

# Russ College Faculty and Staff Accomplishments

**Tony Adami** and **Tom Arthur**, *research engineers, Avionics Engineering Center*, and **Jim Zhu**, *professor, School of Electrical Engineering and Computer Science*, received five-year service awards in May from the Avionics Engineering Center.



**Khairul Alam**, *Moss Professor, Department of Mechanical Engineering*, was named a fellow of the American Society of Mechanical Engineers.

**Moss Professor of Mechanical Engineering Khairul Alam** speaks at a press conference in November announcing a \$1.6 million federal appropriation supporting his research with carbon foam.

**Kevin Berisso**, *assistant professor, Department of Industrial Technology*, earned his Comptia RFID+ Certification in February.

**Janet Blazyk**, *software engineer*, and **Paul Nilles**, *IT administrator, Avionics Engineering Center*, received the Avionics Director's Award in May for their collective efforts in support of Loran-C program research activities.

**Melissa Broeckelman**, *academic honesty advisor*; **Dennis Irwin**, *dean*; **David Koonce**, *assistant professor, Department of Industrial and Systems Engineering*; and **Michael Prudich**, *interim associate dean for research and graduate studies*, presented "The Ohio University Experience: Protocols for Adjudicating Alleged Plagiarism and Promoting Academic Honesty" at the Center for Academic Integrity International Conference in Newport News, Virginia, on Oct. 19.

**Laquetta Cortner**, *coordinator for minority, women, and outreach programs*, earned her Ph.D. in higher education. She also received Ohio University's NAACP Advisor of the Year Image Award.

**James Fales**, *Loehr Professor Emeritus, Department of Industrial Technology*, is serving as the first "Leader in Residence" for the Global Leadership Center at Ohio University.

**David Fleeman**, B.S. '02, B.S.C.S. '02, M.S. '06, *web applications*

*developer*, received his master's in computer science from Ohio University in November 2006.

**Robert Judd**, *chair and professor, Department of Industrial and Manufacturing Systems Engineering*, gave the Hammerle Lecture at Oakland University in Rochester, Michigan, his alma mater, as part of their 50th anniversary celebration on March 29. He spoke on "Systems Engineering, the Future: From Manufacturing to Health Care."

**Peter Klein**, *chair and associate professor, Department of Industrial Technology*, published "Plastics Thermoforming Tool Design: Plus vs. Cavity Molds," Manufacturing Education Resource Center (MERC Online).

**Doug Lawrence**, *associate professor, School of Electrical Engineering and Computer Science*, and **Robert L. Williams II**, *professor, Department of Mechanical Engineering*, authored the book *Linear State-Space Control Systems*, John Wiley & Sons, Inc.; Hoboken, New Jersey, 2007.

**Sandi Mathews**, *undergraduate secretary, School of Electrical Engineering and Computer Science*, was named Outstanding Classified Employee for March by Classified Senate.

**David W. Matolak**, *associate professor, School of Electrical Engineering and Computer Science*, authored, published, and presented several works, including:

- Authored "A Simplified Group Interference Cancelling Technique for Asynchronous DS-CDMA," *International Journal of Communication Systems*, vol. 19, pp. 1117-1136, April 10, 2006.
- Published and presented "Channel Modeling for V2V Communications," (invited paper) Proceedings of the 2nd International Workshop on Vehicle-to-Vehicle Communications (V2VCOM 2006), in San Jose, Calif., on July 21, 2006.

**Srdjan Nesic**, *professor, Department of Chemical Engineering and director, Institute for Corrosion and Multiphase Flow Technology*, won the 2007 NACE H.H. Uhlig Award, recognizing outstanding and innovative teaching in corrosion.

**Simbo Odunaiya**, *senior research engineer*, and **David Quinet**, *senior program engineer, Avionics Engineering Center*, were awarded Best of Session Paper for "Localizer Receiver Proximity and Capture," which Odunaiya presented at the Digital Avionics Systems Conference in Dallas, Texas, from Oct. 21-25.

**Chuck Overby**, *professor emeritus, Department of Industrial and Systems Engineering*.

- Presented “Imagine the Magic of an Article 9 Without Borders” at eight major Japanese universities in nine major Japanese cities in support of Japan’s war-renouncing Article 9, during May and June.
- Gave the seminar “The Prevention of [1] Oil and Other Resource Wars, and [2] Global Warming—With Green Technology by Design” [GTBD] in conjunction with Japanese engineers, eco-economists, and scientists at Nagoya, Aichi, Waseda, and Hitotsubashi Universities in Japan, during June.
- Authored a proposed U. S. Constitutional Amendment modeled after Japan’s Article 9 at the Veterans for Peace Annual Conference in St Louis, Missouri, in August.

**Louise Pullins**, *document specialist, Avionics Engineering Center*, received a 20-year service award in May from the Avionics Engineering Center.

**David A. Quinet**, *senior program engineer, Avionics Engineering Center*, received the Federal Aviation Administration Navigation Services Superior Performance Award in May.

**James Rankin**, *associate dean for research, graduate studies, and planning*, served as interim vice president of research for Ohio University from November 2006-2007. He was also named an associate fellow by the American Institute of Aeronautics and Astronautics.

**Trent Skidmore**, *senior research engineer, Avionics Engineering Center*, received a 15-year service award in May from the Avionics Engineering Center.

**Dusan Sormaz**, *associate professor, Department of Industrial and Systems Engineering*, served as guest editor for the *International Journal of Production Research*, and helped to organize the APSP Symposium on Advances in Process & System Planning for the ASME International Conference on Manufacturing Science and Engineering. He also co-authored:

- *Chapter in Process Planning and Scheduling for Distributed Manufacturing*, Springer Series in Advanced Manufacturing, pp. 61-90, May 2007.
- “Virtual Manufacturing of Milling Operations with Multiple Tool Paths,” *International Journal of Manufacturing Technology and Management*, Vol. 9, No. 3/4, pp. 237-264, 2006.

**Zofia Starzyk**, *budget manager, the Avionics Engineering Center*, was named a 2006 Outstanding Administrator by Administrative Senate. Starzyk manages more than 50 active grants and contracts, totaling more than \$9.2 million in the 2005 fiscal year.

**Gary Weckman**, *associate professor, Department of Industrial and Systems Engineering*, was awarded the University of Louisville’s distinguished department of engineering alumnus 2007 Professional Award in October for his dedication to his students and understanding of research. He also served on the planning committee and as a session moderator for the International Conference on Nanotechnology Occupational and Environmental Health & Safety: Research to Practice, in Cincinnati from December 4-7, 2006.

**Ralph Whaley, Jr.**, *assistant professor, Department of Electrical Engineering*, authored and presented “Development of Amorphous Silicon Photonic Platforms” at the SPIE Great Lakes Photonics Symposium, in Dayton, from June 12-15, 2006. He also co-authored “Observation of Low Optical Overlap Mode Propagation in Nanoscale Indium Phosphide Membrane Waveguides,” *Applied Physics Letters*, 90, 011114, January 2007.

**Robert L. Williams II**, *professor, Department of Mechanical Engineering*:

- Co-authored “Velocity and Acceleration Cones for Kinematic and Dynamic Constraints on Omni-Directional Mobile Robots,” *ASME Transactions on Dynamic Systems, Measurement and Control*, 128(4): 788-799.
- Presented “Three-Cable Haptic Interface” and “Cable-Suspended Robotic Contour Crafting System” at the ASME International Design Technical Conferences and the 30th Mechanisms and Robotics Conference, all in Philadelphia, from September 10-13, 2006.
- Presented “Palpatory Training on the Virtual Haptic Back Improves Detection of Compliance Differences” at the Eurohaptics Conference, in Paris, France, from July 3-6, 2006.

**Carole Womeldorf**, *assistant professor, Department of Mechanical Engineering*, authored and presented “An Introduction to the Construction of Engineering Concept Inventories: Tools for impacting teaching, learning, and assessment” at the American Society for Engineering Education North Central Section Conference, in Charlestown, West Virginia, March 30-31. She also presented “Concept Inventories: a Foundation for an E3 (Ethical, Effective, and Efficient) Education” at the American Society of Mechanical Engineering International Mechanical Engineering Congress and Exposition in Chicago from November 5-10, 2006.

**Janet K. Yates**, *professor, Department of Civil Engineering and director, Construction Engineering Management*:

- Authored the book *Global Engineering and Construction*, John Wiley and Sons, New York, New York, 2007.
- Served as a special editor for the July issue of the American Society of Civil Engineers’ *Journal of Professional Issues in Engineering Education and Practice*, July 1, 2007.
- Co-authored “Global Legal Issues for Engineers and Constructors,” American Society of Civil Engineers’ *Journal of Professional Issues in Engineering Education and Practice*, vol. 133, no. 3, pp. 1-11, July 1, 2007.

**Helmut Zwahlen**, *Russ Professor Emeritus of Industrial and Systems Engineering*, presented three papers at the 86th Annual Transportation Research Board Meeting in Washington, D.C., from January 21-25:

- “The Use of Average Traffic Speeds to Indicate the Level of Roadway Snow and Ice Control Operations,” (Paper No.: 07-1483, co-authored).
- “Approximated Headway Distributions of Free-Flowing Traffic on Ohio Freeways for Work Zone Traffic Simulations,” (Paper No: 07-1511, co-authored).
- “Modeling the Temperature Behavior of Concrete Bridge Decks as a Function of Rapid Change in Air Temperature Using Finite Element Analysis,” (Paper No: 07-2499, co-authored). 