



Grandfather Charles Givens of Blue Springs, Missouri, admires White's medallion.

of microcracks. Other potential applications can include adhesives that rebond and coating for paints so they are scratch-resistant and won't corrode."

White's cutting-edge research has brought him nine patents, issued or pending, and many accolades. In 2001, *Popular Science*

considered his research one of the top 10 innovations in science. In that year, he was also honored as a finalist for the first economic development award given by The Tech Museum of Innovation in San Jose, California.

To find out more about White's research:

- www.autonomic.uiuc.edu
- www.beckman.uiuc.edu/research/mens/ams.html

Microvascular Autonomic Composites MURI team:

University of Illinois at Urbana-Champaign: Scott White (principal investigator), Nancy Sottos (MatSE), Jeff Moore (Chemistry), Philippe Geubelle (Aerospace Engineering), Jon Freund (Aerospace Engineering), Ken Christensen (MechSE), Jennifer Lewis (MatSE)

Duke University: Adrian Bejan, Olaf von Ramm

University of California-Los Angeles: Tom Hahn, Fred Wudl

AE Space Design Projects Win Big

Three senior design projects from Aerospace Engineering were winners at the 2005-2006 AIAA National **Undergraduate Team Space Transportation Design Competition**. This year's proposal called for a lunar transportation system for a crew of four to and from the Moon. The Khonsu project received second place, and the Hyperion and Janus projects tied for third place. Faculty member and AE alumna Victoria Coverstone ('85, MS '86, PhD '92) was advisor for the teams.

Khonsu's team members were Vladimir Kudinok, Stephanie Milczarek, Keith O'Donnell, John Warner, Philip Patnaude, Paul Miles, Steven Eberle, and Scott Tashakkor. Hyperion's team members were John Evans, Keven Joye, John Mackin, Paul Martin, Derek Meyer, James Owens, Mark Schaffer, and Jessica Senning. Janus team members were Derek Bushman, Ethan Chew, Brad DeBlauw, Matt Giacomi, Eli Lazar, Ronak Patel, Daniel Reitz, and Adam Trebs.



White shares a quiet moment with his father, Ray White, of Harrisonville, Missouri, before the investiture ceremony.

CLASS NOTES

1950s

Allen Green, '56, presented a keynote address at the 27th European Conference on Acoustic Emission Testing in September 2006. The conference was held at Cardiff University in Wales. Green, president of Acoustic Technology Group in Sacramento, California, spoke about his experiences over 40 years in this technology. He is a member of AE's advisory board, and a Fellow of ASME, ASNT, and the Acoustic Emission Working Group (USA).

Alfred Inselberg, '57, is a professor in the School of Mathematical Sciences at Tel Aviv University, Israel. He writes that he, **Gary Van Sant** ('57), and two other students started the Illinois Rocket Society in 1953. "For the 1954 Engineering Open House, we sectioned an ME 163 rocket engine." He continued at Illinois and received his master's and doctoral degrees in applied mathematics and physics. He is completing a textbook on parallel coordinates for Springer-Verlag. Former classmates and professors can reach him at aaisreal@post.tau.ac.il, or read about his activities on www.math.tau.ac.il/~aaisreal/.

Charles Strom, '59, MS '60, PhD '65, is retired and living in Hawthorn Woods, Illinois.

1960s

Richard Bielawa, '60, is a consultant to the aerospace industry and author of the book, *Rotary Wing Structural Dynamics and Aeroelasticity*. The second edition was printed this year and is included in the AIAA Education Series. The book covers the concepts of structural dynamics and aeroelasticity for conventional rotary-wing aircraft, as well as for the emergent tilt-rotor and tilt-wing craft. Bielawa is president of R.L. Bielawa Associates of Sequim, Washington.

W. James "Jim" Hahn, '60, retired from Lockheed and lives in Fort Worth, Texas. He wrote recently to Prof. Harry Hilton: "I have to say that the older I get the more I look back and appreciate the department profs. What an outstanding department, which, no doubt, played a large part in my 'success' in spite of myself."

Ronald Mays, '64, retired in July 2002 after 37 years with Boeing. His 15 years in engineering included wind tunnel testing, computational fluid dynamics, flight testing, and supersonic airplane control systems. He then transferred to the sales and marketing division and spent the last 22 years marketing Boeing airplanes in Latin America, Europe, and Africa. He retired as the marketing director for sub-Saharan Africa. He and his wife Barbara live just north of the

This 'n That of Interest

■ *Support for Women in Aerospace Engineering...*

Women students in the department can now find support and mentors from this new Engineering Council society. Women in Aerospace Engineering first met in fall 2005. Faculty member Joanna Austin is the society's advisor. For more information, contact Gina Miller (gmmiller@uiuc.edu) or uiuc.wia@gmail.com.

■ *Ilesanmi Adesida becomes new Engineering dean...*

Ilesanmi Adesida is the new dean of the College of Engineering. He is the 13th dean since the college was founded in 1870. Adesida joined the Illinois faculty in 1987. In February 2006, he was elected to membership in the National Academy of Engineering. For more information: www.engr.uiuc.edu/news/?xId=068908000686

■ *TAM-MIE merger approved...*

The University of Illinois Board of Trustees formally approved the merger of the Department of Theoretical and Applied Mechanics with the Department of Mechanical and Industrial Engineering at its May 11 meeting. The combined department will be known as the Department of Mechanical Science and Engineering (MechSE). On the Web: www.engr.uiuc.edu/news/?xId=068908160672

■ *Purdue engineering dean named new UI provost...*

Linda P. B. Katehi began her duties April 1 as the new provost and vice chancellor for academic affairs at the University of Illinois. She was formerly the John A. Edwardson Dean of Engineering at Purdue University. Prof. Katehi was recently elected to the National Academy of Engineering. She is also a member of the NASA Aeronautics Technical Advisory Committee. On the Web: www.provost.uiuc.edu/about/staff/katehi/index.html

■ *Illinois Ranks in Top 20 for Technology Transfer and Commercialization...*

Illinois ranked 13th in a recent study by the Milken Institute, an independent economic think tank, on the ability of universities to transfer and commercialize biotechnology. Milken researchers analyzed and ranked 135 universities worldwide and unveiled their findings in September 2006. Go to www.milkeninstitute.org to read details of the report, *Mind to Market: A Global Analysis of University Biotechnology Transfer and Commercialization*.

■ *UI international student enrollment...*

According to the Institute of International Education, the University of Illinois at Urbana-Champaign was one of the top hosts to international students in 2004-05. It ranked second behind the University of Southern California: the UI hosted 5,560 international stu-

dents. On the Web: <http://opendoors.iienetwork.org/?p=69696>

- **Admission to UI gets tougher...** There was a 12 percent jump in admission applications to the University this year, making it more competitive for students who want to come to the UI. The story in the *Chicago Sun-Times* reported that the University received more than 22,000 applications for some 7,000 slots. On the Web: www.suntimes.com/output/news/cst-nws-uofijam24.html



The Department of Aerospace Engineering hosted a brunch to honor Burt Rutan, president of Scaled Composites, on May 14, 2006. Earlier that day, Rutan had received an honorary degree of engineering during Commencement ceremonies. Department Head Mike Bragg nominated him for the award. Rutan made the news in June 2004 with SpaceShipOne, the first privately funded successful space flight. That achievement captured the \$10 million Ansari X-PRIZE. The brunch was held at the Siebel Center for Computer Science.

downtown Seattle area in a historic converted elementary school.

Edward Wilson, '64, completed a Master's of Divinity degree at Eden Theological Seminary, St. Louis, Missouri, in May 2006. He was ordained a minister in the United Church of Christ in the fall. He retired as director of engineering from McDonnell-Douglas. Wilson would like to communicate with his former classmates and those of his wife, Janet Williams Wilson ('62, Bus. Ed), now deceased. He can be reached at egwjkw@fidnet.com or P.O. Box 173, Gerald, MO 63037.

Thomas Tobey, '69, was recognized in May for service to his alma mater at a luncheon on campus. He has served 11 years as a member of AE's alumni advisory board. He was presented with a watercolor sketch of the Transportation Building, which was the old quarters for Aerospace Engineering. Tobey retired from Boeing this spring. The Boeing director was the executive focal, or liaison, between the University and Boeing.

1970s

Craig Sutter, '71, has moved back to Urbana after a 32-year career teaching high school math and physics in Chicago. He meets with fellow alumnus and faculty member **Michael Selig** ('84) about racing aerodynamics.

Bruce Gadel, '75, was on campus recently for the Engineering Job Fair. He works at Northrop Grumman in Los Angeles.

Mike Davis, '76, has joined the brokerage firm of Pickering Energy Partners in Houston, Texas. "My role is business development, which means making companies and private equity investors aware of our capital raising abilities. I will get to use my engineering skills more than I have in the past as I learn more about petroleum engineering." Davis worked as a money manager for 15 years before joining Pickering.



David Riley, '77, was elected as director-technical of AIAA's Aerospace Sciences Group. "I have 11 technical committees in this group. ...My group hosts the Aerospace Sciences Conference and Exhibit each year in January. **Mike Bragg** ('76, MS '77) was the chair for this conference in January 2006." Riley is currently manager of Boeing's Automated

Aerial Refueling Program. He received AE's Distinguished Alumnus Award in 1995 and back-to-back Boeing Silver Phantom Awards in 2004 and 2005.

Art Sheridan, '79, and his team received a Lockheed Martin NOVA Award in October 2005 at a black-tie affair at the National Space and Air Museum in Washington, D.C. The NOVA is Lockheed Martin's highest honor for outstanding contributions in fulfilling the company's missions and objectives. Sheridan has been working on the F-35 Joint Strike Fighter for 10 years in Fort Worth. He was leader of the Fighter's STOVL weight attack team at the time of the award; he is now its director of affordability.

Daniel Pillasch, MS '77, PhD '79, is program manager of the Space-Based Infrared System's (SBIRS) Highly Elliptic Orbit (HEO) Payloads for Northrop Grumman.

1980s

Victor Onafuye, '80, is president and CEO of Pixel Information Technology Corporation in Markham, Illinois. Pixel offers hardware, software, and system management services to Fortune 500 corporations, various state governments, and the federal government. Onafuye started the company in 1992. He received an MBA from Governors State University, Illinois, in 1985. In July this year, he received the degree of Doctor of Practical Theology (D.P.TH) from Master's Graduate School of Divinity, which offers education online or via the postal system.

Mike Kelly, '83, joined NASA's Engineering and Safety Center at Langley Air Force Base in Hampton, Virginia, in July 2006. The NESC was created based on a recommendation of the board that investigated the (Space Shuttle) *Columbia* accident. The safety center assesses NASA's programs, projects, and institutions for vulnerabilities and determines appropriate preventative and corrective action for them. After graduating from Illinois, Kelly worked for 21½ years at the Douglas Aircraft Company in dynamic loads analysis and structural flight testing and 10 years on the company's Engineering Incident Board. He later joined the Federal Aviation Administration's Los Angeles Aircraft Certification Office, where he spent two years. He earned a master's degree in education in 2001 from National University in San Diego, "so that I might better understand how people learn—or fail to learn—science basics."

Richard Mange, '86, MS '90, PhD '96, was on campus in October to give a seminar on Lockheed Martin's F-35 Lightning II Joint Strike Fighter, with a focus on systems. Mange is a principal systems engineer at Lockheed.

Catherine (Larson) Koerner, '87, MS '89, acted as the lead flight director for the International Space Station from March through October 2006. She will be the lead flight director for the Space Shuttle for STS-117/13A (expected launch date of March 2007).

David Hoerr, '76, MS '78, is co-author, with Patrick Stiennon, of *The Rocket Company*. The book was first serialized on HobbySpace.com and published in 2005 by AIAA. The book explores the difficulties faced by a group of investors as it tries to develop a reusable launch vehicle. Although it is fiction, the book's chapters provide readers with an insider's perspective to the aerospace engineering process, touching on topics such as financing, regulations, design, production problems, and marketing.

Hoerr is a lecturer in the Engineering Mechanics and Astronautics program at the University of Wisconsin–Madison. He has served in the U.S. Air Force and has worked on missile and space projects. He co-founded Space Test Inc., a start-up company that provided payload integration services to space launch customers. He has also worked at Lockheed Missiles and Space Company on the Hypersonic Glide Vehicle project.



Nicholas Evans, '99, and his wife, Karen, are first-time parents. Their son, Ethan Jeffrey, was born on September 20, 2005. Evans works for Lockheed Martin in Fort Worth.



Jim Knohl, '01, MS '03, married Michelle Renae Wasson of Clovis, California, on December 30, 2005. For their honeymoon, they drove all the way from California to Merritt Island, Florida, where the couple will reside. Knohl works for Boeing at the Kennedy Space Center. He is also a zero-gravity coach for a space tourism company, Zero-G, and is working towards becoming a flight director, who is responsible for crew and flyers during flights.

Bob Reiher, '89, was recently named director of software development for Karmak, a Carlinville, Illinois company that designs and provides business management software for the heavy-duty truck and equipment industry. Reiher was previously with Smurfit Stone Container Corporation in Alton. He has also worked for McDonnell Douglas, BJC Health Systems, and Boeing.

1990s

Koorosh Mirfakhraie, PhD '91, is an adjunct professor in the Mechanical and Aerospace Engineering Department at West Virginia University, Morgantown.

Robert Foelsche, MS '93, PhD '98, is a senior scientist for technology development and mission manager for ATK's scramjet (supersonic combustion ramjet) flight test. He is based in Ronkonkoma, New York. In early December 2005, ATK (also known as Alliant Techsystems), the Defense Advanced Research Projects Agency (DARPA), and the Office of Naval Research (ONR) launched and flew a scramjet-powered vehicle that used conventional liquid hydrocarbon jet fuel. The company designed and built the FASTT (freeflight atmospheric scramjet test technique) vehicle used for this test.

Bob McDonald, '93, MS '95, PhD '00, was a contestant on Jeopardy. The episode in which he appeared aired on December 26, 2005.

Todd Cerven, '97, MS '99, PhD '03, and Marie welcomed their daughter, Mara Gianetta, into the family on July 27, 2006. The baby weighed 7 lb 10 oz. The Cervens also have a 2½-year-old daughter, Alaina. Cerven works at The Aerospace Corporation in Chantilly, Virginia, analyzing satellite orbits and control systems.

Jason Merret ('99, MS '01, PhD '04) married Sarah Dietz on March 4, 2006 in Savannah, Georgia. Alumni who attended the ceremony included **Preston Henne** ('69), **Meghan Meharry** ('03), **Nick McFall** ('03), AE Department Head **Mike Bragg** ('76, MS '77), and Diane Jeffers, the coordinator for external relations.

2000s

Elisabeth (Anderson) Cain, '00, and her husband, Charles, welcomed their first child, Alexander David, on September 27, 2004. She is parenting full-time. The family resides in Buffalo Grove, Illinois.

Steve Jaeger, '00, MS '03, and his wife Amy of South Hamilton, Massachusetts, have named their first child Ethan Andrew. He was born July 11 and weighed 9 lb 3 oz.

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