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Fall 2003 Issue
University of Detroit Mercy College of Engineering & Science

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DENSO Team Design Center ready to open

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Design Center
ready to open](#)



Phase I of the DENSO Team Design Center stands ready on the first floor of the Engineering Building for students to work on group planning-and-presentation design projects related to the automotive industry. The Center, made possible by a three-year \$150,000 gift from DENSO North America Foundation, will be used by hundreds of students, including all freshman engineering students, by late fall. It is designed to effectively support the project-oriented education model for which UDM is recognized and the teamwork environment so prevalent in industry today.

[Visteon Prototype
Center bridges
gap between
design and
product](#)

The Center is scheduled to evolve through three phases over a three-year period. The first phase, recently completed, includes five team work areas each equipped with computers with AutoCAD - Release 14 software to support design efforts, a conference table, whiteboard and file cabinets. [more...](#)

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Welcome to *Impact*, a periodic web-based newsletter from the University of Detroit Mercy College of Engineering and Science. This "publication" is one example of our technology-enhanced efforts to communicate with alumni in the ways that will serve you best. This online communication will keep you informed about activities in the College, as well as what some of your fellow alumni are up to.

[Faculty Profile:
Michael Jenkins,
Chair, Mechanical
Engineering](#)

Other UDM Alumni Newsletters Online:
The Current (Business Administration)
Healthy Times (Health Professions)
The Highlighter & Laureate (Liberal Arts and Education)
The Nautilus (Architecture)


[Detroit's future
scientists and
engineers
participate in Tech
Day](#)

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Message from Dean Leo E. Hanifin

The Impact, Fall 2003

Leo E. Hanifin, M.E., D.E. has focused his teaching and research in the area of manufacturing efficiencies, processes and modeling. Hanifin has also held engineering and management positions in the automotive, aerospace, and computer industries. He has received the LEAD and Outstanding Young Engineer awards from SME, and the Outstanding Engineering Alumnus of the Year award from UDM. He holds B.M.E., M.E., and D.E. degrees from the University of Detroit. He joined the UDM College of Engineering & Science as dean in 1991.



We start another academic year with lots of great news and renewed enthusiasm for the future of our College. First, the quality and quantity of new students have both increased. The average test scores for incoming students have increased, and we enrolled seven freshmen who were valedictorians at their high schools. Overall, the full-time freshman enrollments in engineering and science increased 33 percent this year. The number of new graduate students increased 87 percent. We attribute these increases to the high ranking of UDM by U.S. News and World Report, our strong pre-college programs, the strength of our programs and dramatic improvements in our facilities, equipment and computing resources in the College.

Second, we continue to create unique learning environments for engineering and science. The Ford Center for Computing (labs for networking and distributed/parallel computing) was dedicated last spring. This fall we will open the Denso Team Design Center. Next spring we will complete the Visteon Prototype Center and two new manufacturing labs where students can fabricate what they have designed. In science, we have improved the Organic Chemistry Lab, are installing environmental chambers in Life Science and will finish a great chemistry seminar room by next spring. These laboratories, plus previous renovations, provide an extraordinary learning environment for our students.

Finally, the quality of our faculty has recently been extended and recognized. Five new faculty members joined the College this fall. All are scholars in their fields and all indicated that they wanted to join UDM because our mission and their values were closely aligned. Our continuing faculty have garnered many awards, including two top ones: Mark Benvenuto (Chemistry) was named the top college science teacher in Michigan and Shuvra Das (Mechanical Engineering) was named the top engineering teacher in the North Central Region of the nation.

As an alumnus of this College, these great students, faculty and resources make me very proud. I hope that you share that pride and "spread the word" about the college to your colleagues, family and neighbors . . . and stop by to see the great improvements to our College.

Leo E. Hanifin '69, '72, '75
Dean: College of Engineering and Science



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DENSO Team Design Center ready to open

The Impact, Fall 2003



Phase I and Phase II of the DENSO Team Design Center stands ready on the first floor of the Engineering Building for students to work on group design, analysis, and presentation of engineering projects related to the automotive industry. The Center, made possible by a three-year \$150,000 gift from DENSO North America Foundation, will be used by hundreds of students, including all freshman engineering students, by late fall. It is designed to effectively support the project-oriented education model for which UDM is recognized and the teamwork environment so prevalent in industry today.

The Center is scheduled to evolve through three phases over a three-year period. The first phase, recently completed, includes five team work areas each equipped with computers with AutoCAD - Release 14 software to support design efforts, a conference table, whiteboard and tackboard.

The second phase upgraded and expanded the design and central computing facility, including student access to UNIX workstations with up-to-date software for computational fluid dynamics modeling, finite element modeling, mathematics and other functions. This phase included the installation of 14 new Sun workstations. The third phase will create a distributed work environment by installing UNIX workstations, with appropriate software, in each of the center's five work areas and networking them to the Ford FACT Center, UDM Engineering and Science's central UNIX lab. This will allow the engineering students to use the advanced computing systems to apply and analyze data received in the central computing classroom.

Group-oriented projects may involve such systems and processes as climate control, structural analysis, suspension control or vehicle dynamics.

According to John Camp '63, '67, DENSO senior vice president, "The Center developed by UDM is an excellent application of DENSO's contribution to UDM and DENSO is proud to be a part of this project. The UDM team has done an excellent job. Personally, being an alumnus of UDM, I am especially happy to be a part of such a successful project."

The Center is DENSO's second contribution to UDM in recent years. In 2001, DENSO International America, North American headquarters to Japan-based DENSO Corporation, presented UDM with a \$30,000 gift that was used toward renovating a seminar-style classroom in the Engineering Building.

DENSO, a leading supplier of advanced automotive technology systems and components for the world's major car makers, operates in 30 countries with 87,000 associates.



Visteon Prototype Center bridges gap between design and product

The Impact, Fall 2003

Photos: The College's new Visteon Prototype Center allows students to test their design ideas by producing actual prototypes.

Step one - Student creates complex design on computer

Step two - Student generates 3-D physical object using prototyping equipment.

Step three - Student compares finished object to original design



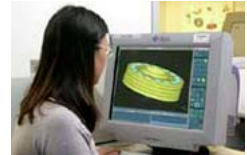
The College's new rapid prototyping system allows students to test their design ideas by producing actual prototypes that they can hold and examine. This system is the first component of the Visteon Prototype Center supported by a three-year, \$500,000 commitment from Visteon Corporation.

"This center will allow the faculty to teach engineering design in an entirely different and better way," says E&S Assistant Professor Nassif Rayess. "No longer will students have to use their imagination to bridge the gap between abstract design and physical realization."

Rayess explains that the proximity of the classroom to the state-of-the-art prototyping facility allows students to create complex designs on their computers, then generate 3-D physical objects with accuracy and ease using the prototyping equipment.

"This is done as easily as printing a picture, the difference being that a hard physical object that can be touched and felt becomes available," he continues. "Numerically controlled machining centers will allow students to build objects with very sophisticated shapes, removing obstacles to their imagination and ingenuity."

Students from freshman to doctoral candidates will have access to the design-build facilities to transfer their ideas into reality, emulating a workplace setting. The physical facilities for the Visteon Prototype Center will be constructed by next spring when the installation of extensive manufacturing resources will begin.



Ford Motor Company Fund grant promotes technical awareness, education

The Impact, Fall 2003

Photo: Dean of Engineering and Science Leo Hanifin speaks at the October 2 groundbreaking ceremony for an automotive technology wing at Southeastern High School.



The Oct. 2 groundbreaking ceremony of a wing dedicated to automotive technology at Southeastern High School in Detroit represented a major commitment to technical education for Detroit students. And UDM's College of Engineering & Science has a major role in providing technical education to high school students, particularly under-represented minorities, in southeast Michigan.



The program at Southeastern is one of five planned in 2003-04 through a two-year Ford Motor Company Fund grant to UDM for the Ford Partnership for Advanced Studies (PAS). Another five schools will be identified for 2004-2005.

Speaking at the ceremony, UDM's Dean of Engineering & Science Leo E. Hanifin says, "Our leadership in engineering and technology are crucial to the future of our nation and, in very special ways, to the future of Detroit. Without an adequate engineering team, the nation will have neither the products nor the security and defense systems to be a world leader."

He also comments that "a diverse technical team is a better team" for solving problems with ideas drawn from different cultural frameworks and for creating products responsive to diverse markets.

UDM is one of the first institutions of higher education to commit to the nationwide Ford PAS program aimed at helping high school students learn about and prepare for careers in science, technology and engineering. Community partnerships include the participating high schools, higher education (UDM locally) and business and industry partners. Partners represented at Southeastern High's groundbreaking, for example, included DaimlerChrysler, Farmer Jack, UDM and Ford.

"Ford PAS provides high school students with quality interdisciplinary learning experiences that challenge them academically and develop their problem-solving, critical-thinking and communication skills," explains Angela H. Polk, director of Ford PAS at UDM.

This fall, the program launches at Holy Redeemer and Southeastern High Schools in Detroit and West Bloomfield High School in suburban Oakland County. Additional potential participants include Southwestern, Cass Tech, Cody, Renaissance and Berkley high schools in metropolitan Detroit.

The curriculum has been developed by Educational Development Center Inc., an educational consultant to Ford. Polk will work with teachers and high school coordinators to incorporate the program's five courses (15 modules) into their academic curriculum. Teachers will also meet to share best practices and discuss any barriers to learning. Students will visit the UDM campus for enrichment activities using labs, instruments and computing systems not available at their schools. In addition, UDM faculty and other program partners will visit the participating schools.

Plans also call for a Business Education Advisory Council to serve as an advisory resource and provide access to and involvement of the business community.



President Bush recognizes Engineering alumnus with technology award

The Impact, Fall 2003

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Engineering alumnus and Ford Motor Company's Indian American researcher Haren Gandhi '68, '71, has won the highest honor bestowed by the U.S. president to leading American innovators: the 2002 National Medal of Technology.

Kolkata-born Gandhi received the medal at a White House ceremony on November 6. Besides Gandhi, seven scientists were honored for their contributions in various fields.

More about Gandhi and the award can be found in the [Detroit Free Press](#).

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More freshmen head to campus

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Recently created scholarships for E&S students

Continental Tieves (two granted in 2004)
DaimlerChrysler
Mike de Irala
DTE
Ford Motor Company
Kenneth Kramer - SME
Jerome Neyer -NTH
Henry Nickol
NSF CSEMS
Kevin Olmstead
Kirsten DeLong Phillips
Helen Scholl
Yazaki (two granted in 2004)

2003 valedictorians enroll in E&S

The following 2003 high school valedictorians are currently enrolled as freshman in the College of Engineering & Science:

Debra DeKay, pre-dentistry major from Port Huron Northern High School

Rosimar Rodriguez, mechanical engineering major from Western International High School

Linda Strommer, biology/pre-med major from St. Agatha High School, Redford

Laurel VandePutte, engineering major from Ortonville High School

Bryan Vos, pre-med major from Trenton High School



Responding to UDM's marketing efforts and availability of scholarships, the number of freshmen in the College of Engineering & Science's fall 2003 class is the second largest since 1990. The total of 135 freshman is up from 98 two years ago and was exceeded only by the 157 incoming freshmen in 1994.

Of the 135 freshmen, 56 will focus on Engineering, with the remainder targeting such areas as biology, biochemistry, computer science, math, pre-dentistry and pre-medicine.

"I attribute a lot of this growth to our new marketing efforts focusing on the message 'We want great things for you,'" explains Michael Joseph, vice president of Enrollment and Student Affairs. "In a cooperative effort, Marketing and Public Affairs, Admissions and consultant Lipman Hearne of Chicago, developed a new marketing campaign. The ads and placements in high school newspapers hit the right tone with prospective students."

Other marketing efforts, including a phone campaign by the Admissions Office, with the assistance of Dean Leo Hanifin and the faculty, were very effective.

Also contributing to the increase was the "healthy" scholarship program at UDM, which Joseph said helped not only the College of Engineering & Science but all programs at the University, which saw an overall 34 percent increase in the freshman class with 486 students. With funding from corporations, alumni and other sources, UDM hopes to continue the scope of scholarships available to help attract academic achievers.

"We were very pro-active in providing scholarship information to top-tier students early in the recruitment cycle," Joseph adds. He cited that the average ACT score of the incoming freshman in Engineering & Science is more than a full point higher than the average two years ago.

"The increase in the numbers and the quality of incoming students provides a platform for moving forward," he says. "We'd love to see 180 to 200 freshman in Engineering & Science. While looking at quantity, we obviously intend to keep our focus on quality."

To learn more about establishing or contributing to UDM scholarship programs, contact Nancy Devine, executive director of Development, at 313-993-1250. To review UDM's new advertising and recruitment materials, [click here](#).



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Alumnus Profile: Edward P. Harbulak

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Edward (Ed) P. Harbulak '59, '62, of Allen Park, has been involved with the University for almost half a century. Armed with bachelor and master of science degrees in chemistry from the University, he spent his approximately 30 working years primarily in electroplating research and then later applying his expertise to numerous automotive engineering applications at Chrysler Corporation.

His career began in 1962 with General Electric, where he was involved in the development of luminescent phosphors for fluorescent lamps. From there, he moved to Owens-Illinois Glass where he worked in the Special Projects Group on a variety of glass-related problems. He found his calling in electroplating research at M&T Chemicals, where the first of his 12 patents was for a zinc-electroplating process. Other patents followed through the years for various stripping, nickel electroplating and brass plating processes.

After M&T, he joined Chrysler Corporation, where he developed an electrochemical diagnostic test, which in less than 10 minutes provided more information about the performance of chromium-plated exterior automotive components than a 48-hour accelerated-corrosion test being used. The new test was then used by the entire plating industry. The development won him the American Electroplaters Society's Don Wood Award for the best technical paper in 1980 and the Society of Automotive Engineer's Award for Excellence in Oral Presentation for a paper presented at its 75th Congress.

During Chrysler's 1980 financial difficulties, he joined the Udylite Division of OMI International where he developed that company's first commercial electroless nickelplating process.

In June 1984, he returned to Chrysler Corporation as a materials engineer in the Electroplating Group of the Metallurgical Engineering Department. There, he served as a liaison with the styling and engineering design groups to insure the feasibility of designs for platability. He also was involved with writing plating-process standards and working with suppliers on problem solving. He retired from DaimlerChrysler in 1991 as a senior materials engineer.

He was a member of the American Electroplaters Society, American Chemical Society and SAE. He is a past chairman of the Inorganic and Physical Chemists Group of Detroit.

Looking back, he says, "When I decided to major in chemistry, I had no idea that my career would be in the field of electroplating and corrosion. Those were topics that were barely mentioned in my coursework. But the chemistry, math and physics courses I took at (then) U of D provided me with an excellent foundation on which to build the new skills and additional knowledge I needed to succeed in the technical world."

To his surprise, his non-technical courses also proved beneficial.

"I had no idea of the tremendous number of reports, proposals and publications required in the working world," he explains. "The ability to write coherently and speak with ease in public can be almost as essential for success as technical expertise. The required courses in composition, literature and public speaking, which at the time seemed useless to my perceived needs as a chemist, proved to be of significant benefit.

"Even in retirement, I still benefit from my education as I work on numerous hobbies and am involved in volunteer work. My many fine instructors prepared me for a successful career and also instilled moral and religious principles that are even more important in today's world."

A longtime University supporter, Harbulak remains involved with UDM; he recently spoke to one of the General Chemistry classes.

Faculty Profile: Michael Jenkins, Chair, Mechanical Engineering

The Impact, Fall 2003



Internationally recognized for his work in standards and codes for advanced materials, Michael Jenkins joined UDM in September as professor and chair of the Department of Mechanical Engineering. He brings expertise in the thermomechanical behavior of composite and monolithic structural ceramics, damage mechanics and experimental mechanics.



Jenkins previously was a professor and associate chair of Mechanical Engineering at the University of Washington in Seattle where he had also served as an associate professor and assistant professor. At U-W, he supervised more than 40 undergraduate independent-study projects, several of which achieved wide recognition.

Prior to joining the academic community, he was a development staff member and research engineer at Oak Ridge National Laboratory in Tennessee, where he focused on the characterization of the elevated-temperature tensile, flexural and fracture properties of monolithic and composite ceramics.

Jenkins received his undergraduate mechanical engineering degree from Marquette University in his native Wisconsin, his master's from Purdue University, and Ph.D. from the University of Washington. Upon receiving his doctorate, he was an invited researcher at the Institute of Industrial Science at the University of Tokyo.

His career also has included work as a test project engineer at PACCAR Technical Center in Mount Vernon, WA, where he was charged with devising and supervising the testing of vehicle components, and a project engineer at Art Anderson Associates in Bremerton, WA. There, he was a special project engineer for the development of computer software for consulting work in marine engineering.

Registered as a professional engineer in both Tennessee and Washington, he also served as a consultant for various companies.

He is actively involved in seven professional organizations. A fellow of The American Society for Testing and Materials, Jenkins was elected chair of the organization's Committee C28 on Advanced Ceramics. In a related event, he recently was elected vice chair of ISO TC206 on Fine Ceramics. He has authored numerous articles and presentations and is in the process of co-writing a text book on applied fracture mechanics.

A recognized educator, he has served summer faculty fellowships at NASA-Glenn Research Center in Cleveland, Ohio, and the Boeing-Welliver Program in Seattle.

Jenkins sees his role at UDM as an opportunity to "give something back to the Jesuit educational system that has played such a major role in the success of my professional career. I take pride in the breadth of the education I received at Marquette University that instilled in me the skills and drive for life-long learning."

He continues, "My commitment to quality undergraduate education and the Jesuit traditions of excellence in higher education is unwavering. I believe in the pedagogical soundness of experiential learning and the insight students gain from 'doing and then saying.'"



Detroit's future scientists and engineers participate in Tech Day

The Impact, Fall 2003

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More than 600 future scientists and engineers from 22 high schools throughout metro Detroit attended Technology Day on October 17. Hosted by UDM's College of Engineering & Science, Tech Day began with the annual UDM Chemistry Magic Show, engineering displays and exhibits with several corporate displays from companies such as Ford Motor Company, DaimlerChrysler and Visteon.



This annual event aims to educate high school students about engineering and science and how fun it can be. Many students have little understanding as to what a mechanical engineer or a chemist does. Through Tech Day, participating students gain a stronger interest in the engineering and science curricula as they realize science is more exciting than many people think.

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Faculty Tidbits

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Faculty recognized for years of service

The following Engineering & Science colleagues were recognized for their years of service at the University on November 20:

40 Years

John O'Neill, S.J., professor, Mathematics

35 Years

Michael Skaff, professor, and associate chair, Mathematics & Computer Science

20 Years

Shulamith Schlick, professor, Chemistry/Biochemistry
Uptal Dutta, professor and chair, Civil and Environmental Engineering

10 Years

Stokes Baker, associate professor, Biology
Jonathan Weaver, associate professor, Mechanical Engineering



Shuva Das, associate professor, Mechanical Engineering, received the ASEE Best Teacher Award for the North Central section.

Sandra Yost, CSJ, associate professor, Electrical and Computer Engineering, was named Zone Two chair for the National Board of Directors of ASEE.

David Lee, director, Manufacturing Engineering Program, was elected and inducted as president of the Society of Manufacturing Engineers. SME is an international professional society dedicated to serving its members and the manufacturing community.

Kevin Daimi, professor and chair, Mathematics and Computer Science, was elected as a Fellow of the British Computer Society.

New Faculty

The College of Engineering & Science welcomed the following new colleagues at the start of fall term:

Leslie Berhan, assistant professor of Mechanical Engineering/Civil Engineering, received a bachelor of science degree from The University of the West Indies, a master's degree in Civil Engineering from MIT and a Ph.D. in Mechanical Engineering from University of Michigan. Previously, she worked at University of Michigan and Albert Kahn Associates.

Michael Jenkins, chair and professor of Mechanical Engineering, received his Bachelor of Science in Mechanical Engineering from Marquette University, his master's degree from Purdue University and his Ph.D. from University of Washington, Seattle. Prior to joining UDM, he was a professor and associate chair of Mechanical Engineering at University of Washington.

Lazaros Kikas, instructor of Mathematics, received both his Bachelor of Science in Electrical Engineering, and his Master of Science in Mathematics from UDM. He also holds a Master's in Applied Mathematics from University of Maryland-College Park and is pursuing his Ph.D. in Applied Mathematical Science from Oakland University. He previously taught at Saint Mary's College in Notre Dame, Ind.

Betty Lee, instructor of Math Education, received a Bachelor of Science in Mathematics from Wayne State University. She earned three master's degrees: two from Wayne State University (General Elementary Education and Instructional Technology) and one from University of Detroit (Mathematics). She is currently a doctoral candidate at Wayne State University. She taught in the Detroit Public School System for 20 years.

Ruth Miller, instructor of Computer Science, received her master's degree from the University of Houston, where she is a Ph.D. candidate. Miller has previously taught at the University of Toledo and Illinois State University.

Angela Polk, director, Ford PAS program, received her Bachelor of Science in Humanities from Lawrence Technology University. For five years, she was the program administrator for the Detroit Area Pre-College Engineering Program (DAPCEP).



Upcoming Events

The Impact, Fall 2003

Slide Rule Dinner - Saturday, March 27, 2004, 6 p.m. reception and 7 p.m. dinner/awards program, Lakeland Manor Banquet and Catering facility, 26211 Harper Ave., St. Clair Shores. Save the date, and look for more details in January.



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How to Make a Gift to the University of Detroit Mercy

The Impact, Fall 2003



Generous [contributions from alumni and friends](#) of the University of Detroit Mercy support The Fund for UDM, strengthen the University's outstanding scholarship program, renovate facilities, and enhance academic programming.

All gifts – regardless of their size – help ensure the continuing quality of a University of Detroit Mercy education. Your gift supports the project of your choice. A gift to The Fund for UDM provides the University with flexibility to use your contribution for high priority activities. If you want to restrict your gift to a specific college, school or program, please indicate your intent when you make your contribution.

[More information](#) about giving can be found on our University web site.

Father Albright Hall

A major renovation planned for the college is Father Albright Hall. We have raised approximately half of the money needed to complete this project; with support from alumni, we can reach our goal.

Gerard Albright, S.J., has been a professor of Biology at our University since 1960. He is a dedicated professor who demanded much from his students and challenged them to achieve their best. For many of you, he served as an advisor and counselor as you planned your futures. The College and the University would like to honor him appropriately for over 40 years of distinguished and selfless service.

Father Albright has truly lived out the Jesuit mission through scholarly teaching and careful advising of his students; their development and well-being has always been one of his top priorities. He has periodically chaired the Biology Department, serving a total of 15 years in that capacity. As he lived side-by-side with students in the dorms for more than 23 years, Father Albright has always been able to provide sound advice and perspective, selflessly sharing his time and insight.

In honor of all that Father Albright has done for his students, the College of Engineering & Science is planning the major renovation of the Life Science lecture hall. The name of this hall where Father has spent so much of his teaching career will soon be "Father Albright Hall."

For more information on how to give to the Father Albright Hall project, contact Marc Melamed, director of Development, College of Engineering and Science, at 313-993-1510 or melamedm@udmercy.edu.



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