
He was preceded in death by his wife of 45 years, Luann (Gibson) Herman. Survivors include his daughters Leslie Herman of Arlington, Texas, and Kathleen Auld of Bellevue, Washington, and three grandchildren. Memorials may be made to the American Diabetes Association or the American Heart Association.

Kazimir “Casey” Joseph Patelski, Jr., '52, died November 14, 2003 in California. He was born January 1, 1928 in Chicago, Illinois, a son of Kazimir Joseph and Cecelia. Patelski began his engineering studies in 1948 at the University of Illinois Extension on Navy Pier and graduated from the university's campus in Urbana in 1952. He was the first in his family to graduate from college.

After graduation, Patelski began his aerospace engineering career with Douglas Aircraft Company. In 1968, he was chosen as the lead engineer to design and staff the Mission Control Center in Houston for the Saturn V moon rocket. Patelski's team was responsible for the rocket systems on all the Apollo moon missions. He and his crew developed system control manuals that are now the standard system in use for all space launches. He and his colleagues received the Presidential Medal of Freedom in 1970 for their accomplishments on the Apollo 13 mission.

In 1972, he became the lead design engineer for Skylab's living and working accommodations. When McDonnell-Douglas' contracts ended after Skylab, Patelski joined Fluor Arabia, eventually becoming vice president of engineering for the company, in charge of building refineries, petrochemical plants, and power stations. Twelve years later, in 1986, he rejoined McDonnell-Douglas as project manager for the commercial and military satellite program. He retired in 1990. He is survived by his wife, Bonnie; and children Casey, Debi, Steve, Teri, Garrett, and Cynthia.

For Alumni...Engineering Career Services has a new online job board that provides free and easy access to view job postings for experienced professionals and alumni to post and submit résumés, to participate in the new alumni mentor program, and to network with other UIUC Engineering alumni. Go to www.uiucengineeringjobs.com.

Scott Pickard, '72, is director for EnterpriseWorks, a technology business incubator at the University of Illinois at Urbana-Champaign. Before joining UIUC, Pickard was president and CEO of ERES Consultants, Inc., an international engineering consulting firm. He will be responsible for facility management and tenant support at EnterpriseWorks. Pickard will work with the university's Office of Technology Management and with IllinoisVENTURES to recruit new tenants to the facility.

Dan Else, '74, works as a specialist in national defense in the Foreign Affairs, Defense and Trade Division of the Congressional Research Service, Library of Congress. He has worked there for four and a half years. He also majored in political science while studying at AE, receiving a bachelor's in 1974. He earned a master's degree in business administration from National University, San Diego, in 1988; a master's in political science from Penn State in 1994, and a master's of philosophy in political science from The George Washington University, Washington, D.C., in 2000. He is currently a doctoral candidate in political science at The George Washington University.

Martin de Wet, '79, MS '82, is the lead system engineer supporting Global Positioning Systems (GPS) III contract activities at Spectrum Astro. He joined Spectrum Astro in 2001 after working at Motorola on the Iridium satellite communications system. Spectrum Astro, located in Arizona, is a subcontractor to Lockheed Martin on the GPS III Phase-A contract. De Wet also reports that in September 2003, he was promoted to the rank of captain in the U.S. Naval Reserve. He is currently the commanding officer of Naval Reserve Unit Naval Air Systems Command 1187.

1980s

Michael Lembeck, '80, MS '81, PhD '91, was a speaker in April 2004 for the department's spring seminar series. Lembeck is director of the requirements division in NASA's Office of Exploration Systems.

Robin (Robinson) Friestad, '87, works as the group leader for design analysis at the John Deere Seeding Group in Moline, Illinois. She came to Deere in 1995 from McDonnell Douglas, which she joined after graduating from Aerospace Engineering. She earned a master's in engineering mechanics from the University of Missouri-Rolla in 1991.

Catherine (Larson) Koerner, '87, MS '89, and her husband, Stephen, are parents for a second time. Their son, Arthur Stephen, was born on April 13, 2004, weighing in at 8 lb 5 oz. The Koerners also have a daughter, Rachel. In March 2004, she became a flight director for the International Space Station. She is one

of eight flight directors who hold the distinction of being a flight director for both the Space Shuttle and the Space Station. Koerner will be one of three flight directors working the shuttle return-to-flight mission.

Gregory Mayer, '87, writes that he has kept in touch with several other AE alumni over the years. They include **Dan** ('86) and **Joe Nelson** ('86), who work for Boeing in St. Louis, and **Rick Zelenka** ('87), also employed by Boeing. Zelenka recently was transferred to work in the Laser and Electro-Optical Systems Group in Hawaii. Mayer was recognized as a Distinguished Alumnus in this year's departmental awards (*see story in this issue*).

Dan Jensen, '88, was upgraded to associate fellow status at AIAA. He is employed at Rolls-Royce in Indianapolis.

Russ Wenzel, '89, MS '91, works with Raytheon in Aurora, Colorado. Fellow alumnus **George Gunning** ('91, MS '92) is a colleague.

1990s

Lee Barnes, '90, is president and chief executive officer of Utopia Solutions in Chicago. The firm specializes in software quality assurance, performance management, automated testing, and test outsourcing. Its consultants work with Fortune 1000 companies that want to improve the way they develop and test software.

Mark Tobias, '90, is supervisor in ballistics and grain design engineering for ATK Thiokol Propulsion. "Our group is responsible for the design and motor performance of the Shuttle RSRMs (reusable solid rocket motors), Shuttle booster separation motors, and Shuttle-derived launch architectures. We also work a great deal with solid propellant formulation, combustion, and production."

Mark Bayer, '91, continues in Aero/Propulsion Test Requirements and Analysis at Boeing Military Aircraft and Missile Systems.

Todd Ashcraft, '92, test flew his home-built airplane in May 2004, after devoting almost seven years to building it. The one-seater, single engine monoplane was built from plans designed by Dan Ryan of Long Beach, California. "It has a 200+ horsepower Lycoming engine that's been modified for aerobatics. The fuselage is welded steel tube, covered in fabric. The wing is wood, covered in very thin plywood and a fiberglass cloth. There are around 25 to 50 of these flying. Mine has quite a few tweaks to the plans, and is admittedly *not* going to win awards for Best Trim and Finish at Oshkosh. But I built everything myself except the fuel tanks, engine mount, landing gear legs, and minor parts."

FACULTY NEWS

Bob Beddini was posthumously awarded the Teacher of the Year award by the student chapter of AIAA at the 2004 Aerospace Engineering awards banquet in April. The students said Beddini's selection was an overwhelming choice. The former AE associate professor died in October 2003. The award was presented to Ann Beddini.

Michael Bragg ('76, MS '77) was reappointed as Aerospace Engineering's department head for another five years. "I fully and enthusiastically concur with the department's recommendation that Prof. Bragg be asked to serve another term as department head," said Dean David Daniel of the College of Engineering. "Prof. Bragg has clearly done an outstanding job in leading the department." Bragg also received the Stanley H. Pierce Award in April 2004 from the College of Engineering. The award is given annually to a faculty member who has done the most to develop empathetic student-faculty cooperation.

In October 2004, Bragg was an instructor for a course at the University of Tennessee Space Institute to help pilots and engineers deal with in-flight icing and its effects on aircraft handling characteristics. The course drew participants from the Canadian safety and certification agencies, the Federal Aviation Administration (FAA), the U.S. Army Aviation Techni-

Michael Misiora, '94, is a cargo integration officer for the Mission Control Center in Houston, Texas. He also continues to work in search and rescue operations with his dog Summer and as a volunteer firefighter.



Alumnus Mike Misiora (left), who works for United Space Alliance (USA), and another USA employee converse with former President George H. Bush at the International Space Station Mission Control Center in February 2003.

Picture by NASA.

cal Test Center at Fort Rucker, Ala., and the Wichita (Kansas) Aircraft Certification Office. The curriculum also employed several subject matter experts from the National Center for Atmospheric Research, Arnold Engineering Development Center's Air Force Icing Tanker, FAA, and NASA. The course will be offered again in May 2005.

John Buckmaster received the Zeldovich Gold Medal at the 30th international symposium of the Combustion Institute, held in Chicago in July 2004. This meeting marked the 50th anniversary of the institute. "This is the premier meeting of the combustion/reactive flow community," said Department Head Mike Bragg. "It is held every two years and awards the medal for outstanding contributions in combustion research. Forman Williams (of the University of California-San Diego's Center for Energy Research) presented the award and cited Buckmaster's most recent work in propellant combustion (with Tom Jackson, of CSAR and an adjunct in AE) in edge-flames and flame balls in particular. John's contributions in these areas have been outstanding, and as clearly indicated by this award, world class...."

Bruce Conway, Gregory Elliott, and John Prussing were ranked as excellent teachers by their students. Conway, Elliott, and Prussing appeared on the *Incomplete List of Teachers* for spring 2004.

Victoria Coverstone ('85, MS '86, PhD '92) went to Capitol Hill on July 22, 2004, when she testified before the Strategic Forces Subcommittee on space professionals. The subcommittee is part of the House Armed Forces Committee. She was one of ten people who appeared before the subcommittee, including commanders from the Air Force, Army, Navy, and the Marine Corps, as well as faculty from various institutions, and an aerospace industry executive. Coverstone told committee members that the pool of talented, domestic students in careers in space are highly motivated individuals, but that they are "severely underutilized" because lack of financial support and pipelines to these careers often divert them from their chosen goal. Faculty member Rod Burton helped Coverstone prepare the opening statement.

In other news, Coverstone and nine other members of the adult women's tennis team advanced to the national tournament for the U.S. Tennis Association (USTA). The team won the USA League Tennis Sectional championship in August in Indianapolis

Mike Kerho, MS '92, PhD '95, was made an associate AIAA fellow recently.

Nashonne Candler Newman, '95, and her husband, Timothy, welcomed their first child, Timothy Candler. Baby Newman was born on March 7, 2004, weighing in at 7 lb 7 oz.

Bill Hartmann, '96, MS '99, his adviser Victoria Coverstone, and John Prussing attended the 14th AAS/AIAA Space Flight Mechanics meeting in Maui, Hawaii, in February 2004. Hartmann presented a paper on his thesis and received a travel award from the AAS. Aerospace Engineering alumni/ae attending were **Lynn Craig** ('00) of the Caltech/NASA Jet Propulsion Lab; **Nancy Ericson** ('86) of the Air Force Space Command; **Alan Hope** ('89, MS '91) of the Naval Research Laboratory; **Ron Lisowski** (PhD '84) of the Air Force Academy; **Steve Tragesser** ('92) of the Air Force Institute of Technology; **Aaron Trask** ('98, MS '00, PhD '02) of the Naval Research Lab, and **Scott Zimmer** ('01) and **Mark Wallace** ('03), both currently studying at the University of Texas at Austin.

Erik Antonsen, '97, MS '01, earned his PhD from the department in 2004. He will continue his studies in the UI Medical Scholars' program on the Urbana campus. He wants to combine his aerospace and medical degrees to study the limitations of radiation exposure on long-term human space flight. Antonsen is also working as a postdoctoral associate in the Department of Nuclear, Plasma and Radiological Engineering.

Todd Cerven, '97, MS '99, and his wife, Marie, welcomed their first child, Alaina Marie, on February 19, 2004. She weighed 8 lb 3 oz. The Cervens brought Alaina to their new home in Manassas, Virginia. Cerven writes that their daughter "...has been an angel so far (albeit a sometimes loud, demanding angel when she is hungry or uncomfortable.)"

Ryan Oltman, '98, MS '02, is the manager of systems services for the Aerospace Engineering Department. He is responsible for the health of the department's computers and is in charge of about 700 user accounts. Before joining AE, he worked for Frasca. Outside of work, Oltman is very much into planes: "I have been flying airplanes since the age of 14. I got my pilot's license at the age of 17. Here are the planes I consider interesting: T-6 Texan (aerobatic training); T37 Tweet (they don't like to fly inverted for extended periods of time); General Avia F33B Demon (one of only two built); a one-month old King Air C90B (Jaguar Edition; need I say more?); Piper Cheyenne IV (very fast); Steerman (only plane in which I've been in a wreck); Cessna 421C (hardest plane to manage in the air); a brand new, straight-from-the-factory Cessna 172, and my 1964 Piper Cherokee 180 (because it's mine). Life goal: To race a Pitts biplane at Reno."

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Robert (Bruce) Powers, MS '99, works at the United States Joint Forces Command as a senior engineering adviser on the staff of the Old Dominion University Research Foundation.



Bruce Powers in dress whites.

Samuel Schweighart, '99, graduated with a doctorate in aeronautical and astronautical engineering from Massachusetts Institute of Technology (MIT). He received his master's from MIT in the same field in 2001. Schweighart was co-founder and chief of MIT Emergency Medical Services.

2000s

Derek Gefroh, MS '00, was recently promoted to lead engineer for Flight Operations Engineering in Boeing's Commercial Aviation Services group, in Seattle. He joined Boeing in 2000.

Holly Gurbacki, MS '00, PhD '03, writes that she and **Daniel Therriault**, PhD '03, are now "true Montréalais," having moved to Montréal in December 2003 after their graduations. "In January (2004), Daniel started working as a professor in the Mechanical Engineering Department of École Polytechnique de Montréal," Gurbacki writes. Gurbacki will be working "on computer codes for aircraft ice protection and aircraft certification in icing conditions" for Bombardier Aerospace in the thermodynamics group. The couple was married June 26, 2004 in Montréal.

Jennifer (Jones) Madsen, '00, is on leave from her job as an aerospace engineer for NASA at Johnson Space Center, Houston. She is studying for a master's degree in electrical engineering at the University of Houston. Madsen plans to apply to the astronaut program after she graduates.

Steve Neurater, '00, MS '02, and **Doug Stolz**, '99, visited the department in December 2004. Neurater works at Northrop Grumman in Redondo Beach, California. Stolz is a mishap investigator for military airports for Pratt & Whitney. He is based in East Hartford, Connecticut.

Jim Knohl, '01, MS '03, attended a two-week zero-gravity training session in Fort Lauderdale, Florida, in January 2004 given by Zero-G Corporation, a company specializing in space entertainment and tourism. He is training to be a flight attendant, but says that's where the similarities end: "We're unique flight attendants, of course. We won't be serving beverages or peanuts and we won't be in charge of 100+ people. I'll probably only be in charge of 10, maximum. From what I know so far, we're the first batch of flight attendants for Zero-G. We'll be working with the customers (the flyers) before the flight, getting them ready and such,

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with a 4-0 record, competing in the 4.0 division. The national tournament was played in October in Tucson, Arizona.

She was also profiled in a January 2004 issue of *The News-Gazette*, in an article focusing on careers in aerospace engineering.

Emilio Frazzoli has resigned from the department. He is now with the University of California–Los Angeles Mechanical and Aerospace Engineering Department.

Harry Hilton (PhD '51) received an award in March 2004 for the best technical paper at the AIAA Dayton-Cincinnati Aerospace Sciences Symposium. Two years ago, Hilton received this same award for a different paper that he presented.

In November 2004, Hilton was elected an AIAA Fellow. He will be honored at the AIAA Aerospace Spotlight Awards Gala in Washington, D.C. in May 2005.

Kenneth Sivier and **Diane Jeffers** co-authored a chapter on aerospace engineering education at the University of Illinois in a just-published book, *Aerospace Engineering Education during the First Century of Flight*. The book was edited by Barnes McCormick, Conrad Newberry, and Eric Jumper, and was published by the American Institute of Aeronautics and Astronautics. Its 71 chapters relate the development of educational programs in the United States devoted to human flight. For more information, go to the AIAA Web site and drill down to Publications and Papers/Books/General Interest.

Petros Voulgaris has been promoted to full professor.

Kelly (McAllister) Broms, '01, and her husband Joe welcomed their second child, Elizabeth Ann, on July 10, 2004. She weighed 7 lb 12 oz at birth. The Broms also have a son, Christopher.



The Broms family: Kelly, Elizabeth, Christopher, and Joe.



Department Head and AE alumnus Mike Bragg talks to Abdi Khodadost (PhD '93) and Amir Isfahani (right), an AE graduate student, at the 42nd AIAA Aerospace Sciences Meeting and Exhibit in Reno.

UIAA Board Solicits Comments from Alumni

The University of Illinois supports a Campus Alumni Advisory Board (CAAB), composed of representatives from alumni chapters, constituent alumni associations, and other members of the Alumni Association, that serves as an umbrella advisory group. The Urbana CAAB welcomes comments and feedback. If you wish to share ideas or concerns, contact one of the following CAAB constituent committee members:

- Elizabeth Forkins Harano: efharano@msn.com
- Susan Funkhouser: sfhouser@soltec.net
- Neil Strack: neils@archspectrum.com

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helping with experiment schedules, etc., then taking the flight with them and ensuring their safety and comfort. We'll also be involved with ideas as to how to make sure the flyers get the most out of their day with us." Knohl was on the Float'n Illini team of March 2000 that flew in NASA's Reduced Gravity Student Flight Opportunities program.

Carolina Maldonado, '01, is an integration and test engineer at the Jet Propulsion Lab in California. Maldonado and several others in her Mars Exploration Rover team were featured in a news report on CNN in January 2004, just before the first rover landed on Mars. She wrote test procedures on how to electrically integrate some of the different pieces of the rover electronics. "As the launch date grew closer, I was able to have the opportunity to go to Kennedy Space Center for some of the testing done on the flight vehicles. It was definitely one of those times in life that makes a person see how far they've come," she said. "Now that *Spirit* has landed (on January 4, 2004), my role, along with several others, will be to verify that the next day's commands and sequences to the rover don't have errors and that they execute as expected."

Aaron Martin, '01, and Jennifer Nightingale were married on December 11, 2004 in Orion. Martin is an engineer with Lockheed Martin Aeronautics in Palmdale, California. They reside in Lancaster, California.

Mauritz DeRidder, '02, and Catherine M. Adrian were married in Naperville, Illinois, on June 19, 2004. Other AE alumni present included **Carlos Westhelle** ('02), who was DeRidder's best man; and **Eric Biedermann** ('03) and **Travis Wendt** ('03), who acted as ushers. DeRidder is a graduate student in mechanical engineering at Purdue University.

Mike Luman, '02, works for Boeing in Everett, Washington, in the External Static Loads group of the Commercial Airlines division. He expects to graduate with a master's degree in aerospace engineering by December or early 2005.

Jose Padilla, '02, is studying for his doctorate in aerospace engineering at the University of Michigan. He plans to graduate in 2007.

Michael Rynne, '02, and Susan Vig were married in June 2004. Rynne is an aeronautical engineer at Northrop Grumman in Los Angeles.

Carlos Westhelle, '02, is an engineer in the Flight Mechanics and Trajectory Design Branch at NASA Johnson Space Center, Houston. This branch is responsible for all aspects of flight/astro mechanics.

Scot Campbell, '03, is working with Boeing in St. Louis, assigned to the X-45 joint unmanned combat system. "My primary job is to compute mission (up-and-away) performance and takeoff/landing performance. Additionally, I have traveled to NASA Langley