


# seas news

 School of Engineering and Applied Sciences  
University at Buffalo The State University of New York

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## EDS Gives SEAS \$53 Million Gift

### Gift is largest recorded in UB history

Electronic Data Systems (EDS), the world's largest independent information technology services company, gave a software donation valued at \$53.5 million to SEAS as part of UB's "The Campaign for UB: Generation to Generation." The EDS gift pushed the university's campaign over its goal of \$250 million. The largest gift in UB history, the state-of-the-art software will allow engineering students to conceive, design, engineer and validate products using the same tools used by today's leading global manufacturing companies worldwide.

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UB President William Greiner, Hulas King, EDS Director of Global Strategic Partnerships, Venkat Krovi, Asst. Professor MAE, Dean Mark Karwan

## McLernons Honored for Giving



Dean Mark Karwan, James McLernon, Jeremy Jacobs Sr. Honorary Co-Chairman, Generation to Generation Campaign, UB President William Greiner

**James W. McLernon**, B.S. IE '50, and his late wife, Nancy A. McLernon, were honored for their extraordinary support of the School of Engineering and Applied Sciences in a ceremony this fall that included the dedication of a kiosk in their honor. McLernon, retired chairman of the board of American Axle, pledged gifts to SEAS, bringing his total giving to UB during the "The Campaign for UB: Generation to Generation" to more than \$1 million. The gifts will support the school's Student Excellence Initiatives and its graduate and undergraduate laboratories.

McLernon also has served as chair of the SEAS campaign committee, as well as on the execu-

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## John B. Simpson Becomes Next President of UB



John B. Simpson takes office effective January 1 as UB's 14th president. He promises to push an agenda that leaves no doubt that UB "is the premier public research university in the Northeast."

Simpson comes to UB with a distinguished 30-year career in higher education as a faculty member, researcher, and administrator.

Most recently, he was provost and executive vice chancellor at the University of California, Santa Cruz as the campus grew from less than 11,000 students to its present size of nearly 15,000 students. During that time, he instituted a number of new graduate programs, among them programs in digital arts and news media, bioinformatics, electrical engineering, politics and an innovative doctoral degree in education with San Jose State University.

Prior to joining UC Santa Cruz in 1998, he had a 23-year teaching, research and administrative career at the University of Washington in Seattle, where he served as dean of the College of Arts and Sciences from 1994-98. A native Californian and graduate of the University of California, Santa Barbara, Simpson received master's and doctoral degrees in neurobiology and behavior from Northwestern University.

Professor William Greiner, UB's 13th President, served the university since 1991 in this role and will return to the law faculty. He has been lauded for enriching student life, improving research, and expanding UB's physical facilities. During his tenure, he oversaw

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## Generation to Generation Campaign Achieves Goal

The Campaign for UB, Generation to Generation, ended in fanfare with the University reaching and surpassing its \$250 million goal. The final tally put the campaign at \$291,602,262, smashing its goal by over \$41 million. The School of Engineering and Applied Sciences was a major part of that success and once again showed that we are truly one of the leadership schools of the University at Buffalo.

The University's \$250 million goal was the sum of the goals of all the various academic and other university units. SEAS' portion was \$18 million.

In the final year of the campaign, it looked like we were going to surpass our goal comfortably when an unexpected and much appreciated gift from EDS came in that was valued at \$53+ million. This not only blew away our campaign goal, but also put the entire university's goal over the top. This package of high-end, state-of-the-art computer aided design/manufacturing/engineering (CAx) software will change the way we teach some of our engineers. We hope to leverage this software gift with other corporate friends who are interested in our students being trained in this area.

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# ALUMNI NEWS



## Dear SEAS Alumni,

I am pleased to continue into 2004 as your UB Engineering Alumni Association (EAA) president.

Your EAA has been active this past semester with students and alumni in many fun-filled events. We began this fall by co-sponsoring the student picnic in September as the new school year kicked off - there were good times, hotdogs and soda.

We continued our tradition of the annual UB Bulls Football pre-game tailgate this fall for SEAS alumni, students, faculty, staff, and friends to support their UB Bulls. On September 27th we had a partial rain-out but alumni and students braved the elements for hot dogs, soda and EAA promotional items, and of course the football game, were enjoyed by all.

Events we are lining up for Spring 2004 semester include:

EAA at UB Basketball (Saturday, February 14; double header: UB Women @ 1 PM/UB Men @ 3 PM; \$5/ticket)

Co-sponsoring the SEAS Scholarship Reception awards presentation (Friday March 26, 7 PM)

Order of the Engineer/EAA Engineer of the Year (Monday, April 26)

Co-sponsoring the 2004 spring student picnic (TBA)

With regards to the Engineer of the Year award, the EAA is looking for an outstanding UB engineer who deserves a high level of recognition. EAA is seeking nominations for the 2004 Engineer of the year. Just send us a resume, and a brief write-up about the person's outstanding contributions to the engineering profession, public welfare and humanity. Submit nominations to the EAA Award Committee by January 30, 2004 to the UBEEA for presentation of the award at the Order of the Engineer Ring Ceremony on April 26, 2004. The winner will receive a Buffalo Trophy and have their name placed on a plaque in the SEAS Dean's Office, External Affairs, 415 Bonner Hall, UB Amherst Campus. Please email or send hard copy of nominations to:

School of Engineering and Applied Sciences, UBEEA; ATTN: Engineer of the Year Committee, 415 Bonner Hall, University at Buffalo, Amherst, New York 14260, Ub-[ea@eng.buffalo.edu](mailto:ea@eng.buffalo.edu)

Alumni time and financial resources make our programs go. Please help us make the remainder of this school year a success. I ask you to:

Join us as a paying member of your EAA for 2004 - your dues go towards sponsoring events and assisting SEAS student clubs.

Help us help current students by contributing to our special scholarship fund.

Come to our events.

The bad news is that our overall numbers for membership and the Board of Directors continues to dwindle. The EAA requires its past membership to renew their past commitments and support; the Board requires a rejuvenation to continue its missions. We extend an invitation to all UBEEA to join us in accomplishing our programs. We also invite you to review the EAA program posted on our Home Page: <http://www.eng.buffalo.edu/Alumni/EAA/index.html>

If you are interested in joining the Board, please contact us at [ea@eng.buffalo.edu](mailto:ub-<a href=) with a short resume addressing your engineering field and interest in joining the Board. Current EAA Board members will review all applications submitted, and new members will receive an invitation to join us as soon as they are able. Our Board requires diversity and this invitation is open to all - please consider donating your time to make our UB and EAA stronger and more effective.

Together, we can make a positive contribution to our School and enjoy our UB.

Yours truly,

Stephen J. Golyski, P.E., CIE BS '73, MS '81

UBEEA President

## EAA Board of Directors

### Officers

Stephen J. Golyski, P.E.,  
President

Stephen P. Buechi, Treasurer

### Committee Chairs/ Members

Walter Bratek

James D. Boyle

Craig M. Forget, P.E.

John J. Jondle

Antoni Markut

Michelle Rhodes

Richard Rink

### Student Representative

Malati Patil, President  
Engineering Clubs Council

### Founding Faculty Advisor

Howard E. Strauss

### Member Emeritus

Jonathan E. Kolber

### Coordinator Emeritus

William W. Swenson, P.E.

### SEAS Liaison

Robert E. Barnes

See calendar on last  
page for upcoming  
events.

## Spring 2004 EngiNet™ Offerings

### Civil, Structural and Environmental Engineering

CIE 525 Concrete Structures  
CIE 529 Pavement Design  
CIE 531 Design and Construction of Earth Structures  
CIE 543 Water Quality Modeling  
CIE 597 Construction Safety and Health Management  
CIE 617 Advanced Finite Element Methods  
CIE 619 Structural Dynamics of Earthquake Engineering II

### Computer Science and Engineering

CSE 505 Programming System Fundamentals  
CSE 543 Language Processors  
CSE 563 Knowledge Representation  
CSE 587 Information Structures

### Electrical Engineering

EE 519 Industrial Control Systems  
EE 529 Introduction to Electromagnetic Compatibility  
EE 540 Energy Conservation in Motor Drive Systems

### Engineering and Applied Sciences

EAS 522 Principles of Engineering Management II  
EAS 580 Technical Communications for Engineers  
EAS 583 Engineering Procedural Writing  
EAS 590 Case Studies in Engineering Management

### Industrial Engineering

IE 504 Facilities Design  
IE 507 Design and Analysis of Experiments I  
IE 530 Introduction to Human Factors  
IE 533 Sociotechnical Systems (Job Automation and Design)  
IE 541 Human Factors in Safety

### Mechanical and Aerospace Engineering

MAE 510 Fuel Cell Technology  
MAE 529 Finite Element Structural Analysis  
MAE 542 Engineering Applications of Computational Fluid Dynamics  
MAE 543 Continuous Control System  
MAE 549 Design of Complex Engineering Systems  
MAE 552 Heuristic Optimization

EngiNet™ is principally a graduate-level distance learning program. For more information, contact **Marge Hewlett**, EngiNet™ Administrator at the School of Engineering and Applied Sciences: 716/645-2768 x1106 or [enginnet@eng.buffalo.edu](mailto:enginnet@eng.buffalo.edu)

All courses are subject to satisfactory enrollment.

## 50 Year Reunion

SEAS alumni from the years of '52, '53, and '54 gathered in June to celebrate their 50th anniversary of receiving their degrees. Joining Dean Karwan in the festivities were:



**William Atkins** BS EE '52, **Gordon Fisher** BS ME '52, **Harry Guildford** BS ME '52 (with wife Marie), **Louis Motyka** BS ME '53, **Richard Ratajczak** BS EE '52, MS '63 (with wife Delores), **Dr. Jerry Repetski** BS ME '52, MS '62, PhD '70, **Robert Schiffhauer** BS IE '52, MBA '66 (with wife Rita), **Ray Schneider** BS EE '53, **Albert Seames** BS ME '53 (with wife Doris), **Howard Strauss** MS ME '54, **John Tripi** BS ME '53, **Albert Walck** BS ME '53, **Walter Wolentarski Jr.** BS ME '53 (with wife Patricia).

### Class Notes

Boise State Alumni Association names **Salman Akram**, MS EE '89, who earned an MBA from Boise State in 1999 as a Distinguished Alumnus. Akram is an inventor with more than 370 U.S. patents for new innovations and technologies. He also held the title of No. 1 inventor at Micron and for Idaho at large for the years 1998 through 2002. Employed by Micron Technology since 1993, Akram has completed various research and development projects in the fabrication and design of DRAM chips (dynamic random access memory).

**Basil Badawiyeh**, BS EE '97, was named 2004 Young Engineer of the Year award, sponsored by Pace Micro Technology, Multichannel News and the Society of Cable Telecommunications Engineers (SCTE) to annually recognize an engineering professional under age 30 for his or her outstanding contributions to the cable telecommunications industry. A video systems engineer, Badawiyeh earned the award for his success in leading Adelphia to advance new technologies that better served their customers.

Under the presidency of **Mark A. Corio**, BS EE '83, Rochester Microsystems, Inc. was recently recognized as one of Inc. Magazine's Top 500 fastest growing private companies in the USA.

**Thomas J. Crowe**, BS '93, MS ME '95 completed UB's Executive MBA program in June '03. He has been implementing a Six Sigma Quality program for Praxair Inc. and is currently a Staff Engineer, Six Sigma Black Belt.

**Aris Docoslis**, MS CE '99, Ph.D. 2000, Assistant Professor of Chemical Engineering at Queen's University has been awarded a prestigious Canada Research Chair, which is equivalent to an NSF CAREER Award for Canadian Junior Faculty. At Queen's, his research focuses on developing methods and designing tools to manipulate and organize nanoparticles, using electric fields. The creation of these microstructures could lead to new advances in fuel cell technology as an alternative energy source, as well as the development of safer, less expensive automobiles and more sensitive medical and diagnostic devices.

**Robert M. Okello**, Ph.D. IE 1978, writes that since graduating he has moved from Engineering, Carborundum Co. in Niagara Falls, 1975-78, to Corporate Finance, Kennecott Copper Company in NYC and Stamford, CT, 1978-1981, to Corporate Planning, AT&T, 1981-1985, and on to Africa with the United Nations since 1985. At the UN he has been involved in development of regional transport and communications networks with the UN Economic Commission for Africa based in Addis Ababa, Ethiopia (1985-1997), then in promoting policies for regional cooperation and integration in Southern Africa based in Lusaka, Zambia (1997-2003). He is back to the Headquarters of the Economic Commission for Africa in Addis Ababa as director of the Office for Policy and Programme Coordination.

# Alumni Football Festivities

Alumni, students, and faculty/staff joined together this fall for two celebrations in support of the UB Bulls football team. At the Bulls' September 27th match against Akron, the Engineering Alumni Association hosted their Traditional Tailgate, featuring hotdogs, gifts, and fun before the game. Just three weeks later, the UB Alumni Association hosted a pre-game tent party, supported by SEAS, before the Bulls' Homecoming match against Marshall.



John Jondle\*, Don Noell, Ralph Porter, Nancy Porter, Donna Noell



Jim Boyle\*, Peter Buechi\*, Steve Buechi\*



Tim and Alexa Siderakis

\*SEAS Alumni



Rick Rink\*, Jon Kolber\*



Mike Madonia



SEAS freshman Joe M. Desimone with father Ernest.

## Know An Outstanding Engineer Who Deserves Recognition?

Please let us know! The UB Engineering Alumni Association is seeking nominations for the 2004 Engineer of the Year. Just send us a resume, and a brief write-up about the person's outstanding contributions to the engineering profession, the public welfare, and/or human kind.

Submit nominations to the UB Engineering Alumni Association Award Committee by **January 30, 2004** for presentation of the award at the Order of the Engineer Ring Ceremony in April 2004. The winner will receive a Buffalo Trophy, and have his/her name placed on a plaque in the SEAS Dean's Office, External Affairs, 415 Bonner Hall, UB Amherst Campus.

Please send nominations to:  
The University at Buffalo  
Engineering Alumni Association (UBEAA)  
415 Bonner Hall  
University at Buffalo  
Buffalo, NY 14260

Or, e-mail nominations to:  
ub-aaa@eng.buffalo.edu



## Alumni Obituaries & Death Notices

**David A. Baumler**, BS AE '81, in his La Plata, Maryland home after a brief illness. He served as an aerospace engineer for the U.S. Naval Surface Warfare Center at Indian Head, Maryland, for more than 20 years. He is survived by his wife Barbara, his parents, Edward G. and Phyllis, two sons, a daughter, a brother, and a sister.

Also recently deceased are: **Eugene M. Bellagamba**, BS ME '49, **A. F. Brayman Jr.**, BS ME '65, **Kenneth C. Doncaster**, BS ME '89, **Ralph H. Freiert**, BS CIE '77, **Paul E. Kolb**, BS ME '50, **Bryan C. Mihalick**, MS CE '01, **Gregory C. Reming**, BS CIE '72, and **Mark C. Wojcik**, BS CE '78.

Friends of the school who have recently passed away include: Mr. Sidney Beldon, Mr. Gerald Hahn, Mrs. Roberta Shuman, Mr. Robert Weiner.

# STUDENT NEWS

## Opening Day Events

At SEAS' fifth annual Opening Day event, more than 300 of the school's entering freshmen were welcomed to campus with a packed day that included meeting other entering students, faculty members, engineering student leaders. During the day, they witnessed a choreographed indoor kiting demonstration before each lab-group unit had a short time to cooperatively design, fabricate, and demonstrate a functional indoor kite from a given kit of materials. The connections established here continue into the semester as the groups continue together into their first semester labs.



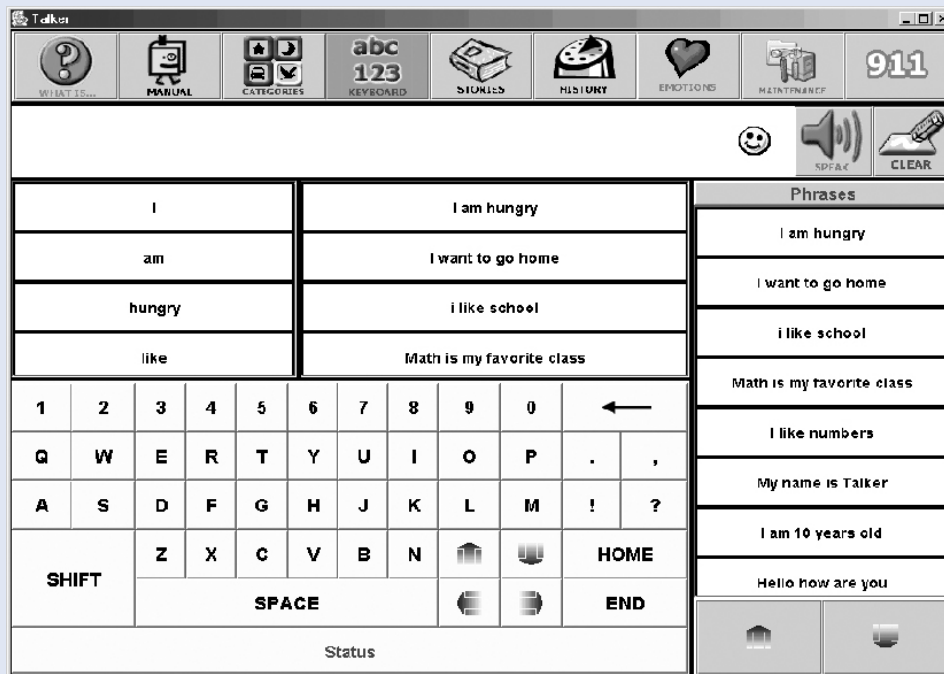
## Tech Job Fair

UB's 2003 Tech Job Fair offered excellent opportunities for current students to meet with prospective employers. Those interested in employing or providing internships for current students can contact Dean Millar at (716) 645-2768, ext. 1112 or via email, [dcmillar@eng.buffalo.edu](mailto:dcmillar@eng.buffalo.edu).



**UB alumni and current National Grid employees Sean Kiggins (BS EE '03) and Mark Domino (BS EE '91, MBA '96) smile with current student Kelly Filipowski.**

## UB Talker Provides Independence



Students in an upper-level computer software engineering class helped to solve a real-world problem—and restored a sense of independence to persons with speech and motor disabilities—by designing augmentation communication devices. The students have produced UB Talker, a laptop computer with a touch-screen interface that helps its users communicate. UB Talker comes in models for both adults and children.

The ongoing project began in March 2002 when seniors were asked by **Kris Schindler** and **Mike Buckley**, lecturers in the Department of Computer Science and Engineering, to design a speech-enhanced, computer-aided device that would allow a 43-year-old nursing home resident who had suffered a stroke 20 years ago to communicate.

"In the spring of 2003, we reassigned the project with new requirements to meet the needs of children with cerebral palsy—both those with and without reading skills. Students responded with interest, commitment, intensity and philanthropy," said Buckley.

# Solar Splash

At the 10th annual Solar Splash World Championship on Hoyt Lake in Delaware Park, Blue Moon (right), skippered by **Justin Francino**, MAE junior from Huntington, finished second in its heat in the sprint competition. UB's other Solar Splash entry, Bullship (left), was skippered by **John Fritz**, MAE graduate student from Conesus.



## First International EngiNet™ Grad Student Completes Degree



Recently, **Jose Lockhart** successfully defended his master's thesis, magnetic damping, in the department of Civil, Structural and Environmental Engineering. Jose completed all his required coursework via the SEAS's graduate distance learning program, EngiNet™. His lectures and assignments were mailed to his home in the Dominican Republic. Jose is the first internationally based SEAS graduate student to have completed his degree via distance learning.

Newest EngiNet™ degree recipient with Andrew Whittaker, CSEE associate professor



Jose Lockhart center with, left to right: Gary Dargush, CSEE professor, son, Dean Karwan, Stuart Chen, CSEE associate professor.

## MCEER (cont. from 8)

succeeds **George C. Lee**, Samuel P. Capen Professor of Engineering at UB, who will continue to serve leadership roles within MCEER and SEAS. **Dean Mark Karwan** said Bruneau's appointment "assures that MCEER will build upon the reputation for excellence that George Lee worked so hard to establish."

Filiatrault, formerly a professor of structural engineering at the University of California-San Diego, will be responsible for coordinating MCEER's nationwide research program in advanced technology applications. He also has been appointed professor of civil, structural and environmental engineering.

Lee, who served as MCEER director since 1992, will administer the center's \$10.8 million Federal Highway Administration project to improve highway-system seismic performance and reliability, and he will work to develop a school-wide focus on multiple-hazard mitigation. Lee served as dean of SEAS from 1977-95.

## Student News

Junior ME student **Adam Bienas** of Lockport, NY took leave earlier this year from his schooling as he and his fellow reservists joined the Marines in the Bravo Company, 8th Tank Battalion, 4th Marine Division in their trek from Kuwait to the Baghdad area. He has now rejoined his MAE classmates.

**Nagarajan Kannan**, Ph.D. student CSEE, was elected president of the northeastern region of the National Association of Graduate Professional Students, an organization representing the more than two million graduate and professional students in the United States.

Out of 20 international participants, **Mohammed Soliman**, EE Ph.D. student, won third prize in the Student Poster Session's Ph.D. group at the IEEE-PES meeting in Toronto for his poster on the My-T Acres Farm Project.

## Engineering Clubs Extravaganza

Rocket launches, gooey gak, fire fighting robots, and bubbling ice cream were the highlights of the second annual Engineering Extravaganza held in the Student Union Lobby. Nine UB engineering clubs designed various interactive exhibits as basic introductions for participants of all ages into each club's respective field of expertise. One of the most popular demonstrations was UB Robotics' firefighter robot that autonomously sought out and extinguished a candle hidden in a maze. The club that made (quite literally) the loudest bang of all the clubs was the American Institute of Aeronautics and Astronautics, whose rocket launching demonstration drew many spectators.

## Student Mourned

**Khoi Viet Hoang**, a senior in MAE, was tragically killed in a motorcycle accident on the Kensington Expressway on August 28, 2003.































