

FACULTY NEWS

James Campbell, '92, and his wife Kim, had a boy, Zachary James, born June 23, 1998. Campbell works for Integrated Machinery Systems in Itasca, Ill. The Campbells recently bought a house in Carol Stream.

Daniel Czicz, '92, and Kristin Carnes were married on September 20, 1997, in Kenosha, Wis. Czicz is working toward a doctorate in geophysical science at the University of Chicago.

Shirley J. Dyke, '91, attended a ceremony at the White House on February 10, 1999, to receive the 1998 Presidential Early Career Award for Scientists and Engineers (PECASE). She was 1 of only 20 to receive this distinguished award, given annually by the National Science Foundation across the divisions of science and engineering. Dyke, who is currently an assistant professor in civil engineering at Washington University in St. Louis, also received AAE's Outstanding Recent Alumna award in 1998 (see related story in this issue).

Christopher Giganti, '97, is a systems engineer with AlliedSignal Inc. Defense and Space Systems in Teterboro, N.J. He is working as a systems analyst on flight control software for the Lockheed Martin X-33 VentureStar program. Giganti is also working toward a master's degree in computer engineering at the Stevens Institute of Technology, Hoboken.

Brian J. Goszkowicz, '90, graduated recently from the U.S. Navy Test Pilot School at Naval Air Station, Patuxent River, Md., after an 11-month course. Goszkowicz, a lieutenant, joined the navy in May 1990.

George Gunning, '91, MS '92, completed his U.S. Air Force tour in 1998 and is now employed as a senior systems engineer at Raytheon Systems Corporation in Denver, Colo. He is working on the Eclipse satellite command and

The American Society of Civil Engineers will honor **Lawrence Bergman** with its 1999 Norman Medal for his paper "Structural Control: Past, Present, Future," which appeared in the *Journal of Engineering Mechanics* in September 1997. Bergman will receive the award in October, during the society's annual convention in Charlotte, N.C.

John Buckmaster was recently elected as a fellow and chartered physicist to the Institute of Physics (IOP) in recognition of his status in the physics community and his contributions to the institute as a member of an editorial board. The IOP, an international learned society and professional body, seeks to advance and disseminate physics, pure and applied, and to promote physics education.

Rodney Burton and **Bruce Conway** were named to "An Incomplete List of Teachers Ranked as Excellent by Their Students" for spring 1999. The rankings are based on data collected in fall 1998. **Victoria Coverstone-Carroll** was named to the list for fall 1998, based on data collected in spring 1998. Coverstone-Carroll was also named to the spring 1998 list, along with **Philippe Geubelle**.

David Carroll and **Victoria Coverstone-Carroll** ('85, MS '86, PhD '92 for both) became the proud parents of their second child, Annette Nicole, on February 11, 1999. "Annie" weighed 7 lb 2 oz and joins big sister Katherine Margaret.

Victoria Coverstone-Carroll and graduate student **Bill Hartmann** ('96, MS '99) attended the AAS/AIAA Spaceflight Mechanics meeting in Monterey, Calif., in February 1998, where Hartmann delivered their paper. John Prussing had two of his papers presented in absentia. Alumni who also attended the meeting were **Bob Farquhar** ('59; Applied Physics Laboratory, Johns Hopkins University, Md.), **Alan Hope** ('89, MS '91; Naval Research Lab, Va.), and **Mark Guman** (MS '92; Jet Propulsion Lab, Calif.).

Philippe Geubelle recently received the National Science Foundation's Faculty Early Career Development Award, which will support, over the next four years, a research project dedicated to the analytical investigation of high-speed grinding of structural ceramics. The CAREER awards, as they are known, are given to support college and junior faculty who are committed to the integration of research and education. Geubelle was 1 of 12 recipients from the Urbana-Champaign campus, which had the distinction of winning the most awards of any campus in the nation. He also received one of three 1999 College of Engineering Xerox Awards for Faculty Research for Assistant Professors, which honors a junior professor in engineering for outstanding research, based on one year of research accomplishments. The award was presented at the College of Engineering's convocation program on April 16, 1999.

Geubelle and his wife, Nancy, became "elated" parents for a second time with the birth of their son, Alexandre, at 11:00 p.m. on May 11, 1999. Alexandre weighed 7 lb 15 oz and was 20.5 inches long. He joins his sister, Caroline, at home.

Harry Hilton is the Charles E. Schmidt Distinguished Visiting Professor at Florida Atlantic University for 1999. He is also the senior academic lead for computational structural mechanics for the National Center for Supercomputing Applications.

Ki Dong Lee received a Special Service Award in April 1998 from the national AIAA for his years of service as chairman of the Illinois section. A plaque was presented to him at an AIAA student branch meeting by John Prussing, treasurer of the Illinois section.

Professor Emeritus **Y. K. "Mike" Lin** received the Theodore von Karman Medal in October 1998 from the American Society of Civil Engineers. He was a member of the AAE faculty from 1960 to 1984. This is his second national honor from the society; in 1984 he was awarded the Alfred M. Freudenthal Medal for distinguished contributions to stochastic structural dynamics. Currently, Lin is the Charles E. Schmidt Eminent Scholar Chair in Engineering and director of the Center for Applied Stochastic Research at Florida Atlantic University, Boca Raton.



Y. K. "Mike" Lin

John Prussing and **Victoria Coverstone-Carroll** and graduate student **Bill Mason** ('96) attended the AIAA/AAS Astrodynamics Specialist Conference in Boston, Mass., in August 1998. Other conferences meeting at the same location were AIAA Atmosphere Flight Mechanics, AIAA Guidance, Navigation, and Control, and AIAA Modeling and Simulation Technologies. Alumni in attendance were **Chris D'Souza** ('83, MS '84; C. S. Draper Laboratory, Cambridge, Mass.), **Jinho Kim** (PhD '91; Inha University, Korea), **Robert Farquhar** ('59; Applied Physics Laboratory, Johns Hopkins University), **David Riley** ('77; Boeing-St. Louis), **Der-Ren Taur** (PhD '89; Chung Shan Institute of Science and Technology, Taiwan), **Steve Tragesser** ('92; C. S. Draper Laboratory, Cambridge), **Will Wagner** ('71, MS '73; Boeing-Downey, Calif.), **Dan Young** ('60; Boeing-Huntington Beach, Calif.), **Rudy Yurkovich** ('67, MS '68; Boeing-St. Louis), and **Rich Zelenka** ('87; NASA Ames Research Center).

Michael Selig ('84) and **Victoria Coverstone-Carroll** were promoted to associate professor level in 1998.

Lee Sentman ('58) was awarded the 1999 Plasmadynamics and Lasers award by AIAA for his contributions "to the understanding of the physical properties and dynamical behavior of matter in the plasma state and lasers as related to need in aeronautics and astronautics." Sentman, who is also an AIAA associate fellow, was presented the award on June 29, 1999, at the AIAA's Plasmadynamics and Lasers conference in Norfolk, Va.

Scott White and **John Prussing** received the Engineering Council Award for Excellence in Advising in April 1998. The awards are determined by student votes.

Scott White has received a patent for "corn-based structural composites." Listed as co-inventors are Nancy Sottos (Theoretical and Applied Mechanics) and Tom Mackin (Mechanical and Industrial Engineering). White also received the 1997 Research Product Development Team award from the U.S. Army through CERL (Construction Engineering Research Lab) in Champaign. He was honored for his research on smart materials and structures, which may provide opportunities for early diagnosis and correction of material failures in engineering structures.

control system and uses optimal trajectory algorithms.

Nadya, '91, MS '93, and **Doug Heinrich**, '92, MS '94, are the proud parents of Keersten Ann, who was born on April 30, 1998. The Heinrichs also have a son, Steven. The couple both work for Boeing in St. Louis.

Jang Won Jo, PhD '97, telephoned Professor John Prussing from Korea to report that he enjoys his job very much. His title is private investigator in the intelligence headquarters of the Korean Department of Defense.

Moon-Sang Kim, PhD '91, is an assistant professor in the Department of Aerospace Engineering, Hankuk Aviation University in Kyungkido, Korea.

Melissa Lodgen, '98, of Stoughton, Mass., has been commissioned as a second lieutenant in the U.S. Air Force through the ROTC program.

Michael Misiora, '94, is a space flight and avionics instructor for the Space Station at Johnson Space Center in Houston, Tex. He is also a volunteer firefighter with the rank of captain for Nassau Bay, a Houston suburb. In his spare time, he restores antique firefighting apparatus. Recently, he was back in central Illinois to attend the wedding of fellow alum, **Tom Erkenswick**, '94.

Timothy Morthland, '92, is a visiting assistant professor in the UIUC Department of Mechanical and Industrial Engineering. He also serves as a technical adviser for senior engineering design projects. He conducts research in the thermal fluids and materials processing areas. Morthland and his wife Jennifer have a one-year-old daughter, Sarah.

Matthew Oser, '96, and Danielle Beck were married in August 1998 in Park City, Utah. He is a senior engineer with Boeing, St. Louis.

Gabe Rogers, '96, MS '97, has wrapped up work on software testing for the guidance, navigation, and control system for the

FUSE spacecraft (Far Ultraviolet Spectroscopic Explorer). Currently, he is working on testing software for attitude control of the TIMED (Thermosphere, Ionosphere, Mesosphere Energetics Dynamics) spacecraft. He is attached to the Applied Physics Lab at Johns Hopkins University. Says Rogers: "They say I am a great tester. I cause the system to crash at least once a day." He reports that he and his wife, Lizz, are adjusting to being new homeowners.

Kendra Sharp, '93, and **David Hill**, '93, were married August 16, 1998, in Keystone, Colo. The ceremony was performed by Sharp's father, Rev. Dr. Billy Sharp. Hill is an assistant professor in civil engineering at Penn State University; Sharp is a doctoral student at the University of Illinois Department of Theoretical and Applied Mechanics.

Kelly Sinnock, '98, is employed as an aerodynamics engineer in the Aeromechanics Department at Raytheon in Tucson, Ariz. She is in missile design.

Song Chun-Keet, '97, visited the campus recently. He is currently undergoing T-38 pilot training at Vance AFB, Okla. He is attached to the Singapore Air Force.

Daniel Thunnissen, MS '96, was the speaker at an AAE seminar on October 16, 1998. Thunnissen, a member of the engineering staff at the Jet Propulsion Lab, Pasadena, Calif., gave an overview of the Mars sample return mission. NASA and JPL are committed to returning a sample from the Martian surface to Earth by 2008.

Chad Verhoff, '96, and Dana Wickenhauser were married on July 4, 1998, in Godfrey, Ill. The couple reside in Vero Beach, Fla. Verhoff is a pilot for Atlantic Coastal Airlines.

Sarah (née Ziemer) '90 and **Carl Wassgren**, '90, moved from Clemson, S.C., to West Lafayette, Ind., in 1998 to join Purdue University. He is an assistant professor in mechanical engineering and a member of the fluid mechanics and propulsion group with research interests in granular flows. She made a career change and is working for Purdue's Krannert School of Management as assistant director at the Center for Manufacturing Management.

Theodore Wiessing, '91, and Carla Mae Gerhard were married on November 15, 1997, in Bellevue, Iowa. He is a manager for Andersen Consulting at Telephone and Data Systems in Madison, Wis.

Mark Whitlock, '94, and **Jennifer Phillips**, '95, were married in May 1998 in the formal gardens at Allerton Park, Monticello, Ill. Both Whitlock and Phillips are employed by Boeing at Long Beach, Calif.

Sung Yi, PhD 92, currently senior lecturer and director of the Electronic Packaging Strategic Research Program at Nanyang Technological University, Singapore, has been appointed to the editorial advisory board of the *Journal of Soldering and Surface Mount Technology*.

IN MEMORIAM

Roger E. Gustafson, '50, died October 15, 1998, in Fairborn, Ohio, at the age of 75. Gustafson was an Army Air Corps veteran of World War II. He was a pilot for Eastern Airlines until 1983 and was awarded the Presidential Citation for thwarting a hijacking to Cuba on his regular flight to Florida. He is survived by his brother, Glenn, two uncles, and several cousins, nieces, and nephews.

William Francis Wolz, '60, of Huntington Beach, Calif., died on September 14, 1997, at the age of 60 after a three-year battle with cancer. He was principal director of Systems Engineering and Integration in the Launch Programs division of The Aerospace Corporation's Space Systems Group, a position he assumed in 1993. Before he joined Aerospace in El Segundo in 1966, he was employed by Avco Corporation in Massachusetts. There, among other things, he helped design the heat shield for the Apollo space capsule and also became active in local politics. On October 23, 1997, shortly after his death, the U.S. Air Force and Aerospace dedicated a Titan IVA launch in his memory. A special decal was designed and placed on the rocket, and his wife and family were invited to the launch at Vandenberg AFB, California. Outside of work, Wolz enjoyed boating, saltwater fishing, snorkeling, dog show competition, and chaperoning students on Yosemite field trips. He also enjoyed classical music, opera, photography, and travel. He is survived by his wife Priscilla ('59 LAS), daughter Elizabeth, and sister Mary.

Michael W. Elbl, '72, of Mount Auburn, Ill., died on December 28, 1998, at home. He was 51 years old. Elbl was an engineer for the Illinois Environmental Protection Agency. He was an avid tennis player, nationally ranked in high school, and he played on the U of I tennis team. He also enjoyed hunting and raising reindeer and other animals. Survivors include his wife, Deborah; daughters Amy and Erin; son Joe; his parents, Bill and Betty Elbl of Festus, Mo.; three brothers, and a sister.

Steven Ray "T-Bone" Fredericks, '71, died on July 31, 1998, at his home in Jacksonville, Fla. He was 51. Fredericks was employed as an aerospace engineer for Jacksonville Naval Air Station. He was also an avid NASCAR fan. Survivors include his mother, one son, and two brothers.

William Nusz, '78, was killed when the training jet that he was in collided with an F-16 fighter over Edwards Air Force Base and crashed in the Mojave Desert. The accident occurred on October 22, 1997. Lt. Col. Nusz and his fellow crewman were in a T-38 Talon that was operating as a chase plane on a photographic support mission for a B-1B test bombing run.

PROGRAM Allows Students with Disabilities TO EXPLORE ENGINEERING

Students with disabilities and their parents were invited to the University of Illinois campus in March 1997 to explore the possibilities for studying engineering at the college level.

The weekend-long program, entitled ee!: explore engineering, was first offered in October 1996 and again in March 1997. Nineteen students and 18 parents attended the two workshops, which allowed them to learn more about gaining admittance to degree programs at the university, the campus academic and social environment, research and instruction, and university and college resources for students with disabilities.

AAE Professor Eric Loth and Coordinator of External Relations Diane Jeffers were the project directors for the ee! program. Project PURSUIT, the College of Engineering, and AAE provided funding for this one-time series of workshops. PURSUIT, a project financed by the National Science Foundation and based in the UIUC Division of Rehabilitation Education Services, is a multi-faceted approach toward encouraging students with disabilities to pursue their academic and professional dreams. Particularly



A sign language interpreter enhances communication between students and teachers.

focused on opening doors to careers in math, engineering, computers, and science, PURSUIT projects begin by working at the high school and college levels.

A key component of the ee! program was hands-on opportunities for these high school students, who were able to work on computers, perform experiments, and operate robots in various engineering laboratories on campus. The students and their parents also attended an outreach program called the Physics Van, a mobile demonstration laboratory run by students in the Department of Physics.

Faculty members from UIUC, the University of Illinois at Chicago, Illinois Wesleyan University, Danville Area Community College, and Parkland College spoke about pre-engineering and engineering majors and careers. A state of Illinois rehabilitation counselor discussed financial aid and admissions issues, and staff from the UIUC Division of Rehabilitation Education Services talked about resources available to help college students with disabilities.

Current college students with learning, physical, or sensory disabilities (who are majoring in various engineering disciplines) also spoke with ee! participants. Parents and students were placed in separate groups to give them a chance to ask questions about college life that they may have been uncomfortable asking when all together.

Keynote speakers were a highlight of the Saturday evening dinners. The speaker for October was Jean Driscoll, a seven-time winner of the Boston Marathon and an Olympic medal winner. Tom Jones, former champion athlete and television sports news director, spoke in March. Both of



these individuals have had remarkable successes despite physical disabilities.

Another goal of the program was to inform college and university educators about the issues facing students with disabilities who are interested in science, engineering, or math. Through pre- and post-workshop surveys, students were able to inform educators that although none of them was discouraged from entering engineering, many felt that counselors and teachers suggested other careers and that engineering employers were less likely to hire someone with a disability. Many parents felt that teachers didn't make the extra effort to help students with disabilities and didn't understand the needs of such students. Parents also noted that their children have few role models. An important result of these surveys was finding that students, parents, and schools lacked information about the field of engineering and about preparing students with disabilities for college. On a more positive note, most of the students were more interested in engineering as a result of participating in the workshop.

—by Diane Jeffers,
AAE coordinator of external relations

ALUMNI UPDATE FORM

We would very much like to hear from you, the subjects of our newsletter. Alumni/alumnae, share that news of your new job or promotion, marriage or graduation, or other tidbits that might interest your former professors or classmates. Pictures, on loan or for one-time use, would also be nice. (Slides are preferred but color or black-and-white pictures are also welcome.) Mail, fax or email your news to:

Alison Weingartner, Editor
AAE Alumni Newsletter
306 Talbot Lab
104 South Wright Street
Urbana, IL 61801, USA
fax: 217-244-0720
email: wengrtnr@uiuc.edu

Name (including maiden name) _____ Class year _____

Home address _____

Phone _____ Email _____

Company _____ Title _____

Company address _____

Company phone _____ Company fax _____

Other degrees: date, institution, field _____

Personal news, awards, achievements, other information _____
