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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 2005-2006 academic year.

PRESIDENT’S MESSAGE

BEAA President’s Report, 2005-2006 - Harry Kitch ’71

The Bucknell Engineering alumni, through the BEAA and individually, bring a tremendous wealth of experience, expertise, and professional contacts to the College. Our goal is to provide this resource to the College to continue to improve the quality education that the Bucknell engineering students receive.

The BEAA and the Board of Directors have continued to grow and provide support to the College of Engineering and the Bucknell engineering students. I am highlighting some of our key accomplishments, but please read the Committee reports for the full story.

We continue to bring new members to the Board for the full 30 members allowed by the By-laws, and we have several excited, enthusiastic alumni ready to fill vacancies as they become available. We had two members, Chuck Wharton and Larry Brunt, leave the Board after serving their terms. We had a full year with our student Board members and their contributions are already being felt. Based upon their suggestions, the Board approved provisional changes to the By-laws to include six additional board members that are recent graduates to bring that point of view to the Board. We hope to add the first two this fall.

The Board meeting themes and schedules will also be changing in the coming year to better support the College and the students. Our fall meeting will focus on a career event for the first year students while our successful February networking event will continue as part of the Engineers Week celebrations. We will move the junior class induction into the BEAA Homecoming meeting.

We have continued our tradition of celebrating National Engineers Week with the College by awarding our Distinguished Engineering Alumni Award to Richard Newman ’56. The College and the BEAA are becoming a key part of the University’s off-campus alumni activities by co-sponsoring several trips with Bucknell Clubs. We have hope that this will become even more successful in the years to come.

In closing, we must acknowledge the support that the Board receives from Dean Jim Orbison, Lois Engle and Angi Fritzges, the engineering faculty, and the staff from many other parts of the University. Their help has enabled the Board to function smoothly and allows us to give back to Bucknell. Bucknell Engineering continues to lead in engineering education by attracting the highest caliber students, faculty that are dedicated to teaching, and by continually improving its facilities. The remainder of this report provides a complete picture of the BEAA’s activities in support of Bucknell and the College of Engineering during 2005-06.
DEAN’S MESSAGE

Dean’s Report, 2005-06 - James G. Orbison ’75, Ph.D., P.E.

This has been a year of great progress for the College of Engineering, progress founded upon a clear understanding of our mission and strengths, a commitment to achieve the former and build upon the latter, and a dedication to refine our work objectively and creatively. These successes reflect the patience, diligence, and selflessness of many people, working both individually and collectively. 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 provides increasingly important 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, and 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 alumae appears to be enhancing the success of our admissions process with prospective women engineering students. The success of this program, now in its third 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 27% this year (2006). This past year, student representatives from the 10 engineering society student chapters in the College joined the BEAA Board of Directors, enhancing direct communications between our alumni and students and effectively providing student perspectives to the other Board members. 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 in the lives of our students.

A new institutional strategic plan, The Plan for Bucknell, was crafted, endorsed by the university community, and adopted by the Board of Trustees in April of this year. At the same time and consistent with the institutional plan, the College of Engineering engaged in a long-range educational planning process, looking ahead a decade or more, to define initiatives and improvements that will further strengthen our educational programs and ensure they remain fundamentally sound and relevant in a rapidly-changing world. With participation and guidance from the BEAA Board of Directors, more than two dozen new initiatives were identified through that process, and these will be further defined and subsequently prioritized in the coming academic year.

Additional construction projects are underway in the College of Engineering. A generous $250,000 grant from Air Products and Chemicals is permitting the extensive renovation and refitting this summer of four of the classrooms in the Dana Engineering Building. As part of this project a new, multifunctional electronic classroom is being created that will seat 49 students; this will replace the original electronic classroom constructed in the early 1990’s and limited to a seating capacity of 14 students.

Appointments were made in three tenure-track faculty positions this spring following successful national searches. I am pleased to report that women will occupy 22 percent of the tenure-track faculty positions in the College of Engineering, a representation that is more than twice the national average. This past year, our college was ranked 17th of 307 engineering colleges nationwide in the percentage of women faculty members, and that rank is expected to improve next year.

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, and is now 7 percent below the 2002 level), applications to the College of Engineering are increasing substantially. This past year, 1,802 applications for 175 first-year enrollment positions were received, an increase of 10 percent over the number received last year and 75 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 35 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 November, 2005, the University Board of Trustees authorized the offering of a joint five-year degree program that will lead to an uncompromised Bachelor of Science degree in any one of the engineering programs and a newly-defined bachelor of management for engineers degree. Admission by application was offered this winter to current first-year engineering students, and 18 applications were received. Enrollment is initially limited to 10 students annually, and high school seniors will be able to apply for admission directly to the program beginning next year. Reaction to the program, from prospective students, alumni, and employers, has been very favorable, and we will be seeking an increase in the enrollment capacity to better accommodate the anticipated demand.

During the year, two of our engineering faculty received special national recognition. Ron Ziemian, Professor of Civil and Environmental Engineering, received the 2006 Special Achievement Award from the American Institute of Steel Construction, and Aarne Vesilind, Professor of Civil and Environmental Engineering, received the 2005 Award for Achievement in Environmental Engineering Education from the Environmental and Water Resources Institute of the American Society of Civil Engineers. In addition, Dan Cavanagh, Associate Professor of Biomedical and Chemical Engineering and Director of the Biomedical Engineering Program, received the Lindback Award for Distinguished Teaching from Bucknell University.

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.

COMMITTEE REPORTS / ACCOMPLISHMENTS

Admissions - Shari Aser ’98, Chair

The Women In Engineering Program (WIE) continues to exceed expectations as for the third consecutive year the number of incoming Female Engineers has grown. The primary goals of this program are: recruiting prospective female engineering students, increasing our yield of female students within the college, and increasing the retention of these students.

To reach our goals, we established a multi-staged process as follows:

- **Stage One:** Inquiry phase - a communiqué from the Associate Dean of Engineering to all women who have expressed an interest in engineering.
- **Stage Two:** Application phase - matching engineering alumnae volunteers with female applicants who have indicated a specific Engineering major or Engineering Undecided” on the application.
- **Stage Three:** Accepted Student Calling Program - we asked our alumnae volunteers to continue their contacts with those prospective females that were accepted to Bucknell to encourage them to attend Bucknell.

We asked each mentor to stay in contact with the student through their first semester at Bucknell. Our expectation is that this will strengthen the retention rate of female engineering students.

The preliminary numbers for the Class of 2010 at the College level are: 1,800 applications were processed and 634 offers of admission were extended for an acceptance rate of 35.2%.

Below is preliminary data for the third year of the WIE program:
339 Women applied regular decision to engineering (up from 322 last year)
339 Women were contacted by a WIE volunteer (262 contacted last year)
163 (or 48%) Women accepted to engineering (up from 147 last year or 45% percent)
50 Women enrolled (up from 42 last year for a 16% increase)

The Admissions Committee is in the process of working with the BEAA student members to identify new opportunities. 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 ’80, Chair

The BEAA Career Development Committee had a busy and productive year. The committee worked in conjunction with the College of Engineering and the Career Development Center to once again sponsor the annual Engineering Career Networking Event and to develop new career programs for our engineering students.

The annual Career Networking Event held on campus each year during National Engineers Week, promoted the interaction of 215 engineering students with 50 alumni whose careers range from the traditional engineering disciplines to the legal, financial, medical, and other professions. This event gives all students, from first year through graduate students, the opportunity to learn from the experiences of our alumni. Students can broaden their exposure to numerous possible career paths, get advice about industry trends, and start networks with alumni. The student and alumni interest in the Engineering Career Networking Event continues to grow. This event is another important link between the academic and professional worlds.

A new event is being planned for Homecoming Weekend. This event, “Connections for Engineers”, is targeted for first and second year engineering students. The format will be several short sessions representing the engineering disciplines held in a classroom setting. Recent alumni will lead the discussion with a BEAA student board member and faculty participating. The engineering students will receive an overview of what they are currently doing and the decisions they made to choose their discipline. The intent is to raise student’s awareness of how a specific discipline can lead to a broad range of careers.

Development – Harry Kitch ’71, Chair

The BEAA Development Committee set a goal of 100% participation of the BEAA Board of Directors in annual giving for 2005-06. While we did not reach our goal this year with 96% participation, we will work to increase this to 100% in 2006-07.

Nominations & Membership – Brad Mostoller ’88, Chair

The BEAA Nominations and Membership Committee worked through email and conference calls to review 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, 2006:

<table>
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<tr>
<th>Name</th>
<th>Term Continuing Through</th>
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<tbody>
<tr>
<td>Debra Apruzzese ’80</td>
<td>June 2009</td>
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<tr>
<td>Brenda Lando ’01</td>
<td>June 2009</td>
</tr>
<tr>
<td>Brad Mostoller ’88</td>
<td>June 2009</td>
</tr>
<tr>
<td>Liz Roman ’91</td>
<td>June 2009</td>
</tr>
<tr>
<td>Mary Wycheck ’01</td>
<td>June 2009</td>
</tr>
</tbody>
</table>

The Nominations Committee developed a “shortlist” of top candidates for the 6 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, 2006:

Michelle Beardslee ’03, BSCM
Paul Booth ’92, BSEE  
Darryl Novak ’63, BSME  
Adam Vidoni ’04, BSCM

The following individuals were either renewed or newly appointed to serve as an officer as noted below beginning July 1, 2006:

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Susan Darnell ’87 ’91</td>
<td>VP for Activities, 1st – 2 year term</td>
<td></td>
</tr>
<tr>
<td>Brad Mostoller ’88</td>
<td>VP for Membership, 1st – 2 year term</td>
<td></td>
</tr>
<tr>
<td>Liz Roman ’91</td>
<td>Affinity Chair, 1st – 2 year term</td>
<td></td>
</tr>
</tbody>
</table>

In addition, it was our honor to nominate Richard G. Newman ’56 to receive the Distinguished Engineering Alumni Award. The award was presented during the February 2006 Engineers Week activities.

**Outreach / Affinity – Larry Brunt ’77, 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 is in support of our belief that more active and connected alumni are more likely to contribute back to the College and the Bucknell community whether through service, general involvement, or donations. Affinity Committee programs also raise awareness of the BEAA as a whole and have generated a higher level of awareness of our other BEAA activities.

This year, the Affinity Committee included engineering students at their off-campus events aimed at alumni and friends at all levels of engagement.

The BEAA once again hosted the Connections and Contraptions engineering activity fair and reception after the Homecoming game. This year, the event was held in the Dana Engineering lobby and connecting rooms. Alumni and their families gathered to build a tower structure with the building supplies being spaghetti and gum drops. There were door prizes and refreshments. It was a great success with over 125 guests in attendance.

The BEAA inducted the junior class into the BEAA in February 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.

Reunion Weekend presented another opportunity to interact with alumni and reconnect them with the College of Engineering and the BEAA. This year's Cocktails and Contraptions event was held in the Breakiron building. Alumni and their families gathered to build a raft and then race them in a water trough that was located in the Breakiron lobby. There were door prizes, engineering videos to watch, and refreshments to help alumni meet with BEAA board members, and College faculty and staff. It was a great success with over 270 guests in attendance.

These on-campus activities were once again a great success for the BEAA, allowing the association to increase awareness in the new and existing alumni populations that visit campus. However, the real success of the BEAA in the past year has been in off-campus activities. These activities are spread out around the country and allow alumni to meet and interact while exploring some of the fascinating engineering work under way just a few miles from home.

This year's off-campus events included the Yuengling Brewery tour and reception (co-sponsored with the Bucknell Club of Philadelphia) and a tour of the Glatfelter Paper plant in Spring Grove, PA. A number of great events are on the calendar for the coming year including the Woodrow Wilson Bridge Tour, and a Hershey Park tour. Other great events are in the works for Spring 2007 and beyond.
Planning Committee - Rob Van Schooneveld ’75, Chair

During the past year, the BEAA Planning Committee primarily focused on the new Bucknell Strategic Plan. The Board was able to make comments during the review period of the initial draft and many of these were included in the final approved plan. The BEAA approved an amendment to increase the Board by six members by adding engineering graduates who have graduated in the last five years. These members will serve one three-year term. These recently graduated members will enable the board to relate better to the college by learning from their experiences in graduate school and/or first jobs. This will be a provisional amendment to the by-laws until the Homecoming 2006 meeting when it will be introduced for ratification.

ALUMNI AWARDS

The Bucknell Engineering Alumni Association presented its fifth Distinguished Engineering Alumni Award to Richard G. Newman ’56 during National Engineers Week 2006 in recognition of his accomplishments, service, and dedication to his profession and to society.

Since graduation Newman distinguished himself in his chosen profession and has provided noteworthy contributions to society through service with the California Science Center, Pepperdine University’s School of Business & Management, the Boy Scouts Western Council Board, the YMCA of Metropolitan Los Angeles, and many other public service organizations.

Newman’s career began in 1956 with a large New York-based engineering firm and a stint with the U. S. Army Corps of Engineers. In 1960 he joined a small Connecticut engineering company of 16 employees and helped build it into a 260-employee firm with eight offices throughout the northeast. After selling the company to Genge, a publicly-traded company on the west coast, Newman served as its president and helped that company become one of the largest engineering firms in the United States. In 1977, he joined the engineering firm of Daniel, Mann, Johnson and Mendenhall (DMJM) and became its CEO, tripling its size within six years. In 1984 DMJM joined Ashland Technology Corporation (ATC). In 1989, he prepared a management-led employee buyback proposal for ATC, renaming the new entity AECOM Technology Corporation. Newman’s proposal was both simple and unique: employees would create value for their clients, creating value for AECOM, and this coupled with employee purchasing of shares in AECOM enabled Ashland to be paid for its interest in AECOM. The success of his concept resulted in 100% employee ownership of AECOM within eight years. During his tenure at AECOM, he led growth and diversification activities that extended AECOM’s reach around the world and significantly broadened the company’s business lines. AECOM was named 101st on Forbes magazine’s list of the Top 500 Private Companies for 2005, with annual revenues of $2.4 billion. AECOM features prominently in Engineering News Record’s Top 500 Design Firms, ranking first in the categories of transportation, wastewater, and general building design, and 3rd overall. In September 2005, Newman transitioned from CEO to Executive Chairman of the Board of Directors of AECOM.

In 2002 Newman received the Southern California Leadership Network Leader of the Year Award, the Archdiocese of Los Angeles Ecumenical Leadership Award, and the Outstanding Achievement in Engineering Award from Bucknell’s Southern Alumni Club of California. He has also received the Ernst & Young Greater Los Angeles Entrepreneur of the Year Award and the South California Construction Industries Lifetime Achievement Award.

ANNOUNCEMENTS

Larry Brunt ’77, Christine Okonak ’96, Tom Okonak ’97, and Chuck Wharton ’63 concluded their terms the end of June 2006.

New and returning officers for the term beginning July 2006 are as follows:

Harry Kitc h ’71, President
Susan Darnell ’87, Vice President, Activities
Brad Mostoller ’88, Vice President, Nominations & Membership
Rob Van Schooneveld ’75, Secretary/Treasurer

New members for the term beginning July 2006 are as follows:
Michelle Beardslee ’03, Paul Booth ’92, Darryl Novak ’63, Adam Vidoni ’04

Susan Darnell ’87, resigned as Vice President for Nominations & Membership to accept the Vice President for Activities position. Brad Mostoller ’88 moved up to Vice President for Nominations & Membership.

Shari Aser ’98 will remain the Chair of the Admissions Committee.

Larry Brunt ’77 resigned as Chair from the Affinity/Outreach as a result of his term ending. Liz Roman ’91 accepted the position of Chair for the Affinity/Outreach Committee.

The Executive Committee of the BEAA effective July 2006 will be Harry Kitch ’77, Chair, Susan Darnell ’87, Rob Van Schooneveld ’75 and Brad Mostoller ’88 (Officers) and Shari Aser ’98, Liz Roman ’91, Suzanne Schicktanz ’80 (Committee Chairs).
APPENDIX - BOARD MEETING MINUTES

Bucknell Engineering Alumni Association
Board of Directors

Bucknell Engineering Alumni Association
Board of Directors
September 30 – October 1, 2005 Meeting Minutes


Faculty/Staff Participation: Engle, Fritzges, Keiser

Guests: Adam Vidoni, Tolu Fayanjuola, Darryl Novak

Friday Meeting 9/30

- The meeting was called to order by Rob Van Schooneveld, Secretary.

College & University and University Updates- Jim Orbison, Dean of Engineering

- Jim updated the board about his committee work on the new Bucknell Strategic Plan. (Refer to Powerpoint slides attached)

Nominations and Membership, Susan Darnell, VP Nominations & Membership

- Stacy Wolin was elected to the BEAA Board of Directors starting immediately.
- The DEAA will be awarded to Richard Newman in February 2006.
- The affinity committee will be looking for a new chair as Larry Brunt retires in July 2006.

Overview of Session with Bucknell Alumni Association (BAA), Harry Kitch, President

- In addition to Harry, presidents of the following organizations were in attendance: Bucknell Association for the Arts, Bison Club, Alumni Geek Council and club presidents from local alumni associations.
- The BAA is trying to determine who the various organizations are and what they are trying to accomplish.
- Those present discussed ways of improving communications between the various organizations.
- The BEAA may start reporting our activities to BAA to be distributed to other clubs.
- We may combine activities with other organizations to get more participation by alumni.

Career Development Center (CDC), Pam Keiser, Sr. Associate Director

CDC Overview

- Mission Statement- Educating Bucknellians, in the art of integrating an individual’s career goals with their varied academic and life experiences, self-understanding and self-sufficiency
- CDC Staff: 4 Undergraduate Counselors, 1 ACS Counselor, Manager of Networking Events, 2 recruiting staff, 1 pre-law advisor, 3 office assistants, 12 student peer consultants, 1 student web assistant
- **CDC offers:**
  - **Self assessment & counseling**
  - **Educational programs**
    - Industry Career Spotlight programs
    - Targeted/Co-sponsored programs
    - Weekly Express Workshop series
    - Internships 101
    - Bridge 101
  - **Networking programs**
    - Finance Career Fair
    - Winter Break Networking Events - Boston, Northern NJ, Philadelphia, San Francisco, Pittsburgh
    - BU Communications & Art Career Fair
    - BU Engineering Career Networking Event
    - BU DC Career Fair (Government, Non Profit, International & Public Affairs)
    - Consortium Partnerships/Events - Columbia Business Career Fair, Columbia Career Fair, Philadelphia Engineering Interviewing Day, Columbia Non-Profit Career Fair, Central Pennsylvania Teacher Career Fair
  - **Employer Relations/Recruiting**
    - Employer Expo
    - On Campus Interviewing
    - Off Campus Resume Referral Program
    - Employer Presentations/Information Sessions
    - Employer in Residence Program
    - Large Scale Employer Presentations
    - Information Sessions
    - Recruiting Conversations
  - **Co-Sponsorship of Programs and Events that Benefit Students**
    - Graduate school advising
    - Alumni career services
- **Bridge** - Companies may post job opportunities online. The Bridge provides a way for students to submit resumes to companies who are recruiting.
- **MyBucknell** - Pam demonstrated use of the Bridge on the Bucknell’s web portal, including capabilities available to alumni.
- Pam also discussed the success and challenges Bucknell has in attracting recruiters.

**Introduction of New Student Members, Harry Kitch**
- The following students now serving on the BEAA board were introduced and offered the following comments:
  - Gavin MacInnes, AICHE, appreciates the field trips
  - Kristen Sandri, SWE, will be attending the national conference in Anaheim beginning November 1, 2005. Her organization is looking for speakers.
  - Jeff Stolzfus, IEEE and Tau Beta Pi, is looking for speakers. IEEE is scheduling a field trip to the power plant.
  - Juan Ruiz, ACM, Bucknell is sending six teams to a competition at IBM. His group is interested in hearing the needs of industry.
  - James Tucker, NSBE, is trying to help with resumes. They are participating in networking events. NSBE is holding a dinner for sponsors and alumni in November.
Manny Palugod, ASCE, attended ASCE regional conference. Upcoming events include a CE vs. Mechie football game, construction of concrete canoe. They are working on bridging the gap to becoming professionals.

Tom Stroka, ASME, Upcoming events include outside speakers, tailgate on Parents Weekend, factory tours, attending conferences.

- Larry Brunt - Have BEAA offer intimate sessions to discuss career paths where the student can walk in, sit down, perhaps at a future BEAA meeting.
- Liz Bunker suggested offering quick sessions over a meal. How do we structure it to attract students to the individual? How can we enhance the career networking event. Lois Engle will work with the students and the Career Development committee to come up with some event.

Other Business
- The Bylaw Amendment adding student members to the BEAA Board of Directors was adopted.

The Friday meeting was adjourned

Saturday Meeting 10/1

The Plan for Bucknell
- The remainder of the Homecoming meeting was devoted to a group discussion of the new Bucknell Strategic Plan. Meeting notes were consolidated and a letter representing the BEAA response was forwarded to Brian Mitchell, Bucknell University President.

The final draft of the letter is as follows:

October 27, 2005

President Brian Mitchell
Office of the President
Bucknell University
Lewisburg, PA 17837

Dear President Mitchell:

The Bucknell Engineering Alumni Association Board of Directors (BEAA) met on September 30 and October 1, 2005, during Homecoming Weekend. The Board dedicated a significant portion of our agenda to an open discussion of The Plan for Bucknell (The Plan).

The BEAA respectfully recommends that the following comments, suggestions, and observations be incorporated into the final version of Bucknell’s strategic plan.

General Comments
1) The BEAA noted The Plan did not reference the considerable value of an engineering education within a liberal arts environment. The BEAA believes the College of Engineering has a strong reputation, for which the University should be proud. The Plan should refer to Bucknell as a liberal arts university with a strong offering of professional programs, including engineering.

2) Bucknell will need to prepare students for a rapidly-emerging global economy and continuing advancements in technology. The College of Engineering can be a greater resource to the entire
3) The BEAA believes the College and the University should pursue other engineering degree alternatives for students, such as a BA in engineering or a minor in engineering. Engineering courses would be valuable preparation for society, now and in the future, and a corporate world that demands critical thinking problem-solvers.

Mission Statement
The BEAA generally agrees with the wording of the proposed Mission Statement (as modified by the University Council).

Vision Statement
Since the Vision Statement should be one of high and challenging aspirations, the BEAA suggests a change as follows:

To ensure students obtain the premier undergraduate experience in American higher education.

Five Core Strategies
1) Academic Core:
   • For Bucknell to remain competitive in the next century, the BEAA suggests Bucknell build educational options for a wide range of non-engineering students in the area of engineering.
   • Undergraduate research is not highlighted as an area of focus in either of the Colleges. While the BEAA understands that Bucknell is primarily a teaching institution, the BEAA suggests the opportunity of participating in research enriches the students’ education. At an undergraduate level, the opportunity to conduct research differentiates Bucknell’s engineering college from other engineering programs across the country.
   • The BEAA suggests the promotion of centers of excellence and the creation of more opportunities similar to the ILTM program. Such programs would involve more teams of students from both colleges, giving them a chance to enhance their team problem-solving skills.
   • The BEAA suggests adding an Initiative #8 where alumni are used to help accomplish this strategy.

2) The Residential Learning Experience:
   • The Residential Learning Experience should not be limited to on-campus experiences. Bucknell should collaborate with local government, businesses and residents to devise an off-campus residential program that will benefit the local community and the student body for the purpose of promoting life experiences that reach beyond the university’s boundaries.
   • Support and encourage student initiatives including co-curricular and extra-curricular clubs and activities.
   • The BEAA recognizes the University’s efforts to address destructive behavior problems through the behavior education program and the disciplinary program. However, the BEAA suggests that the University add a third element - a positive incentive for good behavior.

3) Diversity:
   • The term working partnerships is vague and the BEAA suggests the partnership be defined.
   • In response to the Initiatives listed, the BEAA suggests Initiative #3 be expanded beyond “Black colleges”.
   • The BEAA suggests the definition of diversity should be expanded to include all forms of diversity, such as geographic diversity, etc.
   • We note that the College of Engineering is already a major contributor to diversity on campus as approximately 50% of the international students are engineers.
4) Financial Strength:
   • The College of Engineering is an essential institution that enhances the university’s reputation. The BEAA urges the University not to divert support from engineering to other areas.
   • The BEAA believes *The Plan* uses language that makes it appear that the professional programs have a negative impact on the financial strength of Bucknell. *The Plan* should (accurately) describe the professional programs as an asset to the financial position of Bucknell. Many of the University’s corporate donors are linked to the University primarily through their recruiting of our engineering graduates.

5) Building Bridges:
   • The word “culture” should be added within this section. Bucknell must push for programs to change the culture inside of Bucknell and find ways for students to learn how to interact with different cultures.
   • The BEAA suggests modifying the third paragraph because the Bucknell Bubble does exist. We believe the “bubble” first must be burst “inside of” Bucknell.
   • Because of its importance in the context of a diverse and complex global society, the BEAA suggests moving Building Bridges to core strategy #4 and moving Financial Strength to core strategy #5.

Plan Implementation
The BEAA encourages the University to develop a performance management approach for *The Plan*, as this is the ultimate measurement tool for its successful implementation. As an example, a suggested pre-labeled grid for each initiative might look like this:

<table>
<thead>
<tr>
<th>Action</th>
<th>Responsibility</th>
<th>Due Date Or Interim Milestone Date</th>
<th>Success Criteria</th>
<th>Status</th>
<th>Comments</th>
</tr>
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The BEAA appreciates this opportunity to review and comment on *The Plan for Bucknell*. We hope you will find our comments helpful.

The BEAA would like to continue to be a part of the process as Bucknell’s strategic plan is developed and implemented. We are very willing to offer any assistance needed to see that *The Plan* is a success.

Sincerely,

Harry E. Kitc’h ’71, P.E., President
BEAA Board of Directors

cc: James G. Orbison ’75, Ph.D., P.E., Dean of Engineering
    Lois A. Engle, Assistant to the Dean

Saturday Meeting was adjourned by Harry Kitc’h.
Bucknell Engineering Alumni Association
Board of Directors
February 24-25, 2006 Meeting Minutes


Faculty/Staff Participation: Engle, Fritzges, Keiser, Dean Orbison, Prof. McGinnis, Prof. Csernica, Prof. Baish, Prof. Aburdene

Guests: Michelle Beardslee, David Campolongo, Keith Donahue, Joe Furino, Brad Gething, Eric Hansen, Terry Hibbard, Diane Hymas, Matt Lucia, Richard Newman, Darryl Novak, John Venarchick, Adam Vidoni

Friday 2/24
- The meeting was called to order by Harry Kitch, President.
- The minutes from the September 30-October 1, 2005, meeting were approved.
- Richard Newman, Distinguished Engineering Alumni Association Recipient, was introduced.
- Susan Darnell was nominated and approved as the new Vice President-Activities.
- Brad Mostoller was nominated and approved as the new Vice President-Membership.
- The general meeting adjourned so members could meet in groups with respective degree departments.
- Members participated with students in the Engineering Career Network Event at Larison Hall. A total of 50 alumni and 206 students attended the event.
- Members participated in the BEAA Dinner where Richard Newman was presented with the Distinguished Engineering Alumni Award. Junior engineering students were inducted into the Bucknell Engineering Alumni Association. The students presented the winning poem, banners, videos and results of the Interdepartmental Engineering Week competition. Over 400 students attended the dinner.

Saturday 2/25

College Report, Jim Orbison, Dean of Engineering

Some of the highlights of Dean Orbison’s presentation:
- There were 1800 applicants to college of engineering this year, an increase of 1%.
- Two hundred applicants applied for admission to the Biomedical Engineering program where there are 18 available slots.
- A five-year Engineering Management Degree has been authorized by the Board of Trustees. The program will be open to first year engineering students and will be initially limited to ten students per year. The program will begin next year.
- The college is receiving a $250,000 grant from Air Products to renovate three to four classrooms in Dana. Construction is scheduled to begin in the summer of 2006. The college has applied to HUD for grants for renovation of the remaining classrooms with work to begin in September, 2007.
- A pipe rupture in Dana caused $25,000 in damage to the computer system. The building has been running on auxiliary heat. The college is planning to replace the HVAC system in Dana at an expected cost of $3.5 million. The work will be hopefully scheduled for the summer of 2007.
- One of the challenges facing Bucknell is it will be increasing its comprehensive fee by 9.3% making it one of the most expensive universities in the country. Part of this increase is due to the expiration of Bucknell’s gas contract. Bucknell’s annual gas bill is expected to increase by $5 million effective July 1, 2006. Also, the university is reducing the teaching load of its professors from six to five courses per year. This is expected to add $3 million to the annual budget.
• Other challenges facing Bucknell engineers are outlined in the attached power point presentation.
• In order to plan for the future, each of the six academic programs has formed committees to plan and make associated revisions to the Bucknell Plan for Engineering Education to address where we need to be ten years down the road. The results of this committee work are expected by April, 2006.

Reports on Friday’s BEAA sessions with Engineering Departments

Civil Engineering Topics of Discussion:
• Mike Toole is a newly tenured Associate Professor
• Aarne Vesilind and Ron Ziemian received awards
• The department has received grants for new equipment.
• The Implication of the 5 course teaching load
• Program Educational Objective
• Systems Engineering, Sustainability and Six Sigma

Chemical Engineering Topics of Discussion:
• 5-Year program
• Faculty turnovers due to up coming retirements.
• The direction the department should be going with new hires
• The effects of the ageing population
• Energy
• What the new graduates are doing
• Interdepartmental opportunities- cross discipline, cross years, teamwork

Electrical Engineering Topics of Discussion
• Overview of the curriculum
• Feedback of ABET- requirements keep changing
• Depth vs. breadth
• The need to get more depth of design
• Preparation of students for the Fundamentals of Engineering exam

Computer Science Topics of Discussion:
• ABET- How we need to adapt to shifts in the industry
• Outsourcing and its effects on industry
• What Bucknell brings to the table

Mechanical Engineering Topics of Discussion:
• Discussion with recent graduates
• The importance of communication schools
• Debated adding management and economics to curriculum

BEAA agreed that we should continue to have these sessions with the faculty each year.

BEAA and the Office of Alumni, Parents & Volunteers Updates, Lois Engle, Assistant to the Dean of Engineering

Off Campus Events:
• The office of Alumni, Parents and Volunteers has been knocking on our door to help them with their events. Lois has developed a three-year Off-Campus Event Plan. Pennsylvania has the greatest number of engineering alumni, as well as the greatest concentration of young alumni and engineering prospects.
Lois laid out potential areas to hold off campus events. The Pennsylvania, New York/New Jersey, Virginia/DC, and Maryland areas are the hot spots for potential for events. Students can attend events in the tri-state area also. New ideas for events were discussed.

Lois is going to need BEAA help to organize these tours, arrange lunches, etc.

**Proposed New Fall Meeting New Career Event, Pam Keiser, Senior Associate Director, Career Development Center**

- A new Career Development Event is being planned for Homecoming Weekend. It will give students the opportunity to explore their academic major and career path by speaking with alumni from various academic majors and backgrounds. Six rooms will be provided where alumni and students from the six engineering disciplines will meet during simultaneous sessions. The meetings will be targeted toward freshman and sophomores.
- A suggestion was made to also have a room for “diversity” students.
- BEAA agreed to embrace and participate in this program.

**Committee Reports**

**Admissions Committee, Shari Aser**

- Women in Engineering (WIE) – The WIE program was started to begin contacting prospective women earlier in the admissions lifecycle. The top prospect calling contacts feedback, we learned that waiting until the accepted phase was too late as these young women already knew where they wanted to attend college.
- A better system with alumni/prospectives is forthcoming from Admissions and the Alumni Office with a position being added designated to handle Alumni Admissions Volunteer Programs.
- The committee will continue to explore setting up socials to promote mentoring of WIE candidates who actually attend Bucknell.

**Affinity Committee, Larry Brunt**

- The committee will be looking for a new chairman since Larry will be leaving the board in July after serving the maximum three terms.

**Career Development Committee, Suzanne Schicktanz**

- The Career Network Event was successful. In the future, the committee will try to interest more Biomedical Engineering employers to attend.

**Planning Committee- Rob Van Schooneveld**

- The committee will be working on the 2005-2006 Annual Report, the Operating Handbook and the new Bucknell Plan to see where the BEAA can actively participate.

**Closing Business, Harry Kitch, President**

- The BEAA presented gifts to graduating senior students who have completed their service to the board of directors.

**Meeting was adjourned**
Bucknell Engineering Alumni Association  
Board of Directors  
Saturday June 3, 2006 Meeting Minutes


Student Member Participation: MacInnes, Sandri

Faculty/Staff Participation: Engle, Fritzges, Orbison

Guests: Katie Hoffman, Ray Mrozinski, Darryl Novak

Welcome - Harry Kitch
- The Meeting was called to order by Harry Kitch, President.
- The minutes from February 24-25, 2006 meeting were approved as submitted.
- All reports by the committee chairmen and officers for the annual report must be sent to Rob Van Schooneveld by the end of June, 2006.

End of the Year Highlights - Harry Kitch
- Student members were added to the board.
- We are invited to return to meet with the departments in February.
- The BEAA organized three off campus events to Glatfelter, Yuengling, American Airlines.
- Lois Engle is working on three-year plan for future events.

Homecoming
- Harry proposed having the undergraduate research symposium presented at the Homecoming meeting rather than in February.
- We decided to welcome juniors into the Alumni Association at the Homecoming meeting rather than at the February meeting.

Proposed Amendment to the BEAA By-Laws
Harry proposed adding six voting engineering alumni to the board that have graduated within the last five years. This should help provide more relevance to the interaction between the board and the college. Members in this position will serve one three-year term. The proposed amendment was approved and thereby becomes a provisional amendment to the by-laws.

Off-Campus Events - Lois Engle and Susan Darnell
- Lois presented a list of twenty Event/Tour possibilities.
- A trip to the Woodrow Wilson Bridge and Hershey Park are being scheduled for Fall 2006 and an event in California is possible for March, 2007.

Board and Committee Memberships for 2006-2007 - Brad Mostoller
Larry Brun ’77 resigned as Chair from the Affinity/Outreach as a result of his term ending. Liz Roman ’91 accepted the position of Chair for the Affinity/Outreach Committee.

Michelle Beardslee, BSCM, Class of 2003, Paul Booth, BSEE, Class of 1992, Darryl Novak, BSME, Class of 1963, and Adam Vidoni, BSCM, Class of 2004 were all unanimously approved to serve a three-year term on the BEAA Board of Directors.
The following board members were re-appointed to serve a second three-year term: Debra Apruzzese, Brenda Lando, Brad Mostoller, Liz Roman, and Mary Wycheck.

D. Lee Hamilton, Class of ’57, unanimously approved to receive the Bucknell Distinguished Engineering Alumni Award.

College Report and Planning Discussion - Jim Orbison

Committee Reports

Admissions - Shari Aser

- 50 Women enrolled in the college for 2005. The Women in Engineering (WIE) program is having an impact.
- The Society for Women Engineers (SWE) and WIE are planning an over-night social event.
- Patty Flannery has been appointed the new Admissions Volunteer Coordinator, now a full-time position.

Career Development - Suzanne Schicktanz

Suzanne presented a new Career Development event called Connections for Engineers: Majors & Careers. It will be held during Homecoming Weekend 2006. If it is successful the event will be held annually. The event will target primarily first- and second-year students. “The purpose of this program is to help students decide what academic major they would like to declare and/or what career path they may be interested in exploring by speaking with alumni from various majors and background to learn what they pursued “career-wise” and how, in retrospect, they felt their academic concentrations helped them be successful.” The board fully supports this event.

Chuck Wharton (3 Years) and Larry Brunt (9 Years) completed their service to the Board of Directors and were duly recognized.

Closing Comments - Harry Kitch

Meeting was adjorned.
## APPENDIX – BEAA Committee Membership

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