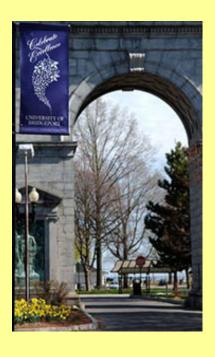


UNIVERSITY OF BRIDGEPORT

School of Engineering

Recent Events and News

Summer 2006



This newsletter may be viewed from our website: www.bridgeport.edu/sed/news/main.htm

Service Awards

Faculty and staff from the School of Engineering were included in the Service Awards this year, held on Thursday, April 6 in the Arnold Bernhard Center Art Gallery.

Honored for ten years of service to the University were Dr. Tarek Sobh and Dr. Ausif Mahmood, Susan Kristie was honored for fifteen years.

Honors Convocation was held on May 5 in the Mertons Theater.

Academic Achievement Awards for the School of Engineering were:

Academic Achievement in Computer Science – B.S. - Wisam Yasen

Academic Achievement in Computer Science – M.S.

Jiancheng Ma

Academic Achievement in Computer Engineering – B.S. - Pranay Chandra

Academic Achievement in Electrical Engineering - Prakash Thapa

Academic Achievement in Mechanical Engineering - Dhananjay Ramaswamy

Academic Achievement in Technology Management – Khalid J. Al-Asali

Dean's Award (U.G.) - Anes Aref

UB's 96th commencement ceremony was held on Saturday, May 6 at Harbor Yard in Bridgeport. Approximately 180 students graduated from the School of Engineering. Anes Aref and Wisam Ziad Yasen graduated Magna cum Laude, and Vishvanie Mahesha Telasingha graduated cum laude.

Congratulations to all of our graduates!

CISSE CONFERENCE 2006

Springer Publishers has been contracted to publish the CISSE Conference Proceeding Books (http://www.cisse2006.org). Springer (http://www.springer.com) is the world's #1 publisher of engineering/scientific books, journals and proceedings.

CISSE 2005 was the first conference in the CISSE series of conferences, and the first Engineering/Computing Research Conference in the world to be completely conducted on-line in real-time via the internet.

CISSE received 255 research paper submissions and the final program included 140 accepted papers, from

more than 45 countries. The presentations, papers and time schedule for live presentations over the web were available for all registrants.

NEW APPOINTMENTS

Professor Khaled Elleithy has been appointed Associate Dean for Graduate Programs in the School of Engineering effective March 20, 2006. In his new role as the Associate Dean, Professor Elleithy will be the coordinating administrator for the School of Engineering graduate programs and joint graduate engineering programs, working collaboratively with the Faculty and administrators in the Schools of Engineering; Business; Education and Human Resources; and the Divisions of Enrollment Management and University Relations.

He will be responsible for the effective delivery of graduate programs in Engineering, including the distance learning and Ph.D. programs.

We are also happy to announce *Professor Gad Selig* has been appointed Director of Technology Management and Joint Graduate Business Degree Programs.

Professor Selig will be the coordinating administrator for the School of Engineering M.S. in Technology Management (TM) degree program and the joint graduate business degree programs, working collaboratively with the Faculty and administrators in the Schools of Engineering, Business, Education and Human Resources, and the Divisions of Enrollment Management and University Relations.

Professor Selig will be responsible for the effective delivery of graduate programs in Technology Management and joint graduate (inter-school) business degree programs. Dr. Selig will continue to teach courses in the Schools of Business and Engineering.

Dr. Jeongkyu Lee of the University of Texas at Arlington has accepted our offer to join us as an Assistant Professor of Computer Science and Engineering Starting Fall 2006.

Dr. Elif Kongar of Yale University will be joining us as an Assistant Professor of Technology Management and Mechanical Engineering in the Fall.

Faculty News

Dr. Joyce Hu, (M.E.) has been chosen to participate in the 2006 Team for Research in Ubiquitous Secure Technology's Women's Institute for Summer Enrichment, which will be held at the University of

California, Berkeley campus in July. She will also receive a fellowship to attend the program.

Dr. Khaled Elleithy was recently appointed Chairman of the IEEE Communications Society (COMSOC), Connecticut section. The Communications Society is comprised of a diverse group of professionals with a common interest in advancing all communications technologies.

The Society sponsors publications, conferences, educational programs, local activities, and technical committees that:

- Foster original work in all aspects of communications science, engineering, and technology
- Encourage the development of applications that use signals to transfer voice, data, image, and/or video information between locations
- Promote the theory and use of systems involving all types of terminals, computers, and information processors; all pertinent systems and operations that facilitate transfer; all transmission media; switched and unswitched networks; and network layouts, protocols, architectures, and implementations
- Advance developments toward meeting new market demands in systems, products, and technologies such as personal communications services, multimedia communications systems, enterprise networks, and optical communications systems.

Dr. Stephen Perle, Adjunct Professor of Mechanical Engineering and a Professor of Clinical Sciences in the College of Chiropractic, presented a paper at the ACC-RAC 2006. This conference is jointly sponsored by the Bureau of Health Professions of the U.S. Health Resources and Services Administration, the Association of Chiropractic Colleges, the Palmer Center for Chiropractic Research at Palmer College of Chiropractic, and Cleveland Chiropractic College.

Dr. Perle's study conducted with his colleague Dr. Greg Kawchuk, Assistant Professor Faculty of Rehabilitation Medicine, University of Alberta was titled "The Effect of Line of Drive on Vertebral Acceleration." The study was a biomechanical study of the effect of changing the angles of force application on the spine of a pig on the acceleration of the spinal segments.

Dr. Lawrence Hmurcik, professor and chair of Electrical Engineering, recently worked as a consultant for Connecticut Analytical Corp., Bethany, CT. They are developing a heart pacemaker that requires no battery. The new pacemaker receives

power from electricity generated by the body's own electrochemistry.

Professor Hmurcik reduced the power consumed by the pacemaker to 25% of its original power consumption. With further development the new pacemaker's power consumption will be reduced to 10%. Thus, it would be a good candidate for one time implantation into the very frailest of persons, whose blood chemistry would support only the smallest power draw by the device.

Additionally, Dr. Hmurcik has recently reviewed a manuscript entitled: ""A Compact Equivalent Circuit for the Dark Current-Voltage Characteristics of Non-Ideal Solar Cells" for the Journal of Applied Physics.

Dr. Xingguo Xiong, Electrical Engineering professor, and his co-authors, Yu-Liang Wu and Wen Ben Jone, have submitted a paper entitled "Reliability Analysis of Self-Repairable MEMS Accelerometer" to the 21st IEEE International Symposium on Defect and Fault Tolerance in VLSI Systems (DFT'06). The conference date is October 4-6, 2006, at the Hilton Arlington & Towers, in Arlington/Washington DC.

Professor Abhilasha Tibrewal has recently submitted an application to the NACME Block Grant Program. The National Action Council for Minorities in Engineering (NACME) solicits proposals from U.S. universities with accredited engineering programs. The program provides financial support to more than 1,000 scholars. NACME will grant selected academic institutions awards over a period of five years for scholarships to underrepresented minority engineering students.

Professor Lawrence Hmurcik (Electrical Engineering) and Professor Mark Mattie (Naturopathy) recently worked together on an accident case involving an electrocution in Watertown. A man repairing a large air compressor at the Siemon Corp. was electrocuted. Dr. Hmurcik and Dr. Mattie were able to reconstruct the accident by figuring out the power distribution in all of the machines and fixtures in the vicinity and by studying the pathology of the deceased.

Three UB graduate teams – one from the School of Engineering and two from the School of Business were selected as finalists to present their business plans in the 2006 CT Business Plan competition.

The final presentations were held on Friday, April 21 at the New Haven Lawn Club. There were two graduate categories - a winning team in each category was selected and won \$2,500 each. *Dr. Gad Selig*

(School of Business) was the advisor to all three UB teams.

UB teams competed against teams from Yale, Sacred Heart, Quinnipiac, UCONN, Eastern CT, Western CT, etc.

UB finalists in the 2006 CT Business Plan Competition were: Graduate School of Engineering: TM 508 - Marketing of Technology Based Products: *Sarosh Patel and Ravish Shah*. They placed third, winning for their plan for developing and marketing a vegetable food tester.

Subrina Thompson (Computer Science) has been nominated as a National Collegiate Engineering Award Winner.

Abdelrahman Elleithy, 3rd year Computer Engineering, was selected to spend 10 weeks in Summer 2006 in the New Jersey Institute of Technology for the Biomems Summer Bioengineering Institute.

Abdelrahman was selected from a large pool of graduate/undergraduate students who apply to this program nationwide. This program is sponsored by the <u>National Science Foundation</u> and the <u>National Institute of Health</u>, the <u>Biomedical Engineering department</u> at the New Jersey Institute of Technology.

The BioMEMS research for this program is structured into three components:

- Via experience in the host biomedical research laboratory, a thorough understanding of a biomedical problem that could be addressed by a BioMEMS device is established.
- 2. Design and construct a BioMEMS device that could tackle the specified problem.
- 3. Test the performance of a BioMEMS device in its intended biomedical application.

By the end of this program, Abdelrahman will have participated in a project to produce one silicon wafer with BioMEMS devices on it ready to be tested.

Abdelrahman participated in a similar program in Summer 2005, where he spent 10 weeks in NJIT where he designed a device for DNA Filtration using Biomems.

Anes Aref has been accepted into the doctoral program at the University of Tennessee. He has been awarded a fellowship to attend. Anes has also received a Department of Energy grant to work at Oakridge National Lab.

Graduate News

Murugabiran Jayapal, (M.S., E.E., 2004) has recently moved to Puerto Rico, and is working for Cingular Wireless as an RF Design Engineer.

Srekanth Middela (2005 MSEE), is working for ZS Associates in Princeton, NJ. The firm is a pharmaceutical company, and he is in charge of the statistical analysis of raw data, pertaining to the drugs they handle.

Sudha Balla, (M.S./C.S.,2002) is currently in the PhD program at UConn, Storrs, expecting to graduate in May 2007. His research work is in the domain of Bioinformatics, designing novel algorithms for motif discovery problems in bio-sequence datasets.

Kerry Quick, (M.S./E.E., 1971) is working as project manager for Honeywell in Colorado Springs, Colorado.

Ganesh Murthy, (M.S./E.E., 2001) is working as a troubleshooter, for IT&E, Springfield, JJ, testing machines used in the Chemical analysis of materials (for example: liquid chromatographs or chemical spectrometers).

Sagar Karki (M.S./E.E. 2003) is currently working as a Failure Analysis Engineer of the Mixed Signal Automated group of Texas Instruments, Dallas, TX. Mr. Karki has recently completed his preliminary work for the Ph.D. degree. Although his job is full-time, he will continue his pursuit of his Ph.D. by incorporating his work at Texas Instruments into his Ph.D. dissertation.

Soumen Chatterjee (M.S./E.E., 2006) is working Universal Technologies Inc. in Stamford. Mr. Chatterjee is in sales for SAP (System Analyst and Product) software.

Graduates from the School of Engineering are encouraged to contact us – Let us know where you are, what you are doing, etc. Please contact Susan Kristie: kristie@bridgeport.edu

We couldn't do this newsletter without you!

Have a wonderful summer!

We look forward to seeing you in the Fall.
