On behalf of the students, faculty and staff of the SIUC College of Engineering, I am very pleased to present the newest highlights of the College.

Much has happened since our last report: 1987 alumna and astronaut Joan Higginbotham has gone into space; 1970 alumnus Dick Blaudow, CEO of ATS, and his wife Brigitte have donated $250,000 for the Blaudow-ATS Scholarship Program for Technical Leadership in Manufacturing; and 1985 alumnus Dan Korte, Vice President of Supplier Management & Procurement at Boeing, is SIUC’s new executive focal.

As part of a $1.2 million NSF grant, we promised a plan that would increase the College of Engineering’s five-year graduation rate from 37% to 67% by focusing on first and second year retention rates. A holistic freshmen-sophomore program is being implemented that consists of:

- A new Engineering Residential College that forms the basis of a living-learning community;
- A new approach to teaching mathematics that includes supplemental instruction and a new developmental math course designed to ready engineering students for calculus;
- An innovative, hands-on and project-based Introduction to Engineering course that is common to all first-year students in the College;
- Common sections of cohort groups for mathematics, english, and speech communication courses, many of which will be offered inside the Residential College;
- A four-week, summer math program for under-prepared students;
- A peer-mentoring program whereby successful upperclassmen mentor younger students;
- Mentoring by faculty and practicing engineers.

Together, the programs create a supportive community of learners. All programs will be fully implemented by summer 2007.

I would also like to take this opportunity to congratulate the hard-working students who are actively involved in the College of Engineering. Several of our student organizations competed and won awards that recognized their skills and knowledge of engineering. There were also many individual students who won scholarships and fellowships, both on the collegiate and national levels. These students, who display a continuing determination to develop their education, bring great honor to the College.

I must thank Associate Dean Nicklow and the Dean’s staff - Ms. Janet Meadows, Ms. Shellie Hunsperger, and Ms. Anna Marie Alms - for their contributions to the smooth and successful operation of College administrative offices. This Dean’s report has been edited and produced by Ms. Kelly Boyce, an undergraduate research assistant at SIUC. I hope you enjoy it!

William P. Osborne, Dean
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Southern Illinois University Carbondale

Dean’s Report 2006-2007

The SIUC College of Engineering Dean’s Report is produced for the alumni, faculty, and friends of Southern Illinois University Carbondale.

Please direct any questions or comments to:
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In November 2005, SIUC began its $100 million capital campaign called “Opportunity Through Excellence.” The University recently passed the $70 million mark. Thanks to a patent donation valued at nearly $5 million, the College of Engineering has achieved and passed its $6 million segment of the capital campaign (the patent value does not count until the end of the campaign). However, the College still needs to reach its campaign scholarship funding goal of $1.4 million by raising $500,000 by June 30, 2008.

Our focus still remains on recruitment and retention, bolstered by scholarship funding. After awarding over 100 scholarships, we depleted our scholarship funds for Fall 2007 and had to turn away many outstanding individuals in need of financial assistance. The College of Engineering needs $500,000 to reach its funding goal. We are asking for your financial support, and it is crucial now more than ever. You can help us reach our goal through a cash donation or pledge, a gift-in-kind, stock, a matching gift, or a planned gift (most of these gifts are tax deductible.) A significant pledge can be paid over a five year period with the total amount counted toward the campaign goal.

The Dick and Brigitte Blaudow gift has already resulted in the selection of six outstanding community-college transfer students for scholarships for Fall 2007. In addition to the Blaudows’ commitment to the College, corporate partners such as Caterpillar, Boeing, Aisin, and Peabody Energy, as well as numerous alumni and friends are bringing us closer to achieving our goals. For example, over $45,000 was raised through the Fall 2006 telefund alone. Another proactive approach we have taken is that over 300 letters have been sent to alumni who have been identified as business owners or administrative executives. They too have been asked to step forward and help us address our recruitment and retention challenges through their financial commitment.

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We have raised 71% of our $106.22 million goal. Thank you!
The CEE faculty were awarded over $1 million in research and education grants. A highlight of this accomplishment is a grant from the National Science Foundation to improve the recruitment and retention of first-and-second-year students in engineering and technology. Dr. Jale Tezcan and Dr. John Nicklow are two of the Principal Investigators on this grant entitled “Engineering and Technology Talent Expansion Program at Southern Illinois University Carbondale”. Dr. Sanjeev Kumar has continued his research in the use of coal by-products in concrete through funding from the Illinois Department of Commerce and Economic Opportunity and the Illinois Clean Coal Institute. The application of his research will be demonstrated in the construction of the Southern Illinois Ballpark in Marion, Illinois.
Our faculty are experts in the fields of structural engineering, water resources engineering, environmental engineering, geotechnical engineering and surveying. Research has been presented in numerous conferences this year sponsored by organizations ranging from the American Society of Civil Engineers, American Society of Engineering Education, the American Institute of Hydrology, and the International Conference of Engineering Education and spanning the globe from the United States to Puerto Rico, Taiwan, Korea, India, and Switzerland.


Notable achievements of our faculty include:

- Bruce DeVantier, Professional Achievement Award, Illinois Section of the American Water Works Association
- Sanjeev Kumar, Academic Award, Korean Geo-Environmental Society
- Sanjeev Kumar, CEE Outstanding Teacher Award
- Rolando Bravo and John Nicklow, Diplomates, American Academy of Water Resources Engineers
- Vijay Puri, Key Note Address to the 13th Symposium in Earthquake Engineering, IIT Roorkee, India
- Vijay Puri, Key Note Presentation, Indian Geotechnical Conference, IIT Madras, India

We have added two new courses in structural engineering to our program: CE 445 Fundamental Theory of Earthquake Engineering and CE 448 Structural Design of Highway Bridges. CE 445 is a study of the nature and mechanics of earthquakes. Topics include plate tectonics, types of faulting, recording and measuring ground motion, the analysis of free and forced vibration of a single degree of freedom, steady state and transient response, impulse response functions, dynamic amplification and resonance, response to ground motion, and response spectrum analysis. CE 448 involves the structural design of highway bridges in accordance with the specifications of the American Association of State Highway and Transportation Officials (AASHTO). Topics include the design of concrete decks, steel girders, pre-stressed and post-tensioned concrete girders, abutments, wingwalls, piers, and footings.
The faculty in the Department of Electrical and Computer Engineering have been very active in their respective areas of interest. Dr. Morteza Daneshdoost was the Chair and Dr. Constantine Hatziadoniu was the Co-Chair of the North American Power Symposium, held September 17-19 at SIUC. 180 participants attended and 93 papers in all areas of electric power engineering were presented. Dr. William Osborne was named Fellow of the Institution of Electrical and Electronic Engineers, while Dr. Ramanarayanan Viswanathan and Dr. Ning Weng were recipients of the ECE Outstanding Teacher Awards. Dr. Nazeih Botros was awarded the College-Level Excellence Through Commitment Outstanding Teacher award. Dr. Fran Harackiewicz was named an SIUC Woman of Distinction. The faculty have been very busy submitting and presenting research material and journal articles. 29 journal articles were published in 2006, including six by Dr. Fran Harackiewicz, five by Dr. Spyros Tragoudas, and four by Dr. Dimitrios Kagaris.
Electrical and Computer Engineering

Research Highlights

- Human-Machine Interface System for Hands-Free Robot Control (Lalit Gupta)
- Ultra-Wide Band, Internal Antennae for Mobile Applications (Francis Harackiewicz)
- Logic BIST Schemes for Fault Location and Test Embedding (Dimitrios Kagaris)
- Ultrasonic Tracking System for Motion Capture Studies in Ergonomic Applications (Haibo Wang and Ajay Mahajan-MEEP)
- Effective Noise Control for Improved Health and Safety in Coal Mines (Farzad Pourboghrat, Ramanarayanan Viswanathan, and Morteza Daneshdoost)
Research Highlights

- Enhancement of Blast Resistant Composite Marine Structures (Serge Abrate)
- Coal Fuel Alliance (Tomasz Wiltowski)
- Dynamic Modeling of a Fluidized Bed, Fisher-Tropsch Reactor (Kanchan Mondal, Tomasz Wiltowski, and Kambiz Farhang)
- Multifunction Catalyst/Reactor Development for Product-Defined Fisher-Tropsch Synthesis (Tomasz Wiltowski, Kanchan Mondal, and James Mathias)
- Prediction of Flow-Induced Asperity Load in Lubricated Contact (Kambiz Farhang)
- Development of a System for Testing the Performance of Nanofluid Flow and Heat Transfer in a Heat Exchanger (Emmanuel Nsofor)
- Ultrasonic Tracking System for Motion Capture Studies in Ergonomic Applications and Automation and Performance Improvement of Spiral Concentrator (Ajay Mahajan)
- Development and Demonstration of an Intermetallic Bonded Diamond Composite Prototype (Dale Wittmer and Peter Filip)
The faculty in the Department of Mechanical Engineering and Energy Processes have continued to be quite active in research and publications. In 2006, they wrote more than 20 grant proposals, published 16 peer reviewed journal articles, 48 peer reviewed conference proceedings, and made 59 presentations. Dr. Serge Abrate organized a symposium as part of the 8th Biennial Conference on Engineering Systems Design and Analysis in Italy. Dr. Om Agrawal helped organize the International Conference on Fractional Differentiation and its Applications in Portugal and the International Symposium on Mathematical Methods in Engineering in Turkey. Dr. Kambiz Farhang served on the ASME District Operating Board and the ASME Global Communities Operating Board, and he also served as the District C Leader for ASME. Dr. Ajay Mahajan was Technical Chair for an Intelligent Systems Symposium. Dr. Mahajan is also leading a Biomedical Research Initiative, a partnership with physicians from the SIUC School of Medicine in Springfield, IL. Dr. Tomasz Wiltowski was the recipient of the MEEP Outstanding Teacher Award. He was also nominated as the Chief Guest at the International Workshop for Hydrogen Energy in Jaipur, India and served as a member of the Coal Fuel Alliance, State of Illinois Delegation to China on Clean Coal Technologies. Dr. Om Agrawal was awarded the College-Level Excellence Through Commitment Outstanding Scholar Award. Dr. Dale Wittmer was formally selected to be Chair of the Department. He continues to be an active member of the Board of Governors, ChemMatCARS Division of the APS at Argonne National Laboratory.
Research Highlights

The faculty in the Department of Mining and Mineral Resources Engineering have been actively pursuing research funded by state and federal government agencies and by industry. This year, as in previous years, externally-sponsored research exceeded $1 million. Some of the research areas currently being pursued are:

- Remote Underground Coal Mining Using State-Of-The-Art Equipment (Bane Kroeger)
- Utilization of Coal Combustion Products for Transmission Poles (Y. Paul Chugh)
- Recovery of Natural Gas from Unconventional Sources, Coupled with Carbon Sequestration (Satya Harpalani)
- Alternate Geometry for Underground Coal Mines in Illinois (Y. Paul Chugh)
- Automation and Performance Improvement of Processing Operations (Manoj Mohanty)
Dr. Y. Paul Chugh, Professor of MMRE and Director of Combustion By-products Recycling Consortium-Midwestern Region at Southern Illinois University Carbondale was selected for a Fulbright Senior Specialists project in India at the Indian School of Mines, Dhanbad. The Fulbright Program is among the highest honors for a faculty member. Chugh was involved in developing and enhancing capacity in the area of environmental science and engineering with emphasis on developing and delivering undergraduate and graduate programs of the highest caliber. The Fulbright Program, America’s flagship international educational exchange activity, is sponsored by the U.S. Department of State and the Bureau of Educational and Cultural Affairs. Dr. Chugh was also the recipient of the Dean Juh Wah Chen Outstanding Faculty Award in 2007.
The faculty members in the Department of Technology have been very active in their respective professional areas. Dr. Bruce DeRuntz is serving on the Board of the National Association of Industrial Technology (NAIT), after serving as the president of its Industry Division for two years. Dr. Mandara Savage served as the President of NAIT’s Safety Division. Dr. Carl Spezia was the Co-Technical Chair of the IEEE North American Power Symposium and was named the Department’s Outstanding Teacher in 2007. Dr. Tomas Velasco organized and developed SIUC’s annual American Society for Quality (ASQ) Spring Conference in Quality Assurance.

The Industrial Technology Program in the Department of Technology has made major curriculum changes to reflect contemporary industry needs. Starting in the fall semester 2007, the following new courses will be phased in: Six Sigma Green Belt, Six Sigma Black Belt, Lean Manufacturing, Project Management, and Geometric Dimensioning and Tolerancing (GD&T).
Research Highlights

- Development and Testing of a Self-Organizing Intelligent Metering System for Energy Monitoring and Control (Carl Spezia)
- A MathCad Application for Teaching Energy Economics and Efficiency in Undergraduate Electric Machine Courses (Carl Spezia)
- Estimation of On-Site External Contact Area in a Pressure (PSI) Rating Test (Bruce DeRuntz)
- Integrated PLC-Robotic Work Cell for Enhanced Laboratory Education (Julie Dunston)
- Optimizing Neural Network Training Parameters using a Genetic Algorithm (Julie Dunston)
- Neural Network Training of Fatigue Data (Julie Dunston)
- Evaluating the Role of Six-Sigma Paradigms to Measure Business Performance (Tomas Velasco)
- Development of an Expert System for Gem Identification (Tomas Velasco)
Meet the Class of 2010

Tamicka Monson, Computer Engineering

I’m Tamicka and I will be a sophomore in computer engineering in the fall of 2007. I chose to attend SIUC for financial reasons and because it is close to home. I am in the University Honors Program with a 3.77 GPA, and I am a member of Chi Alpha Campus Ministries. I help out at my church’s nursery and have made the Dean’s List during my first year. I like the engineering program at SIUC because the people here help each other in any way they can and provide mentoring in areas where it is needed.

Lisa Furby, Mechanical Engineering

Hello, I’m Lisa Furby, a first year engineering student from Carbondale, IL. Even though I have only been at SIUC for one year, I have earned enough credits to be considered a sophomore. My major is Mechanical Engineering and Energy Processes, but my concentration is Bio-Medical Engineering. I am currently working on an undergraduate research project with Dr. Ajay Mahajan; we are designing an artificial gill. When I graduate from SIUC, I hope to pursue my Ph.D. and design artificial organs. I have received a Chancellor’s Scholar Award, and I am a member of the SIUC Leadership Council. I am very pleased with my decision to attend SIUC; the faculty are always welcoming and willing to help. Additionally, there are many support programs and other opportunities for students to excel academically.

Jairo Gonzalez, Mechanical Engineering

My name is Jairo E. Gonzalez. I was born in Monterrey, Mexico and moved to the U.S. when I was about five years old. I graduated high school in 2006 and was awarded two scholarships to come to SIUC; a personal essay scholarship and an Engineering CAD scholarship. I also received another scholarship through the Minority Engineering Summer Bridge Program. I came to SIUC because I saw great potential in this institution. They also gave me personalized attention and helped me with everything from where I lived to where to buy books, and they offered valuable advice on becoming successful as an engineering student.
Meet the Class of 2010

**Geoffrey B. Daniel, Computer Engineering**

My name is Geoffrey and I will be a sophomore in computer engineering in the fall of 2007. I am originally from St. Louis, MO. I am currently a member of the SIUC track team and the National Society of Black Engineers. One of the biggest influences in my decision to attend SIUC was the Minority Engineering Summer Bridge Program. I was a little hesitant to give up my summer, but in the end, it really paid off. The program was beneficial for my transition from high school to college. The counselors prepared me for the demands that college-level courses require; they also helped me with any questions and concerns I had about starting college. Because I had such a positive experience with the Summer Bridge Program, I have applied to be a counselor this summer so that I can make a positive impact on incoming students.

**Seth M. Knight, Civil and Environmental Engineering**

My name is Seth and I am a freshman in Civil and Environmental Engineering. I am originally from Jamaica, IL, a small town near Champaign. I graduated high school in 2006 and was awarded a National Science Foundation scholarship to continue my education. Since I live very close to the University of Illinois Champaign-Urbana, I had considered attending college there. However, once I researched and visited SIUC, I realized that the personal attention I would receive from SIUC professors would be very beneficial. I am very happy with my decision to attend SIUC; my professors are always helpful and willing to give me any extra assistance I need. In addition, the small class sizes and extracurricular activities help me understand the material and apply it to real-life situations. Next year I hope to be a member of the American Society of Civil Engineers, and one day, I hope to work for the Illinois Department of Transportation.
Student Awards

Rapeepan Maitree was awarded the David L. Eddingfird Award. Rapeepan came to the United States from Thailand in 2001 to continue her high school education. She is now a senior, majoring in Electrical Engineering. Rapeepan is a member of the Thai Student Association at Carbondale, United Nations Association of the USA, and IEEE, and she is secretary of the SIUC Kendo Club. She also participates in the IN GEAR Program (International Network Educational Activities in Rural Schools).

Michelle Puzey was awarded the College of Engineering Outstanding Senior Award. Michelle is a Mechanical Engineering student from Caitlin, IL. She is a member of the Society of Women Engineers and Tau Beta Pi Engineering Honor Society. Upon graduating from SIUC in May 2007, Michelle will be taking a position at John Deere.

Teresa Abney was awarded the Herman J. Stoever Award. Teresa is a senior in Mechanical Engineering and Energy Processes. She is a member of the Society of Women Engineers, Tau Beta Pi Engineering Honor Society, and the American Society of Mechanical Engineers. Following her May 2007 graduation, Teresa will assume a position with the Raytheon Missile Systems in Tucson, AZ.

Christopher M. Jenkins was also awarded the Herman J. Stoever Award. Chris is a senior in Electrical and Computer Engineering. He is a SIUC Presidential Scholar and his college involvement includes serving as a mentor in the College of Engineering’s orientation program for new students and as an officer in IEEE. He has conducted research in the area of circuit testing and has contributed to a publication presented at the International Symposium for Circuits and Systems in New York in May 2007.

Zachary Scharnhorst was awarded the E. Leon Dunning Award. Zach is a senior from Quincy, IL and is majoring in Industrial Technology at SIUC. He is the president and team captain of the SIUC paintball team. Zachary will be graduating in May 2007 and hopes to pursue a career in technology.

Jared T. Burde, a senior in Electrical Engineering and Physics, was the recipient of the Goldwater Foundation Award. This award is given to outstanding students in mathematics, natural sciences, and engineering and provides the recipient with a $7,500 tuition reimbursement.
In March, the College of Engineering announced the first six winners of a new scholarship program, known as “The Blaudow — ATS Program for Technical Leadership in Manufacturing.” It is aimed at community-college students who are transferring into the engineering program at SIUC. The scholarship is for $14,000 and is designed to cover almost all tuition and fees during the students’ junior and senior years. Additionally, the scholarship provides a paid internship with Advanced Technology Services Inc, the company founded by donor Richard W. Blaudow and his wife, Brigitte.

The couple gave the University $250,000 last year to fund the annual scholarships, which will identify and support future engineering leaders who will help sustain American manufacturing in the future. Blaudow earned a Bachelor’s degree in Electrical Engineering Technology at SIUC in 1970. He worked at Caterpillar Inc. for 17 years, working with manufacturing production equipment before spinning off his own company in 1985.

Dr. Bruce DeRuntz coordinated the dissemination of information and recruitment of applicants to Illinois community colleges. A committee consisting of Dean William P. Osborne, Associate Dean John W. Nicklow and ATS President Jeff Owens selected the six winners from a field of 33 applicants after conducting a search at all Illinois community colleges. The committee selected winners based on their work ethic and leadership potential, as well as their academic work.

The College of Engineering would like to congratulate the following winners:

- Jana R. Aylsworth, 19, of Troy, IL, a mechanical engineering major currently attending Southwestern Illinois College.
- Haley M. Constable, 19, of Carterville, IL, an industrial technology major currently attending John A. Logan College in Carterville, IL.
- Max A. Kleiboeker, 19, of Mount Vernon, IL, an electrical engineering technology major. Kleiboeker currently attends Rend Lake College in Ina, IL.
- Tyler C. Madding, 19, of Decatur, IL, an industrial technology major currently attending the Morrison Institute of Technology in Morrison, IL.
- Matthew R. Morgan, 20, of Anna, IL, a double major in computer engineering and electrical engineering. Morgan currently attends Shawnee Community College in Ullin, IL.
- Jerry W. Teel Jr., 28, of Milledgeville, IL, an industrial technology major. He currently attends Sauk Valley Community College in Dixon, IL.
The Materials Technology Center (MTC) has been on two major trips over the past year; one to Taiwan and another to China. In November, six students from the College of Engineering and the College of Liberal Arts attended the Creativity in Design Contest at the National Chung Cheng University in Taiwan. Those who attended the contest were: David Swanson, Oliver Yang, Mariah Snider, LaQuita Smith, Max Yen, Daniel Reynolds, and John Rudak. These students were part of an interdisciplinary team that presented Piece of Mind, a new child safety seat. The SIUC student team was awarded a third-place prize for innovation.

Dr. S.C. Yen, MTC Director, visited China with the CEO of Advanced Technology Services (ATS), Inc., Dick Blaudow, and the Vice President of sales at ATS, Jim Cote. The purpose of the trip was to explore international market potential for ATS. ATS is the leading supplier of outsourced factory maintenance, industrial component repair and IT services for top FORTUNE® 500 companies. Dr. Yen, Mr. Blaudow, and Mr. Cote visited seven cities, ten companies, four economic zones, and four universities that are partner schools of SIUC. They met with industry officials and SIUC alumni in China on behalf of ATS and SIUC in order to get a better sense of global perspectives in the areas of education and economic development.

Last summer, the Materials Technology Center coordinated a summer workshop for the National Science Foundation. The workshop is a ten-week program held at SIUC for students who are interested in attending graduate school and who want to explore different possible research topics. Students who attended learned concepts and skills in the areas of nanotechnology and biotechnology. Over 200 students applied to be a part of the first workshop, and many of the students came from other universities from across the U.S. Participants were provided with a stipend, housing arrangements, and travel expenses.
CAFS was recently awarded a $4.6 million/5-year international research grant, sponsored by the European community, that addresses the environmental impact of braking. The principal investigator, Dr. Vaclav Roubicek, collaborated with Dr. Peter Filip, CAFS Director, for more than ten years, and this is their third large project. As a result of this collaborative effort, a Memorandum of Understanding was signed between SIU and the Technical University of Ostrava. An intensive exchange of international students working in Mechanical Engineering and Materials Science Engineering has occurred over the past ten years. A “Dual Degree Program” agreement was signed between the Department of Electrical Engineering in the College of Engineering and the corresponding Electrical Engineering unit in Ostrava, Czech Republic.

The Center for Advanced Friction Studies (CAFS) is working with three of twelve Formula 1 (F1) racing teams and is participating in the development and selection of high-tech materials. CAFS is also working with two major manufacturers of aircraft brakes: Honeywell Aircraft Landing Systems and Aircraft Braking Systems Corporation. Through this collaboration, both of these companies recently introduced new carbon-carbon composite brakes into the market.

CAFS Funding Resources-2006

- State of Illinois, $403,789, 62%
- Industrial Sponsors - Core Research, $122,000, 18%
- Non-core Research, $134,131, 20%
Contact Information

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Mechanical Engineering and Energy Processes
Chair: Dale Wittmer
(618) 536-2396

Mining and Mineral Resources Engineering
Chair: Satya Harpalani
(618) 536-6637

Technology
Chair: Roger Chang
(618) 536-3396

Minority Engineering Program
Director: Ronald Caffey
(618) 536-2463

Center for Advanced Friction Studies
Director: Peter Filip
(618) 453-7932

Materials Technology Center
Director: S.C. (Max) Yen
(618) 536-7526
We hope to see you at the following events...

**College of Engineering**
*Introduction to Engineering*
June 10-12, 2007

**College of Engineering**
*Women’s Introduction to Engineering*
June 18-20, 2007 (Session I)
June 25-27, 2007 (Session II)

**SIUC Open House**
July 20, 2007

**College of Engineering**
*Success Week*
August 15-17 2007

**College of Engineering**
*Open House*
*(for High Schools and Junior Colleges)*
September 14, 2007

**SIUC Fall All-Majors Job Fair**
September 26, 2007

**College of Engineering**
*Dean’s Industrial Advisory Board Meeting*
October 5, 2007

**SIUC Homecoming**
October 6, 2007

**College of Engineering**
*December Commencement*
December 15, 2007

**Engineering Day**
*(for High Schools Teachers and Students)*
February 19, 2008

**College of Engineering**
*Open House*
*(for Transfer Students)*
February 20, 2008

**SIUC’s Spring All-Majors Job Fair**
February 20, 2008

**College of Engineering**
*Annual Banquet*
February 21, 2008

**Engineering Appreciation Day**
*(All College of Engineering Industrial Advisory Board Members)*
Spring 2008 (Date to be announced)

**College of Engineering**
*Honor’s Day*
April 13, 2008

**College of Engineering**
*May Commencement*
May 10, 2008