Pam Keiser

Guests: Paul McDonnell, Kealan Benjamin-Wardle

##### **Friday, October 6, 2006**

##### **Harry Kitch- Opening Remarks**

The Meeting was called to order by Harry Kitch, President.

Harry encouraged BEAA members to make greater use of the MyBucknell portal for communications among association members.

##### **By-Laws, Provisional Amendment- Harry Kitch**

The By-Law changes whereby 6 voting alumni who have graduated within the last 5 years shall be elected to the BEAA board of directors passed unanimously.

##### **Nominations & Membership- Brad Mostoller**

Ray Mrozinski, BSEE, 2004 and Kristen Sandri, BSCM, 2006 were approved unanimously to serve as members of the BEAA board of directors.

##### **ECLIPSE Program- Harry Kitch**

Harry introduced the College of Engineering ECLIPSE program. ECLIPSE is an acronym standing for **E**nterprising **C**onnections **L**inking **I**ndustry, **P**rograms, **S**tudents and **E**ngineering alumni. The program is a way of giving visibility to the programs and events the College of Engineering, the BEAA, the BAA, and the offices of Alumni Relations, Admissions, Career Development Center, support for prospective students, current students, parents, and employers.

**College & University Updates- Jim Orbison**

College of Engineering EBI Survey Results

EBI evaluates graduating seniors engineering educational experience. In 2006 satisfaction with access to Bucknell's alumni to cultivate career opportunities rated 5.25, second out of 65 schools participating in the survey. Bucknell ranked in the top 10 for all categories and in the top 10% of career services and job placement.

The U. S. News and World Report now ranks BU 7<sup>th</sup> among engineering colleges not offering PHD degrees.

Three classrooms have been extensively renovated and a major new multipurpose electronic classroom has been funded by a \$250,000 grant from Air Products and Chemicals.

Applications to College of Engineering continue to trend upward.

27% of the engineering students entering in 2006 are women, another trend that continues upward.

The number of permanent women engineering faculty continues to rise. Bucknell has a higher percentage than other universities.

The Strategic Plan is being refined. It is in process of setting priorities while new initiatives are being proposed to the university by 12/15/2006. The College's own educational strategic plan is now being revised and is expected to be adopted by December, 2006.

The BEAA session was adjourned at this point to allow board members to participate in the Connections Event for students enrolled in ENGR 100, the Undergraduate Research Symposium, and the BEAA Junior Induction Celebration and Dinner.

**Saturday, October 7, 2006**

**Opening Remarks- Harry Kitch**

Homecoming next year has been changed to October 19-20, 2007.

The June 3, 2006 Meeting minutes were approved as submitted.

Committee conference calls will be scheduled more regularly and farther in advance.

**Student Society Overviews**

Gavin MacInnes, AICHE- The national conference will be in San Francisco in November. The regional conference will be held at Bucknell in the spring. They will be participating again in the student car competition, lectures and poster sessions.

Katie Hoffman, SWE- The SWE All-Nighter was held the evening of October 7<sup>th</sup>. The national SWE conference was held in Kansas City the week of October 8<sup>th</sup>. They are also planning advisory lunches with upper classmen, faculty dinners, and outreach events to elementary school students, regional conference participation, career panels and hosting speakers.

Alison Flynn, ACM- They are planning outreach programs for freshman, ice cream socials, bar nights with students and faculty, and speaker programs. They are also participating in Geek Week, October 23-28, including the Jeopardy game, movie nights, and a competition against other local universities.

Tom Verderame, Tau Beta Pi- They are planning service projects with the Lewisburg Park Commission, establishing a tutoring program for engineering students, and participating in the national conference in Denver.

Tom Caro, IEEE- They are planning a behind-the-scenes tour of Hershey Park and a session with Professor Wismer, Research Speaker.

Steve Parker, ASME- They are planning trips, speakers, paintball, and sky diving events.

Emily Thiel, BMES- They will be attending the national meeting in Chicago the week of October 8<sup>th</sup>. BU will be participating in the poster presentations and lectures. They are also planning field trips.

Manny Palugod, ASCE- BU chapter hosted the ASCE Central Pennsylvania Section meeting. They will be submitting an entry to the Concrete Canoe Competition, and they are trying to set up a game against the ASME chapter.

James Tucker, NSBE- They will be sponsoring a Stop the Hate Rally, a multi-cultural event, the Multi-Cultural Explosion where groups attend and perform, and the Multi-Cultural Gala which is a formal dance. They will also be attending a regional conference in Pittsburgh in November.

### **Committee Updates**

Shari Aser, Admissions- Shari met with Patti Flannery, Assistant Director of Alumni Admissions Program. Shari said there were positive changes to the Alumni Admissions program. There will be more information sessions, regional events, and they are hoping to get more alumni involvement.

Liz Roman, Affinity Committee- They are working on a trip to the Woodrow Wilson Bridge in Washington, DC, on October 28<sup>th</sup>, a behind-the-scenes tour of Hershey Park, and California events in 2007. They are looking for viable ideas in the Midwest.

Brad Mostoller, Membership and Nominations- The 2007 recipient of the Distinguished Engineering Alumni Award will be attending the February meeting to receive his award. The BEAA board has two young alumni positions that need to be filled.

Suzanne Schicktanz, Career Development- During this session we discussed the new Freshmen event that was held on Friday, Connections for Engineers- Majors and Careers. Suzanne debriefed the BEAA Board Reporters who sat in each session. In general, the sessions were considered helpful and it was agreed that the BEAA should continue to support the event. Many good suggestions and comments were offered that Suzanne will use to help make the event that much better in the 2007.

**Closing Comments- Harry Kitch**

Dinner and Initiation- By holding the initiation to the BEAA in the Fall, we believe it was a little more special for the Junior class. About half of the class attended the initiation and dinner. By sending formal invitations we might be able to get a bigger percentage of juniors attending the dinner.

Research Symposium- The symposium should still be scheduled before the dinner, but we suggest lengthening it to allow more time to visit the exhibits.

Harry thanked Angi and Lois for all of the extra work and long hours to put this meeting together.

Meeting was adjourned.

## **Bucknell Engineering Alumni Association**

### **Board of Directors**

#### **February 23-24, 2007 Meeting Minutes**

Member Participation: Apruzzese, Aser, Beardslee, Darnell, Geiling, Haberstroh, Janssen, Kitch, Lando, Mostoller, Mrozinski, Novak, Pogust, Roman, Sandri, Schick Tanz, Sholtes, A. Spak, M. Spak, Springer, VanSchooneveld, Vidoni, Weil, Wolin

Student Member Participation: Caro, Flynn, Hoffman, MacInnes, Palugod, Parker, Thiel, Tucker

Faculty/Staff Participation: Dean Orbison, Lois Engle, Angela Fritzges, Pam Keiser, Laura Denbow, Kurt Thiede, Patti Flannery

Guests: Diane Hymas, Jeff Stoltzfus, Brian Wojtysiak, Shalanda Turner, Christina Barker, Leonard Bennett, Brad Gething, Erica Augustenborg, Eric Augustyn, Bethany Byron, John Chubb, Eric Fernstrom, Jeff Hines, Jon Husted, Eileen Navarrete, Drew Potts, Luke Stehouwer, Becky Stump, Larry Trout, Scott Weikert, Chuck Wharton

#### **Friday, February 23, 2007**

##### **Opening Remarks & General Business- Harry Kitch, President**

The Meeting was called to order by Harry Kitch.

Harry welcomed everybody and then those attending introduced themselves.

The Society for Women Engineers (SWE) reported on a successful dinner and networking event with alumnae the previous evening.

After lunch, BEAA members divided according to their degree and met with their respective departments.

After the meetings with the degree departments, BEAA members participated in the Career Networking Event held in Larison Hall followed by the College and BEAA dinner. At the dinner D. Lee Hamilton, '57 received the Distinguished Engineering Alumni Award. In addition, the students presented the winning poem and videos from the Engineering Week competition. Students from the Biomedical Engineering department won this year's competition.

**Saturday, February 24, 2007**

**Harry Kitch** announced the presentation of the Distinguished Engineering Alumni Award will be moved to Homecoming weekend along with the Junior induction to BEAA ceremony. This will occur on Saturday afternoon beginning with the Engineering Student Research Symposium followed by dinner.

We are going to drop the Cocktails and Contraptions event held during Homecoming Weekend and host it only on Reunion Weekend. The event has been better attended during previous Reunion Weekends.

The next Distinguished Engineering Alumni Award will be awarded in the fall of 2008 during Homecoming Weekend.

**Membership & Nominations- Brad Mostoller, Vice President, Membership**

The committee nominated Rob Van Schooneveld and Suzanne Schicktz for President and Secretary, respectively. The full board endorsed this nomination by electing them to a 2-year term per the By-laws.

**Admissions Updates- Kurt Thiede, VP for Enrollment Management and Dean of Admissions; Patti Flannery, Assistant Director for Alumni Admissions Programs**

Bucknell received 8937 applications, a little lower than last year. The expected acceptance rate is 27-30%.

The competitive environment for new students is changing. Bucknell is facing a high level of competition with other universities. In the next six years, the number of students applying to colleges is going to drop. A higher number of Hispanic students will start applying, students that Bucknell does not naturally attract. Rural high priced liberal arts/professional schools are most vulnerable to this anticipated drop in applicants.

The Admissions department needs to change their approach for attracting new applicants. They need to identify students at an earlier time and cultivate their interest. Potential engineering students need to be cultivated in the high schools. Worthy community college students need to be identified and the process for students to transfer to Bucknell must be made easier.

Modifications to the Admissions Program will include:

- Earlier Intervention- Get into the communities earlier.
- Relation-Based Marketing- Identify interested prospects earlier.
- Theme-Based Marketing- Biology majors need to be recruited differently than Engineering majors who need to be recruited differently than English majors.
- Alumni Network - For example, Northrop Grumman identifies 9<sup>th</sup> graders with strong aptitudes in Math and Science. Bucknell has entry into this program.
- Spring 2007 "Bucknell 101" Programs - Regional programs aimed at juniors and their parents

- College Fairs (Spring and Fall)
- Fall 2007 “College 101” Programs- College search assistance held regionally in homes
- Spring 2008 Yield Programs- Open house held on campus and regionally
- Alumni “Buddy” Program- Class of 2012- Women in Engineering is an example

**Alumni Relations Updates- Laura Denbow, Executive Director, Alumni Relations and Career Services**

Laura introduced a proposed program to attract alumni interest with Bucknell. Rather than segregating alumni by the year of graduation, Laura suggested it would be better to form university “communities” based on interest groups. Examples of these interest groups that already exist are the Bison Club for athletes, the BEAA for engineering alumni, and the Greek system. There are many other communities that can be established based on student clubs, organizations, and degree major affiliations while at Bucknell. Laura would like to use these affiliations to build relationships between Bucknell and its alumni.

**College Updates- Jim Orbison, Dean of Engineering**

A 10-month College strategic planning process has been completed where 13 high priority initiatives have been submitted. A new revision of the Bucknell Plan for Engineering Education was adopted December 1, 2006.

New programs include a 5-year engineering-management degree program and a proposed B.S. in Computer Engineering for students starting in fall, 2008. The program will be 50% hardware and 50% software in content. Courses will be 50% computer science and 50% electrical engineering.

Because of contributions to the Engineering Fund there is increased support for student travel to conferences and competitions.

Applications for admission to the College of Engineering increased by 6% this year. 23% of the applicants were women. The college expects the enrolling class to be 28% as compared to national average of 17.5%. National statistics in both engineering enrollments and women engineering enrollments have declined since 2002.

The ECLIPSE (Enterprising connections linking industry, programs, students, and engineering alumni) program has been formalized with the BEAA. Currently there are 21 programs, events and activities connecting alumni with students and the College.

**Committee Updates**

**Admissions- Lois Engle for Shari Aser, Chair**

The Women in Engineering (WIE) program is setting the standards for other mentoring programs. Ten alumnae and 35 students attended the WIE event held on Thursday evening.

**Affinity- Liz Roman, Chair**

Affinity is currently working on a tour with SWE to the Saturn plant in Wilmington, DE and exploring tours in California.

**Career Development- Suzanne Schicktanz, Chair**

The Career Networking Event was a success. It was easy to get participants this year. 57 alumni helped. It was good work on everybody's part. Fewer students participated this year, only 170.

**Membership and Nominations- Brad Mostoller, Chair**

There are two openings in the young alumni group, those who have graduated in the last five years. With Suzanne Schicktanz moving into the Secretary's position, there is an opening for the Chair of Career Development.

There is a potential requirement for four new board members assuming 3 to 4 current members agree to renew their membership.

**Closing- Harry Kitch**

The BEAA agreed to back Laura Denbow's plan for communities. The Affinity Committee will act as clearing house to come up with a pilot plan from the engineering group.

## **Bucknell Engineering Alumni Association**

### **Board of Directors**

#### **June 2, 2007 Meeting Minutes**

Member Participation: Aser, Blumenfeld, Booth, Darnell, Geiling, Haberstroh, Janssen, Kitch, Lavin, Mostoller, Novak, Pogust, Roman, Sandri, Schick Tanz, A. Spak, M. Spak, Springer, Van Schooneveld, Weil, Wolin

Faculty/Staff Participation: Dean Orbison, Engle, Keiser, Fritzges

Guests: Bob Burnett, Jeff Hines, Paul McDonnell, Brian Wojtysiak

#### **Welcome and Updates- Harry Kitch, President of BEAA**

Harry called meeting to order. He introduced new nominees to the Board of Directors, Paul McDonnell, Jeff Hines and Brian Wojtysiak.

Harry gave a little history on the evolution of the BEAA in his 10 years of service.

The minutes from the February meeting were approved as submitted.

Bucknell Giving program ends on June 30. Harry strongly encouraged 100% participation to the Engineering Fund.

The Planning Committee will be working on the annual Operating Handbook this summer. Committee reports for the annual report are due by the end of June.

Harry reviewed the activities and new initiatives of the last year. One of our important goals has been to increase the connection between the college faculty and students:

In July 2005, we added student members to the board of directors.

We have met with individual departments for three consecutive years and plan to do so again in February 2008.

Lois Engle is working on a full-color brochure for the BEAA that will highlight the Engineering College's ECLIPSE program.

Our successful work with off-campus events has gained recognition across campus.

The BEAA is starting to team up with the local alumni clubs in an effort to meet the objectives of the new Affinity model.

Where do we go from here in 2007-2008?

It is important to continue the connection with the college and the alumni.

We must maintain and enhance off-campus tours in support of the new Affinity model and club restructuring initiative.

We must continue to grow in ways that will support engineering students and faculty.

We will be changing the Homecoming meeting agenda to allow the BEAA & alumni guests to spend more time with the Engineering Student Research Symposium. The highlight will be the student dinner where we welcome the junior class to the association. The dinner will now be moved to Saturday evening.

**Update on Alumni Relations New Affinity Model, Lois Engle, Volunteer Manager**

Lois reviewed the new university affinity model that was presented to the BEAA at the February meeting by Laura Denbow and then in April to the Bucknell Board of Trustees. The Engineering College's ECLIPSE program was highlighted in the presentation including many activities that BEAA is already doing such as the active online presence, off-campus activities, and on-campus activities. Other examples of how the BEAA is already fitting the New Affinity Model occur during our Homecoming Celebration Event including:

- Exposure of alumni and volunteers to the Engineering Student Research Symposium
- Presentation of the Distinguished Engineering Alumni Award
- Recognition of Engineering Fund contributors and engineering volunteers
- Induction of the Engineering Junior Class to the BEAA

The BEAA will reorganize the schedule for the Homecoming 2007 meeting to enhance all of these activities. In 2008 the awarding of the Distinguished Engineering Alumni Award will be moved from the February meeting to the Homecoming meeting in order to enhance the student Engineering Week Celebration Dinner.

The College of Engineering is developing a full-color brochure to describing the 21 activities and events of the ECLIPSE program. This will be distributed to prospective students, current engineering students, their parents, engineering alumni, Bucknell Office of Development and Alumni Relations, the alumni clubs, Bucknell's on and off campus communities.

BEAA engages in many on-campus events in areas such as: Affinity (Cocktails and Contraptions); Career Development (Engineering Career Networking Event); Women in Engineering (SWE-WIE All-Nighter).

BEAA will support the new Alumni Club initiative and have assigned the following liaisons:

Liz Roman- Home Club  
Daryl Novak- New York City Club  
Joanne Janssen- Washington D. C. Club  
Rob Van Schooneveld- Philadelphia Club

**Nominations Committee Business and Updates, Brad Mostoller, Chair**

Jeff Hines '84 BSCE, Paul McDonnell '80 BSME and Brian Wojtysiak '01 BSCM were unanimously approved to join the Board of Directors to serve a three-year term effective July 1, 2007.

Christina Barker '06 BSME and Jeff Stoltzfus '06 BSEE were unanimously approved to join the Board of Directors as Young Alumni members (0 to 5 Years since graduating) to serve one three-year term effective July 1, 2007.

The following current board members were approved to serve an additional three year term:

Beginning Term 3: Shari Aser, Susan Darnell, Don Haberstroh, George Lavin and Aaron Spak

Beginning Term 2: Elizabeth Bunker and Hank Weil

With Suzanne Schicktz moving to the Secretary position, Mitch is appointed to Career Development Chair.

**Admissions Committee Updates, Shari Aser, Chair**

Committee is in limbo because the Admissions Department is being revamped. The Department is doing away with alumni interviewing.

For those alumni who want to serve as a volunteer for the Office of Admissions, they can serve as event hosts where they attend an event, greet and mingle with guests, answer questions and possibly serve on a Q and A panel. Some of these events and roles are BU 101 programs, counselor breakfasts, Yield Program, cultivation receptions, Bison Gatherings, college fairs, and alumni Bison Buddy program.

**Affinity Committee Updates, Liz Roman, Chair**

BEAA will be hosting the Cocktails and Contraptions Event this afternoon for all alumni and their families. This year's project will be the sailboat race.

In conjunction with the Philadelphia Bucknell Club the committee has scheduled a tour of the Saturn Plant in Wilmington, DE for September 28, 2007.

The committee is trying to schedule a tour of the Harley-Davidson Plant in conjunction with the Harrisburg Club to take place in October or November of 2007 or the spring of 2008.

The Affinity Committee is working on additional events in other parts of the country in an effort to reach alumni in those areas.

**Career Development Committee Updates, Suzanne Schicktanz, Chair**

The committee is working on the Connections for Engineers event for the Fall. Margot Vigeant will be taking over Engineering 100 course. She will be reviewing student surveys from last year's pilot event to make adjustments to the fall event.

Pam Keiser of the CDC reported 100 of 145 graduating engineers are already placed with jobs or graduate school with another 35 waiting to hear from graduate school.

**University and College Updates, Jim Orbison, Dean of the College of Engineering**

Harry expressed his appreciation to Lois, Angi, and Jim for their assistance with his administration.

**New Degree Programs:**

The new B.S. in Biomedical Engineering graduated its first class of 13 this spring. The new M.S. in Environmental Engineering graduated 4 students this spring. The five-year dual-degree program resulting in a B.S. in Engineering and Bachelor of Management degree started in the fall of 2006 with 15 students. The B.S. in Computer Engineering has been approved and will start in fall of 2008. This new program requires 6.5 computer science courses and 7.5 electrical engineering courses, all existing courses. The college added one senior design course to support this new degree program.

**Engineering Admissions Applications:**

Applications have increased by 87% since 2000. Nationally, first year enrollments have been declining since 2002. Applications increased by 7% this year. 24% of our engineering students are women as opposed to 17.5% nationally.

**Engineering Faculty, Tenure Track:**

Six additional faculty positions have been added for the 2007-2008 academic year bringing the total to 56. Nine new members of the faculty were hired beginning fall 2007. Bucknell, with 20% of its faculty women, has one of the highest percentages of women engineering faculty in the country.

**Temporary Engineering Faculty:**

Nationwide, only 36% of the faculty members are in full-time tenure-track positions. Bucknell has deliberately reduced temporary faculty needs in the College of Engineering over the past 5 years to where it currently stands at approximately 5%.

**Engineering Summer Institutes 2007**

Faculty Institutes funded by the Engineering Fund were *Sustainability in Building Design, Construction, and Operation* lead by Tom Rich, Steve Buonopane and Peter Stryker and *Engineering in a Global and Societal Context* lead by Dick McGinnis and Jeff Evans.

2007 U. S. New & World Report

Bucknell's Engineering College is now ranked 7<sup>th</sup> in the nation among the 172 engineering colleges not offering Ph.D. degrees.

Tenure and Promotion Decisions

Dave Kelley has been tenured and promoted to Associate Professor.

Chuck Knisely and Steve Shooter have been promoted to Professor.

Jim Baish has been appointed Presidential Professor.

**Closing Comments, Harry Kitch**

Meeting adjourned.