



**Mrs. Margaret (Peggy) Donovan**

For more than a decade, Margaret F. (Peggy) Donovan has been a staunch supporter of The University of Akron, and in particular, the College of Engineering. Her numerous gifts currently total \$2 million.

Her initial gift to the University was made in 1996, when she and her family endowed the Robert E. Donovan Scholarship Fund, in memory of her husband. These awards are presented annually to deserving undergraduate and graduate women pursuing degrees in engineering, law or business at UA. Five years later, Donovan established the Margaret F. Donovan Chair for Women in Engineering, the first chair in the United States designed to enhance and promote female leadership in engineering. The College of Engineering Student Design Center is the beneficiary of her most recent commitment.

"I am always pleased to give to the College of Engineering," Mrs. Donovan says. "The College has a strong reputation of graduating top-notch engineers. The addition of the new Student Design Facility will only help augment the college's efforts in attracting the best students. I am glad to be a part of this effort."

The Donovan family lived in the Akron area from 1987-90, while Mrs. Donovan's husband, Robert, served as an executive with Babcock & Wilcox. In 1996, Bob perished in a plane crash while on a humanitarian trade mission to Croatia.

Mrs. Donovan serves on The University of Akron Foundation's Board of Directors, the College of Engineering Advancement Council, and the Women in Engineering Advisory Council. In addition, she is a member of the 1870's Benefactor Club of the John R. Buchtel Society.

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## Engineering students to get Student Design Center

Students in the College of Engineering have achieved extraordinary success in student design competitions, often garnering top rankings at the national and international events. Starting in the early 1990s, they have participated in several competitions, including formula-style racecars, radio-controlled cargo aircraft, steel bridges, innovative energy systems, concrete canoes, alternative energy vehicles, high-mileage vehicles and Baja-style off-road, sponsored by the Society of Automotive Engineers (SAE), the American Society of Civil Engineers (ASCE), and other professional organizations.

These design competitions allow our students to apply their classroom knowledge to real-world applications. As a result, participants not only graduate with the strong theoretical framework necessary for a successful career in engineering, but also with the "hands-on" experience so highly sought by employers.

Oftentimes, project design and fabrication took place in various locations on and off campus — until now. Construction for a 9,000 sq. ft. facility, dedicated solely to engineering student design projects, is underway. Located next to the Auburn Science and Engineering Center, the Margaret F. Donovan Student Design



**Engineering students will soon be able to design, fabricate and test their products under one roof upon the completion of the new Margaret F. Donovan Student Design Center.**

Center, will feature separate machine, wood, and paint shops, a CAD lab, and a conference room. It is slated to open in Fall 2009.

"We are extremely proud of our students' successes," says Dean George Haritos. "This Center will not only give our students the space and resources needed to continue producing competitive designs, but it will also provide them with a venue facilitating teamwork critically important in their careers."

It is also hoped that the Center will attract added funding for more advanced research as well as continue to attract high caliber students to join the excitement of The University of Akron's Engineering programs.

## Thank you to these donors who helped make the College of Engineering Student Design Center a reality:

- ◆ Margaret F. Donovan
- ◆ Donald Britsch Estate
- ◆ Timken Foundation of Canton
- ◆ Dr. C.F. Chen
- ◆ John E. Schremp
- ◆ Bridgestone Firestone
- ◆ Jerry H. Welty
- ◆ Thomas R. Schidel
- ◆ Robert A. Handelman

# Distinguished Alumni

## Letter from the Dean



**Dr. George K. Haritos**  
Dean, College of  
Engineering

Welcome to the first edition of the College of Engineering newsletter. We hope that this newsletter, which we plan to publish each semester, will prove to be an effective means of keeping you — our alumni, friends and strategic corporate and government partners — up to date on all noteworthy developments in the College.

I am pleased to report that over the past several semesters, the College has enjoyed unprecedented growth and success in all of our targeted mission areas.

The number of our undergraduate students increased by 9.5 percent over Fall 2007 to a Fall Semester 2008 headcount of 1,926. Over the last four years, Fall 2004 to Fall 2008, our undergraduate enrollment increased by 39.3 percent, making us the fastest growing engineering college in the State. At the same time the average ACT/SAT scores and high school GPAs of each entering class have either improved or held constant and remain excellent.

As a result of these gains in our student body, the UA administration has approved our request to hire additional faculty. During the last two years the number of faculty has increased by 10, from 59 to 69. Our request for additional growth during AY 2008-09 is pending.

Throughout the past academic year, the focused, tireless efforts of our faculty in the research arena have yielded significant benefits — the level of funded research more than doubled over the previous academic year. The number of funding sources also increased and our research base broadened; our faculty now perform research sponsored by nearly all Federal funding agencies, the State of Ohio, and an ever-increasing number of corporations and local hospitals.

During Fall Semester 2007, we were visited by a team of senior U.S. engineering educators

*(continued on page 5)*

On April 24, the College of Engineering honored four outstanding alumni at its 2008 Distinguished Engineering Alumni Awards Breakfast, held at the Paul E. Martin University Center. These recipients are recognized for their contributions to the engineering profession, career achievements and community service. Congratulations.

Scott Armstrong is vice president and division manager of the Great Lakes Office of Science Applications International Corporation (SAIC) in Twinsburg, Ohio. Prior to joining SAIC, Scott spent 18 years with Environmental Design Group (EDG) where he served as CEO from 2001 through 2004. After the merger of EDG with Floyd Browne Associates, he served as COO of Floyd Browne Group from 2005 through 2006. Scott earned his bachelor of science degree in Civil Engineering in 1982. He remains active in the college, currently serving as treasurer of The Committee for the Future of Civil Engineering (CFCE) and as a member of the Women in Engineering Advisory Council.



Louis J. Ciraldo, Sr. enrolled at The University of Akron after serving in the U.S. Navy during World War II. Averaging 24 credit hours a semester, he was able to successfully earn his degree in Electrical Engineering in 1950. He spent his entire career at the Goodyear Tire and Rubber Company, where he was actively involved in the company's greatest expansion period — building 21 domestic and 17 foreign plants. Since his retirement in 1987, Ciraldo has remained active in Engineering, working alongside his sons in the construction industry.

Louis Ciraldo, Jr., president of Summit Construction Company, Inc., graduated from The University of Akron in 1976 with a bachelor's degree in Civil Engineering. After graduating from UA, Lou was an active duty officer with the U.S. Army Corp of Engineers in Europe, serving as an engineer in a heavy construction battalion. He briefly settled in the South, before returning to Akron to become a partner in Summit Construction. He acquired the company in 1988. Lou serves on the Department of Civil Engineering Advisory Council and the Committee for the Future of Civil Engineering. In addition, he has lent his expertise to the University, working as a part-time instructor in Construction Technology.



Dr. Ming Zhang holds two degrees from The University of Akron — a master's degree in Electrical Engineering and a Ph.D. in Mechanical Engineering. He is the founder of Interactive Engineering Corporation, a design and manufacturing company of electronic controls. Prior to founding IEC, Dr. Zhang was a research and development engineer at American Business Computers, which produced beverage serving machines for the restaurant industry. Dr. Zhang and his wife, Xin (Cindy) Jiang, a 1989 UA graduate with a master's degree in Mechanical Engineering, are committed to giving back to UA, sharing not only their knowledge, but their financial resources as well. Dr. Zhang serves on the Electrical and Computer Engineering Advisory Council.



## Working for the environment



**D**r. Steven C. Chaung, professor of Chemical Engineering is well known nationally and internationally for his research expertise in carbon-based fuel cell

technology. During the past two years, he has been awarded nearly \$3.2 million in grants for his research. These grants include: *Development of Kilowatt-Scale Coal Fuel Cell Technology*, U.S. Department of Energy under Pre-award Negotiation; *Oxide-supported Amine for Moving-Bed CO<sub>2</sub> and SO<sub>2</sub> Capture*, Babcock & Wilcox Power Generation Group, Inc.; *Low Cost Catalysts to Enhance Hydrogen Storage in Metal Organic Frameworks*, subcontract from Ovonic Hydrogen System, LLC, Department of Defense; *Metal Monolithic Amine-grafted Zeolites for CO<sub>2</sub> Capture*, U.S. Department of Energy; *Coal-based Fuel Cell*, Ohio Coal Development Office; *Integrated Fuel Cell with Chemical Looping*, joint-point with Professor L. S. Fan at the Ohio State University; *Development of a 5 kW Prototype Coal Fuel Cell*, U.S. Department of Energy; and *Development of Direct Carbon Fuel Cell Systems with Breakthrough Energy Density for Mobile Defense and Security Applications*, subcontract from Contained Energy, Third Frontier Fuel Cell.

## Did you know?

**D**uring the fiscal year 2007-08, the College of Engineering faculty generated nearly \$8.3 million in research proposals. Also, on a per faculty basis, the College of Engineering has the highest publication rate among all other Ohio engineering schools.

## FirstEnergy pledges \$2 million for Advanced Energy Research

**F**irstEnergy Corporation has pledged \$2 million to the College of Engineering to establish the FirstEnergy Fund for Advanced Energy Research. The funds will be used to create the FirstEnergy Advanced Energy Research Center and to support further studies. CONSOL Energy, one of the nation's leading coal producers and a major fuel supplier to the electric power industry in the northeast United States, has also made a significant contribution — \$250,000 — to the project.

Initially, the Advanced Energy Research Center will focus on the development of CO<sub>2</sub> capture technologies that could be used by fossil-fueled power plants and the development of coal-based fuel cells for commercial use. UA also plans to expand the

center's work over time to include the development of new electric grid technologies needed for end-use efficiency, demand response, distributed generation, plug-in hybrid electric vehicles and energy storage, as well as advanced generation technologies such as renewables, clean-coal and other low- or zero-emissions technologies.

"The University of Akron is known globally for our cutting-edge research into new materials and technologies that help accelerate knowledge creation and economic development in Northeast Ohio," says UA President Luis M. Proenza. "We are most grateful to FirstEnergy and CONSOL Energy for their collaboration and partnership in advancing this important work that will strengthen our region and benefit our nation."

## Gas Turbine facility — one of a kind

**T**he two Stealth fighters that adorn the exterior of the Gas Turbine Testing Facility offer a glimpse of the work being conducted within the 11,200 sq. ft. building. For nearly two years, engineering faculty, graduate students and select undergraduates have been performing research and testing turbine and engine components for the U.S. Air Force, NASA and private industry at the site.

The recent addition of a new structural load frame, together with a 55Kip MTS actuator, a 20Kip Tension-Torsion MTS machine and a four post Tension-Compression servo hydraulic Kips MTS machine, makes the propulsion and power center one of a kind to the region.

Ultimately, the University hopes the facility will support the effort to position Ohio as a leading manufacturer of aerospace components for military and commercial use. Until then, aside from the ongoing research, the facility also serves as a training center for an elite group of engineering students. Here professors train students on the inner workings of engines, as well as the testing and evaluation of aerospace systems and components, giving the men and women invaluable hands-on experience.

As for the Stealth fighters, they are scale reproductions of the U.S. Air Force's Stealth F117A-Nighthawk. Constructed from aluminum, they are strong enough to withstand 150-mile winds.



Civil Engineering professor, Weislaw Binienda, provides a special tour of the College's Gas Gun Turbine Testing Research Facility to several of the College's alumni.

New life for an old computer lab —

## Facility named in honor of Julius Handelman

**T**he College of Engineering's new faculty resource room will be named The Julius Handelman Chemstress Faculty Center in recognition of the ongoing financial commitment to the college from longtime supporter Bob Handelman, president of Chemstress Consultant Company.

Constructed from an under-utilized computer lab, the new state-of-the-art multimedia, multi-purpose room features a large conference area with a retractable viewing screen and podium as well as a second, connecting area, which can augment the conference area for larger audiences. The room can be divided into separate areas by a set of double doors, allowing two different groups to use the space simultaneously.

Handelman says he chose the name to pay tribute to his father, whom he describes as "the smartest man I ever knew." A machinist by trade and a brilliant investor, the elder Handelman would often work 12 hours days to put his son through college.

"My father always held the highest respect for higher education and was particularly fond of engineering," Handelman says. "Keep in mind, this was during a time when those around him were not really interested in education."

Handelman earned his master's degree in chemical engineering at The University of Akron. He founded The Chemstress Consultant Company in 1965.

Throughout the years, he has been a staunch supporter of the college, making several gifts, including the endowment of The Chemstress Consultant Company Outstanding Student Award in Chemical & Biomolecular Engineering for both undergraduate and graduate students and the Outstanding Teacher Award. He has also served on numerous committees and boards. Currently,



**The Julius Handelman Chemstress Faculty Center, located in the College of Engineering, features a faculty conference center and multi-purpose facility. Bob Handelman (pictured), president of Chemstress Consultant Company, named the center in honor of his father, Julius Handelman.**

he is the chairman of the College of Engineering Advancement Council.

In addition, he has hired many UA graduates, to whom he attributes much of his company's success.

"When it is all said and done, the support I have been able to give to the college has been made possible by the hard, diligent, long-term application of talent of people at Chemstress," Handelman says, adding. "My continued commitment to the college lies within supporting our students, our future engineers. I am happy to be part of this new facility and to show my deep appreciation to our dedicated and talented faculty."

## CHALLENGE X: A four-year journey completed

**I**t was a competition like no other. For the past four years, UA engineering students have been putting their ideas and skills to the test in the Challenge X Competition. Dr. Iqbal Husain, professor of Electrical and Computer engineering and team adviser, said the team did great for their first-time ever in such a competition.

In 2004, The University of Akron engineering students were selected to participate with 16 other North American university teams in a four-year hybrid vehicle design competition sponsored by General Motors and the U.S. Department of Energy (DOE). The competition, Challenge X Crossover to Sustainable Mobility, called for the teams to re-engineer a production model compact sport-utility vehicle, the Chevy Equinox, to reduce energy consumption and decrease emissions while maintaining its performance as well as its



**Civil Engineering alum, Jim Maser, president, Pratt & Whitney Rocketdyne, visits with Challenge X students to discuss the car's unique engineered features.**

appeal to consumers. At the end of each school year, the teams would gather for evaluations and competition placement.

The University of Akron results from the four-year competition are: 2004-05, 2nd place (design & modeling); 2005-06, 11th place (performance); 2006-07, 12th place (performance) and 2007-08, 10th place (performance). Also in regards to student performance, General Motors has hired 12 UA Challenge X engineering students which is more than one-fifth of the overall Challenge X students hired by the company.

For more details on the Challenge X competition and a complete list of the nearly 40 sponsors who made The University of Akron Challenge X team experience a great success, please visit their Web site at [www.challengex.uakron.edu](http://www.challengex.uakron.edu).



# New Faculty

## Chemical and Biomolecular Engineering



**Dr. Lingyun Liu** earned her bachelor of science and master's of science degrees in Biomedical Engineering from Southeast University, China. In 2007, she received her Ph.D.

degree in Bioengineering from the University of Washington, Seattle, Washington. She joins the Department of Chemical and Biomolecular Engineering at The University of Akron as an assistant professor. Her research interests include biointerfaces, biomaterials, biosensors, and tissue engineering.



**Dr. Jie Zheng** received his Ph.D. in Chemical Engineering from the University of Washington, Seattle, Washington, in 2005

and joins the Department of Chemical and Biomolecular Engineering as an assistant professor. Before coming to the University, Dr. Zheng was a research scientist for the Center for Cancer Research Nanobiology at National Cancer Institute. His research centers on computational structural biology, biomaterials and biosensors, and multiscale modeling for biological systems.

## Civil Engineering



**Dr. Anil Patnaik** received his Ph.D. from the University of Calgary in 1993 and will be teaching courses in areas of structures and mechanics as an associate professor for the Department of Civil Engineering. His

research interests are in friction stir welded structures, basalt FRP, composite concrete members and FRP, and high performance concrete.



**Dr. William Schneider** received his bachelor, master's and Ph.D. degrees in Civil Engineering, all from Purdue University. Prior to joining the Department of Civil Engineering as an assistant professor, he spent more than

two years at the Texas Transportation Institute (TTI). Dr. Schneider is the principal investigator for the Ohio Department of Transportation's review and development of new seasonal adjustment factors for cars and trucks. His research interests are in transportation air quality, ITS data management, and the impacts of geometric design on safety and operations.



**Dr. Gunjin Yun** earned a bachelor of science degree in Civil Engineering, and a master's of science in Structural Engineering from Korea Advanced Institute of Science and Technology 1994 and 1996, respectively. He

earned his Ph.D. in Structural Engineering and Mechanics from the University of Illinois at Urbana-Champaign in 2006. He joins the faculty of the Department of Civil Engineering as an assistant professor. He plans to develop a research program in structural health monitoring and civil engineering cyberinfrastructure.

## Biomedical Engineering



**Dr. Yang Yun** received his B.S. degree in Mechanical Engineering from Christian Brothers University and his master's of science and Ph.D. degrees in Biomedical

Engineering from the University of Memphis. Dr. Yun is an assistant professor for the Department of Biomedical Engineering. His research interests lie within biomaterial development and characterization, nonviral gene therapy, drug delivery, tissue engineering, nanotechnology, and cardiovascular dynamics and mechanics.

## Mechanical Engineering



**Dr. Zhenhai Xia** received his bachelor of science degree from Hefei Polytechnic University of China in 1984, and his master's of science and Ph.D. degrees in Materials Science from

Northwestern Polytechnic University in 1987 and 1990, respectively. He served on the faculty of Hebei University of Technology between 1990 and 1997 as professor and department chair, Visiting Scientist/Humboldt Research Fellow at German Aerospace Center (DLR) between 1997 and 1999, and senior research associate at Brown University between 1999 and 2006. He is now an assistant professor for the Department of Mechanical Engineering. He and his students are conducting research in the area of mechanics of materials.

The College also welcomes Dr. Francis Loth to the faculty. For more on Dr. Loth, please see page 6.

## Letter from the Dean

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organized by the Accreditation Board for Engineering and Technology (ABET). They performed an in-depth review and evaluation of the quality of all seven undergraduate programs we offer. Last month, we received ABET's final report. All seven undergraduate programs garnered praise for their high quality and were, once again, fully accredited.

With the support of the UA administration, we are making excellent progress toward our goal to increase the size of the College's physical space. We have grown our facilities — new and planned — by more than 50 percent to more 230,000 sq. ft.

Work continues on two new undergraduate programs — Aerospace Systems Engineering, which will be based in the Department of Mechanical Engineering, was created with a grant award from the U.S. Department of Education; has received unanimous support from our faculty; and Corrosion Engineering, to be based in the Department of Chemical and Biomolecular Engineering, is in the early development stage. This program has garnered significant support from the Office of the Secretary of Defense and a broad range of industrial strategic partners.

As you read about your College of Engineering in this newsletter, please join me in applauding the accomplishments of

our faculty and students. I am also pleased that you will be reading about the superb support provided by several of our alumni and friends.

On behalf of the College of Engineering, I wish to thank all of our alumni, friends and industrial partners of the College. Without you, several of the accomplishments highlighted in this newsletter would not have been possible.

Your continued support is indispensable in our quest to provide the best possible academic experience to our students.

*George K. Hariton*

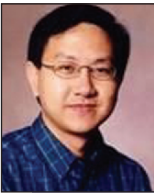
# Student Design Projects Update



## The Harrington Endowed Chair

Dr. Francis Loth has been named the F. Theodore Harrington Endowed Associate Professor of Mechanical Engineering. Dr. Loth earned his bachelor of science degree from West Virginia University, his master's of science degree from the University of Cincinnati in Aerospace Engineering, and his Ph.D. degree from the Georgia Institute of Technology in Mechanical Engineering. His research is in the area of biofluids with specific emphasis on the fluid dynamics of blood vessel disease and neurocranial disorders. He comes to UA after serving six years as an assistant professor and six years as a tenured associate professor at the University of Illinois at Chicago.

The F. Theodore Harrington professorship was established in 1987 through a gift from Harrington, a 1925 Mechanical Engineering graduate, and his wife, Madge ('26).



Earlier this year, Dr. Shing-Chung (Josh) Wong received the prestigious National Science Foundation CAREER Award. About 200 faculty members in science and engineering throughout the United States receive this award each year. In addition to the distinction, Dr. Wong will receive a \$400,000 grant to continue his work on "Electrospinning Enabled Bio-Inspired Material Research and Education."

## MECHANICAL ENGINEERING



UA's Formula SAE team puts their vehicle to the test at the Michigan International Speedway.

UA's SAE Formula Team joined more than a hundred other university teams worldwide at the Michigan International Speedway in June to compete in one of the most popular of the SAE Collegiate Design Series. The UA Formula team, with five top 10 finishes in their record, placed in the top tier of the competition with a 43rd place finish this year.

The University of Akron Supermileage Team finished 4th overall in the 2008 SAE Supermileage Competition, held in June in Marshall, Michigan. The SAE Supermileage competition provides students with a design challenge to develop and construct a fuel-efficient vehicle powered by a small, one-cylinder, four-cycle engine.

The Aero Design Team of Mechanical Engineering students finished first in the Micro Class division in the recent Unmanned Aerial Vehicle (UAV) Competition sponsored by the Society of Automotive Engineers (SAE) held in Marietta, Georgia. The UA team also won the Highest Payload Fraction award (Payload/ (Payload + Empty Weight)). The objective of the Micro Class competition was to build and design an aircraft that can carry the highest payload fraction possible while also having the lowest empty weight possible.



Michael Reese of the UA Aero Design Team, readying the micro-class plane for competition.



Members of the UA Steel Bridge team.

## CIVIL ENGINEERING

The University of Akron's American Society of Civil Engineers (ASCE) Student Chapter took top honors at the 2008 ASCE Ohio Valley Conference competition. In the Steel Bridge Competition, the UA team captured first place overall while the UA Concrete Canoe team secured a second overall finish in their competition. This was the first time the two UA teams competed in this Conference after switching from the North Central Conference early in the academic year in order to compete with schools within a closer proximity to UA.

## Siemens Donation Impacts Student Design Use

An agreement with Siemens has provided for 300 seats of the Siemens PLM Software NX® and TeamCenter Engineering®, a dynamic modeling software for student design use. The software allows students and faculty to gain valuable hands-on experience with programs that are used extensively throughout the engineering industry.



## ELECTRICAL AND COMPUTER ENGINEERING



Team UA poses with their Lunar Rover Robot.

The ASCE Aerospace Division of the Earth and Space Conference hosted a student robotics competition on space exploration this spring. In 2006 when the competition was last held, UA ECE students dominated the competition with their winning Lunar Rover Robot. This year, UA once again proved its capabilities to repeat a win in the new challenge. The task was to build a robot that would climb a 20-ft. tether. The team's Space Tether Robot was judged on speed with batteries, weight and beamed power. In

the end, the team of six freshmen and two sophomores tied for first place in the competition with a group of seniors from the University of California Santa Cruz.

A team of UA ECE students competed in the annual Intelligent Ground Vehicle Competition held in Michigan. The task was to construct an autonomous vehicle smaller than a golf cart that would negotiate a quarter-mile course. The UA team designed a robot on a wheel-chair base that included an array of sensors, vision system, on-board compass and 10cm GPS system. The team finished in the top 20 of the 47 teams competing.

## CHEMICAL AND BIOMOLECULAR ENGINEERING

Nearly 100 students from 30 regional universities participated in the 2008 AIChE North Central Regional Student Conference, hosted by The University of Akron student chapter of American Institute of Chemical Engineers (AIChE). Held in March, the conference was sponsored by The Goodyear Tire and Rubber Company. The keynote speaker for the conference awards dinner was Mr. Norman Wells, Jr., founding partner of SFW Capital Partners, LLC.

The UA Chem-E Car Team entered the Copper Chopper, a break away from the standard four-wheel flat-base car. The UA team finished among the top five teams and will advance to the National Competition to be held this Fall.



The UA Chem-E Car Team put their Copper Chopper to the test at the 2008 Central Regional Student Conference, held on campus in March.

## Did You Know?

Since 1990, The University of Akron student design teams have experienced significant success in the Society of Automotive Engineers-sponsored competitions. Using the professional Formula Car and NASCAR point systems, the UA SAE teams are number one in the world and have amassed more points than any other of the 170 universities competing worldwide.



Dr. Minel J. Braun has been named Distinguished Professor of Mechanical Engineering, an honor bestowed by the University upon a professor who excels in teaching and scholarly performance. He is the second active professor within the college to receive this prestigious honor. A member of the UA faculty since 1985, Dr. Braun has created four courses and has spearheaded the construction of several labs within the Mechanical Engineering department. Generating nearly \$10 million in research funding, Dr. Braun's research interests focus in thermofluids of bearings and seals, non-intrusive flow and thermal visualization, solid-fluid interaction, and energy management. This past spring, he received the College's 2008 Outstanding Researcher Award.



Dr. Nathan Ida received the UA honor of Distinguished Professor of Electrical and Computer Engineering in 2005. He is recognized nationally and internationally for his pioneering work in theoretical and computational electromagnetics, and the theory and application of electromagnetics to nondestructive testing of materials.

## Supporting Roles



Department of Development  
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### Keep in touch.

Send your current business position, personal information, and email address to either of the above addresses.

We would enjoy hearing from you.

## How can I help?

We are grateful for the generous support from our alumni, friends and partners. Without your help and dedication, many of our achievements would have been possible. There are several ways you can support The University of Akron College of Engineering:

**Annual Giving.** Perhaps the easiest form of giving and one with the most immediate impact is an outright donation of cash or real assets, such as stocks, bonds, property (including real estate or tangible property like artwork, lab equipment...).

**Endowments.** Donation of cash and real assets are used to create permanent support to attract and retain the best and the brightest engineering students and faculty. Endowed support can create endowed chairs, support research and education programs, student scholarships and provide funds for departments that might not otherwise be available.

**Planned Gifts.** A variety of long-term, planned giving options can support the college for many years. Please consider including the College of Engineering in your estate plans.

**Naming Opportunities.** The College has more than 66 research labs and other facilities centers that can be named, thus creating a lasting legacy.

**Questions?** We can help. Please call Dave Day at (330) 972-8508 or Kaye Bogue at (330) 972-8572 today.

### Measuring our Success One Student at a Time

The College of Engineering has successfully attracted the best and the brightest students for nearly 100 years. That's right, we will be celebrating our 100th year anniversary in 2014 – and we never looked so good! As our centennial approaches, our enrollment is vibrant. In Fall 2007, the College reported 1,759 undergraduate students, which is a 27.2 percent increase over our Fall 2004 enrollment. Our graduate program enrollment also reflects steady growth. We plan to continue this success. So please join us in celebrating 100 years of academic excellence – and then continue with us as we move forward with full force into the next 100 years.

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