First to graduate

Eric Kosch was the first Iowa State student to graduate in the newly combined engineering/MBA degree program this past spring. Kosch, from Iowa City, finished school with a BS in industrial engineering as well as the MBA. He says it didn’t take any extra convincing to decide this was the perfect program for him.

"I'd always anticipated coming back for my MBA at some point anyway," he says. "Getting the degree now means I won't have to complete a four-year, part-time MBA later on. It also means I won't have that invisible ceiling on the corporate ladder."

"The real eye-catcher," Kosch continues, "was that I was already planning to get a minor in business, which would have meant being in school for four-and-a-half years. The dual program meant five years, but to move from a minor to a master's with just one additional semester seemed like a no-brainer to me."

The new program, which started last fall, reduces by one year the time normally required to earn both degrees. Students take an accelerated program through the first six semesters to complete general education requirements. Over the final four semesters, engineering requirements are integrated with MBA courses.

Two other students—Neil Hines (Morse Bluff, Nebraska) and Brook Richardson (Fairfield, Iowa)—began the program last fall. They both expect to graduate in the spring of 2007.

Student awards

Brad Bishop was selected as the Steel Founders’ Society of America Fellow. As part of the fellowship, Bishop completed an internship at the Falk Corporation in Milwaukee and presented the results of his internship at the SFSF Conference in November 2005. His work was published in the December 2005 issue of Modern Casting magazine.

In addition to the internship, Bishop received a $5,000 cash award.

Bishop also received a scholarship from the H. H. Harris Foundation for his interest in the metalcasting field. Cory Samuelson and Greg Saveraid received scholarships from the foundation as well.

Saveraid also had the results of his summer research published in the December 2005 issue of Modern Casting magazine.

Zaid Rabadi was awarded one of Pella Corporation's grant award scholarships last December. The $5,000 scholarship is awarded to select few interns and co-op students working for the company.

In addition to his participation in the intern/co-op program, Rabadi was selected based on his demonstrated leadership abilities, his performance during an interview, and his resume.

Industrial engineering and marketing student Stephan Zalesky was chosen by Dean of Engineering Mark J. Kushner to serve as commencement student marshal for the December 2005 commencement ceremony.

Zalesky, who graduated with a 3.65 grade-point average, was an ambassador for the department and the College of Engineering, making time to speak with visitors, including alumni as well as prospective students.

Faculty awards

Associate Professor Sarah Ryan was recently named an associate editor of Naval Research Logistics: An International Journal. The publication is a premier peer-reviewed journal in operations research, applied statistics, and general quantitative modeling.

In recognition for his significant achievements and leadership in manufacturing engineering, IMSE Assistant Professor Matt Frank is the recipient of a 2006 Branimir E von Turkovich Outstanding Young Manufacturing Engineer Award. The award, presented by the Society of Manufacturing Engineers, is named in honor of Dr. von Turkovich for his lifelong contributions to manufacturing and long-time support of SME.
Adams announces retirement

Associate Professor Keith Adams retired at the end of the spring semester after more than 30 years in IMSE.

"I'm 68 now," Adams says about his decision to retire. "I'm healthy, and I think it's a good time to move on to other things."

Adams started working at Iowa State in 1974, teaching classes in diverse areas such as ergonomics, quality control, safety engineering, and production systems. His research interests lie in many of the same fields and also include human reliability, as well as work methods and standards.

In addition to teaching and doing research, Adams has stayed involved with many professional society offices and committees—the Institute of Industrial Engineers, the American Society for Engineering Education, the Iowa Academy of Science, and the Human Factors Society. Adams is also a member of Sigma Xi and Alpha Pi Mu.

Adams says he plans to stay active with the university, even after retirement, helping with research and proposal writing, especially in human computer interaction (HCI). "HCI has opened up new research possibilities," he says. "I can work on proposals with faculty here on topics in human factors engineering and safety."

When he’s not helping at Iowa State, Adams plans to spend more time traveling with his wife, Eileen. "We'll have a little more free time because we won't be bound by the school bell like we have been in the past," Adams notes. "It's nice to travel and visit places in the fall because there aren't as many tourists and you still have nice weather. It's a good time to see things."

Adams adds that the decision to retire didn't come easy. "It's hard to do," he says. "I enjoy teaching, and I know I'll miss the kids a lot."

IE Turns 50...

Staying up until 4 a.m. working on a senior design project. I still remember the smell of rubber from the tire plant we were working in.

—Pat (Hoffmann) Banks (BSIE'94)

The GE (General Engineering) head was "Shorty" Paine.

—Keith Moburg (BSEngr'39)

All pleasant memories of ISU—especially Professors Walkup and Black. I received a wonderful education that enabled me to have a very rewarding life.

—Chester W. Diercks, Jr. (BSEngr'50)

All night endurance senior design (IE 441) project session.

—Dan Bumblauskas (BSIE'03)

Graduated in 1941 with a great bunch of students; some were exceptional and went on to outstanding achievements. Iowa State was and is an excellent college.

—Thomas Hoak (BSEngr'41)

As a freshman getting lost, running to, falling, and finally making it to my first midterm exam.

—Jim Carter (BSIE'82)
alums share their memories

Spending all of VEISHEA (4 days then) working on our final project for IE 277. Moving from Marston to the Engineering Annex and having class in the NuE basement with Don Eichner.
—Leslie (Baker) Potter (BSEIE’91)

World War II started during my senior year. Professor Lynn Hummel taught Sales Engineering. It was a wonderful course and helped with my career at Alcoa. In 1942, major companies were recruiting on campus and offering $150 per month.
—Lynn Edward Gleason (BSEEng’42)

During a lecture in 1955, the instructor stated that the currently bulky televisions would be reduced to a thickness where TVs would hang on a wall like a picture. I thought no way!! Thanks to Iowa State for excellent vision.
—Ed Riedesel (BSIE’58)

Met my wife of 64 years at the Baptist Student Center in Ames. Took calculus from Professor Atanasoff my second semester at Iowa State. I believe it was the same semester he invented the computer. I don’t remember anyone getting a passing grade.
—Charles W. Wilson (BSEGr’41)

I’m very privileged to be one of ISU’s earliest IE grads … EDUCATION is EVERYTHING in the equation of success.
—Charles G. Therkildsen (BSIE’60)

It was fun learning about metal casting from Dr. Peters. We were in the Engineering Annex. One of our pours got messy and ran off of the sand and onto the cement. The cement exploded!!! I will never forget that even a small amount of moisture in concrete is enough to cause big problems.
—Marla Hansen (BSIE’98)

I remember a picnic attended by general engineering students and faculty. Two of the professors joined the students in a softball game. After the game the students threw the professors in a pond, and a fight broke out. Bad idea!! WORRY, WORRY … would we graduate the next week or not? Apologies were exchanged, and all did graduate in June 1950.
—John E. McCombie (BSEEng’50)

Dr. Montag (right) with Kraig Downs in a time study lab, 1989.

Dr. Montag with her chalk- and hand-lotion-covered hands.
—Dane Bogaard (BSIE’88)

• Don Grant’s flattop
• Gerald Smith’s 5-inch-tall stack of scratch paper on his desk
• John Even’s high-riding pants
• Dr. Squires’ stories about China
• Collective bargaining in IE 425
• Fun at IE banquets
• Being an instructor teaching IE 209 and all my class notes flying out a window in Marston
• Ric Malstrom’s method of circling the classroom
—Brad Meyer (BSIE’79, MSIE’81, PhDIE’89)

Senior IE engineering field trip to Chicago in 1959. We were busy every day, and the White Sox had just won the American League pennant.
—Ray Edlund (BSIE’60)
1929–1942
Frank D. Paine
first department chair

1930
1931
First PhD in engineering valuation awarded

1931
Depreciation and the "Iowa Curves" are most often associated with research and study in engineering valuation; first published in 1931, Iowa curves have been used to describe forces of retirement acting on physical property and intangible assets

1934 Slide rule class (top) and engineering problems class (bottom)

1940
1942–1973
Joseph K. Walkup
department chair

1945
Letter to President Dickey from the faculty regarding the college's name change to the University of Iowa.

Paine coins VEISHEA acronym

The term VEISHEA was coined by Frank Paine in 1922 by putting together the first letters of the five colleges on campus at that time: Veterinary medicine, Engineering, Industrial Science, Home Economics, and Agriculture.

Paine, a professor of electrical engineering when he coined the term, was also instrumental in the construction of Iowa State's Memorial Union and later served on its board of directors. In addition, he served as the mayor of Ames from 1938 until his death in 1942.

The history of IMSE

Engineering Hall

The Department of Industrial and Manufacturing Systems Engineering (IMSE) celebrates its 50th birthday in 2006. In reality, however, the department is quite a bit older than that: it became industrial engineering in 1956, but the core curriculum started way back in 1919.

That's the year an industrial engineering option became available for mechanical engineers. J. O. Keller, who graduated from Penn State in 1914, came to Iowa State to direct the new program. Keller was one of the first students in the country to earn an IE degree.
In 1926 a general engineering curriculum was started, and in 1929 the Department of General Engineering (the predecessor to industrial engineering) was established with offices in Engineering Hall (now Marston Hall). The GE curriculum consisted primarily of classes in electrical, mechanical, and civil engineering, as well as many classes in economics. There were only two GE courses (both personnel related) in the original curriculum.

**Frank Paine** was the first department chair, serving in that position from 1929 until he died of a heart attack in 1942.

**Joseph Walkup** was appointed the new department chair in 1942, staying until 1973. During his tenure, many changes were made, including moving the general engineering department closer to the IE concept. Accordingly, an IE option was prepared and eventually offered in 1946. By 1955, the ECPD Accrediting Committee recommended that the department change its name to industrial engineering. The Board of Regents accepted the recommendation, and the change was made on July 1, 1956.

At that time, the department had 197 undergraduate students and three labs in Marston Hall. The curriculum was equally split between engineering and management through most of the 1960s, 70s, and 80s.

In 1989, IE became the Department of Industrial and Manufacturing Systems Engineering (IMSE), and the curriculum focus changed from engineering and management courses to manufacturing and operations research courses. Also that year, IMSE moved into the Engineering Annex, which allowed the department to increase the number of labs from three to six.
In 1999, with input from the Industrial Advisory Council, engineering students, and companies that historically hired IMSE engineering students, the department moved to reinstate management concepts as a significant part of the curriculum. Also in 1999, IMSE moved again—this time to Black Engineering. That move increased the number of laboratory facilities available for students and faculty in the department to 16.
The number of undergraduate students has continued to rise since management concepts were reinstated. In spring 2006, there were 292 undergraduate students, 16 working toward an MS, and another 22 in the PhD program. In addition, there were 30 students in the systems engineering ME program who have declared IE as their home department.

As the economy continues to become more global, so does IMSE. In one undergraduate course, for example, students are teamed with peers from international universities to complete projects. In addition, nearly 20 percent of IMSE students travel overseas to study as part of their work toward an undergraduate degree at Iowa State.

Also, the department continues to reach a wider audience through courses offered by engineering distance education. Students can now earn an MS degree completely online. On-campus students find the online lectures very useful as well for reviewing difficult topics. As technology continues to improve, so too will the method in which IE's online courses are delivered.
### 2006–2007 scholarship recipients

<table>
<thead>
<tr>
<th>Scholarship Type</th>
<th>Name(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Iowa Chapter of IIE</td>
<td>Jenna Meier</td>
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<tr>
<td>College of Engineering</td>
<td>Tasha Brown, Chelsea Griswold, Lisa Kruse, Justina Lillard, Jaron McNeal, Joe Petzelka, Abby Siemek, Carly Sitzmann</td>
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<tr>
<td>Don Grant Incentive</td>
<td>Carissa Overstreet, Benjamin Peart</td>
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<tr>
<td>Edward Henry Ohlsen</td>
<td>Megan Law</td>
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<tr>
<td>Geraldine M. Montag Scholar</td>
<td>Jay M. Messerly</td>
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<tr>
<td>Guy W. Morrison</td>
<td>Michael Youngblut</td>
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<tr>
<td>Hempstead-Walkup</td>
<td>Katherine Jensen, Jo Hannah Tripp-Ricks</td>
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<tr>
<td>IMSE General</td>
<td>Heather McCall</td>
</tr>
<tr>
<td>Keith L. &amp; Helen F. McRoberts Health Care</td>
<td>Christopher Sweem</td>
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<tr>
<td>L. C. &quot;Doc&quot; &amp; Lina Allen</td>
<td>Darren Bolger</td>
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<tr>
<td>Marion and Andrew Pontius</td>
<td>Trevor Muchow</td>
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<tr>
<td>Material Handling Education Foundation</td>
<td>Brook Richardson</td>
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<tr>
<td>N. A. and Joan Lambert</td>
<td>Stephanie Stall</td>
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<tr>
<td>Rockwell International</td>
<td>Lisa Kruse, Abby Siemek</td>
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<tr>
<td>Roderick Seward, Flossie Ratcliffe</td>
<td>Jennifer Guinn, Megan Law</td>
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<tr>
<td>&amp; Helen M. Galloway</td>
<td>Matthew Owens, Michael Rickers, Marie Rohwer, Natalie Schlesselman, Beth Takemoto</td>
</tr>
<tr>
<td>Webster Manufacturing</td>
<td>Jenna Pritchard</td>
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**Lynn Franco, Editor**

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