Hall of Fame

Joe Farrar and Robert Iotti, distinguished alumni from mechanical and nuclear engineering, were inducted into the K-State College of Engineering Hall of Fame Nov. 3.

Induction to the hall is the highest honor bestowed on its alumni by the college. Honorees are recognized for their professional success and accomplishment, active involvement with and support of the College of Engineering, dedication to K-State, and professional and public service.

Farrar, Manhattan, ME ’70, is president of Farrar Corporation, a privately owned company specializing in the design and production of fully machined ductile iron cast parts for approximately 140 original equipment manufacturing customers in 28 states and Canada. He has served as a member of the board of directors of the Manhattan Area Chamber of Commerce and the Ductile Iron Society of North America, where he currently is president. He is active in the advisory boards of the Manhattan Area Technical College and K-State Advanced Manufacturing Institute, as well as the College of Engineering Advisory Council. Farrar was recognized by the Governor’s Achievement Award for Manufacturing in the North Central Region in both 2000 and 2007.

Iotti, Manalpan, N.J., NE ’64, M.S. ’67, Ph.D. ’70, is a licensed professional engineer. He assumed the duties of president and chief executive officer for CH2M-WG Idaho where he led the Idaho Cleanup Project of spent nuclear fuel in 2006. Prior to this post, he had served as senior executive responsible for all nuclear activities at CH2M HILL, with revenue scope in excess of $1 billion a year. Prior to joining CH2M HILL, Iotti built and directed a commercial industry division responsible for nuclear technology. His division was instrumental in the design and construction of several nuclear power plants in the U.S. and abroad. He was appointed at the request of the DOE to serve as the administrative officer for the International Thermonuclear Experimental Reactor.

Professional Progress Award

Eleven alumni were also honored at the Seaton Society event for professional career accomplishment during the first 20 years following their graduation. Representing the mechanical and nuclear engineering department in this group were Sheila Hayter and Brian Linin.

Hayter, Golden, Colo., ME ’90, completed an M.S. in mechanical engineering from the University of Colorado in 1997. She joined the U.S. Department of Energy’s National Renewable Energy Laboratory in Golden, Colo., in 1992 where she is currently a senior engineer with the energy management and federal markets group. She is a licensed professional engineer in the state of Colorado and a Leadership in Energy and Environmental Design-accredited professional. Hayter is active in the American Society of Heating, Refrigerating and Air-Conditioning Engineers where she has been awarded the
Greetings! By the time this newsletter reaches you, the holiday season will be upon us. On behalf of the mechanical and nuclear engineering department’s faculty, staff, and students, it is a great pleasure and honor for me to extend greetings of the season as well as my heartfelt gratitude for your continued interest in and support of the department.

- It is a great pleasure to welcome our new dean of the College of Engineering, John R. English, who began his new post in late July. Dean English succeeds Dean Terry King, who left K-State in 2006 to serve as provost at Ball State University. Dean English had been head of the department of industrial engineering at the University of Arkansas, Fayetteville, since April 2000, and a faculty member there since 1991.
- Four distinguished MNE alumni were recognized by the College of Engineering during the annual Seaton Society Banquet. Joe Farrar, a 1970 mechanical engineering graduate, and Robert lotti, a 1964 nuclear engineering graduate, were inducted into the College of Engineering Hall of Fame. The Hall of Fame is a prestigious honor bestowed on successful alumni. Sheila Hayter and Brian Linin, 1990 and 1993 mechanical engineering graduates, respectively, were awarded the Professional Progress Award, which honors successful alumni in the midst of their professional careers.
- In the past few years, we have upgraded computer and controls labs, and the student shop, and established new technology and senior design classrooms. This summer we renovated the measurement and instrumentation lab and replaced old work benches with beautiful new workstations complete with all new equipment.
- Several students received prestigious national awards and scholarships including Jacob Benteman, Waterville; Manuel Garcia, Ulysses; Emily Dringenberg, Parsons; and Christopher Calcara, Great Bend, who were awarded the Dow Chemical Foundation Scholar Award. Samuel Brinton, Perry, Iowa, was named the Dow Chemical Outstanding Junior. Students awarded scholarships from the American Nuclear Society were Brinton; Alan Cebula, Goodland; and Amir Bahadori, Kansas City, Kan. Mary Sprouse, Leawood, received the National Tau Beta Pi scholarship, and Calcara received the ConocoPhillips SPIRIT scholarship.
- The department’s undergraduate enrollment continues its upward trend reaching 660 in fall 2007, and extramural research funding has surpassed $5.3 million per year. We have witnessed a tremendous interest and growth in our nuclear program as well.
- Faculty member Bruce Babin was the recipient of the James L. Hollis Memorial Award for Excellence in Undergraduate Teaching from the College of Engineering. Daniel Swenson and Kevin Lease received the MNE department’s Outstanding Educator and Outstanding Advisor recognitions, respectively, and Eric Patterson received the MNE department’s Outstanding Staff/Professional Service Excellence Award.
- We are making great strides in creating the Big 12 Nuclear Engineering Consortium. We held a two-day summit in Kansas City in September, and began forming the policy and practice infrastructure of the consortium. Nuclear engineering courses are being delivered via the Internet by the four Big 12 universities with nuclear engineering programs to students at the other Big 12 universities without nuclear engineering programs.

We are grateful for the generosity and continued support of our alumni and corporate partners.

Undoubtedly, the department is doing extremely well in all areas of teaching, research, and service. Our alumni, students, faculty, and staff are successful. I encourage you to visit and tour the department, and witness the excitement and enthusiasm of our team. As always, your suggestions for improvements and generous financial support to your alma mater are greatly appreciated.
Measurements lab remodeled, refurnished

The MNE Measurements and Instruments Lab received a long-overdue upgrade this past summer. The basic layout of the lab had not changed in almost 20 years. With the help of Eric Patterson, MNE computer information specialist; Warren White, MNE associate professor; and Mo Hosni, MNE department head, the lab got a complete makeover with all new equipment and furniture. An estimated $50,000 was spent remodeling the lab, money well spent according to students who took the course previously.

A good portion of that money was spent on new equipment. The lab received new oscilloscopes, digital multimeters, computers, power supplies, an instructor station with a projector and camera, and new data-acquisition hardware. With the lab instructor now able to demonstrate the lab using the projector and camera, the student has more time to do the lab instead of moving back and forth between tables. Also, the new oscilloscopes can be directly connected to computers so pictures can be downloaded instantly via a USB cord. This compatibility between the new equipment allows for quicker labs and better utilization of the students’ and instructor’s time.

In addition to new equipment, all new furniture was purchased. Previously, space in the lab was not being utilized effectively. Students would have to go back and forth to watch demonstrations and groups had to work in separate

continued on page 10

Speaking of MNE Women . . .

Fall 2007 semester activities of the Mechanical and Nuclear Engineering (MNE) Women organization included holding bi-monthly meetings and hosting a variety of guest speakers. The group’s mission is to provide a social network for women in the MNE department and host development activities. Membership includes both undergraduate and graduate MNE women, providing a strong base of mentors for incoming freshmen.

The group is working to better connect faculty and students by inviting faculty to come and speak at meetings. Professor Kirby Chapman discussed his work in the National Gas Machinery Laboratory and participated in a pre-enrollment panel discussion. Bruce Babin, assistant professor, also visited with this year’s group and discussed the classes he teaches and his areas of research. Babin also shared about how he and his wife balance their work and family roles, and answered students’ questions about being a professional and a parent.

In addition to meetings, MNE Women also coordinate presentations open to all MNE students. During the All-University Career Fair, representatives from Chevron Phillips discussed their company’s work and the role of mechanical engineers. The K-State Pollution Prevention Intern Program gave a presentation on the opportunities available to students within their department.

In the upcoming semester, the group plans to sell MNE polo shirts to raise funds for a trip to the Kansas Cosmosphere and Space Center in Hutchinson. Members will also continue to accompany the AIAA student group when it visits with local schools about careers in science and engineering.

Erin Carlson
Advisor, MNE Women
K-State’s SAE Aero Team finished the 2007 season with an outstanding record, culminated with winning the Aero Design West competition at Van Nuys, Calif. That win made K-State a huge target at the Aero Design East competition where the team placed sixth out of 51 teams overall in Ft. Worth, Texas, and third place among domestic teams.

For 2008, the team will again compete in the regular class. The rules were modified and now state that the plane’s maximum height, wingspan, and length must add up to be equal to or less than 175 inches. All entrants must also use an unmodified, .61-cubic-inch engine specified by the Society of Automotive Engineers and have room in the fuselage for a payload of a 5x5x10-inch block. These rules challenge the teams to create new ideas and utilize emerging technology.

The year began well with many returning members and even more newcomers. The team’s goal is to maximize the weight carried on the plane while adhering to the design restrictions. The focus will be on construction efficiency and new technologies and techniques to lighten the plane.

The team will be investigating new wing tips and construction methods as well as possibly designing a radically new fuselage. The aero team plans to utilize facilities and programs available at K-State, such as the mechanical and nuclear engineering department’s wind tunnel, to test various scenarios and techniques.

The K-State Mini-Baja Team ended the year at the SAE Mini-Baja West competition in Rapid City, S.D., in May 2007. The highlight for the team was placing 10th in the Rock Crawl Dynamics Event. This accomplishment has given the team motivation to improve the design and performance of the off-road vehicle for the 2008 SAE Mini Baja Competition in Edwards, Ill. The team will be designing and manufacturing an off-road vehicle that must perform well on harsh terrain.

The design of the car must be as simple as possible, to keep in mind the purpose of introducing a new consumer item that could easily be produced on an assembly line. All SAE teams are provided with a 10-HP Intek Model 20 engine donated by Briggs & Stratton, which must remain unmodified. This limitation causes the team to be creative in its engineering design.

The team plans to incorporate successes of last year’s car along with new ideas for improvement. Two main adaptations are planned for this year—improving steering maneuverability by shifting the weight distribution forward and improving the efficiency of speed control by using a multi-speed gearbox transmission. Another challenge this team faces is re-designing the ergonomics of the cockpit to accommodate for a wide range of drivers.

The experiences of a dozen dedicated new members are being combined with the knowledge of the returning members to improve the overall design. The team is eager to implement these new changes and face new challenges.
The K-State Solar Car Team has finished the design stages and is beginning construction on its newest car, GaAsoline, the fifth addition to K-State’s solar vehicle fleet.

As always, the team is trying to come up with new designs to stay ahead of the competition. To build on past success, the team will utilize the experience acquired from the construction of Paragon, the previous car, combined with new ideas and methods. One of the new design ideas being considered houses the motor inside the wheel itself. This car will also be K-State’s first entry to have an array made completely out of gallium-arsenide solar cells. These cells, typically used for outer space applications, are much more efficient than standard solar cells and will greatly improve the car’s available power.

Don’t think that these students spend all of their time designing and constructing cars; they remain a very active part of the College of Engineering. The team travels regularly to display its current car. They also recently sent representatives to provide information about electric and solar cars to a crowd after watching the film, “Who Killed the Electric Car?”, a Movies on the Grass film and discussion at K-State. The team has many knowledgeable people who are excellent ambassadors of K-State and the College of Engineering.

Since the team began in 1995, it has taken pride in doing all of its own design and as much of its own construction as possible. This year will be no different. Building the car themselves gives members a greater understanding and knowledge of the car. The nature of the solar car’s design requires that team members have a large range of skills and expertise. Students know the cars inside and out.

The team is excited to be competing in the North American Solar Car Challenge (NASC) in 2008. K-State’s GaAsoline will be competing against other universities’ cars from all over the United States as they race across the country using only the power of the sun. The race, sponsored by the Toyota Corporation, will begin in Austin, Texas, and will travel north to the U.S.-Canada border. To track the progress of the team and to donate, visit the team Web site at www.ksusolarcar.com.

ASME chapter expands activities

The 2007-2008 American Society of Mechanical Engineers at K-State has begun the year with more than a tripling of membership and is a confident team working on the newest large-scale projects.

This growth started with a strong foundation built last year. The K-State ASME Chapter was able to bring in exceptional speakers to intrigue and instruct its members. Professor José Sánchez-Dehesa from Polytechnic University of Valencia in Spain visited to share his work in sonic-crystal construction and experimentation. Sánchez-Dehesa was followed by Eric Davis, an interior engineering manager from Cessna. Davis spoke about the intricate systems required to keep the inside of private jets comfortable despite the tremendous temperature changes occurring on the plane exterior. Also speaking last year was Keith Thayer, former president of ASME International, who spoke about specific mechanical engineering landmarks that have occurred recently.

This year ASME is holding a monthly meeting series called “Nuts, Bolts, and Integrals.” This lecture series consists of professors from the MNE department sharing their research interests with the members. The hope is that this will connect students and professors outside the classroom in a comfortable atmosphere that will allow professional relationships to be formed.
This is an unbelievable journey—it has been about 40 years since my departure from K-State. I am so glad I came!

“This is a wonderful event—it brought back so many good memories!”

“I had not seen my classmates for over 30 odd years—oh my—such a marvelous event.”

These are sample comments of the alumni who attended the 50th anniversary and reunion of the nuclear engineering program, an enjoyable and memorable event for all.

The department of mechanical and nuclear engineering (MNE) celebrated the 50th anniversary of the nuclear program in April during the All-University Open House. The K-State nuclear engineering curriculum was established in 1952 within the department of chemical engineering. The first class of nuclear engineers graduated in 1956. By 1958, K-State was one of the first universities in the country to have a separate nuclear engineering department and was the first program in the nation to receive accreditation. The nuclear department merged with the mechanical department in 1996, and the department’s name was changed to the mechanical and nuclear engineering department.

On April 13, 2007, the MNE department welcomed distinguished alumni and former faculty members to a weekend of fun-filled activities and memories. The celebration began Friday with a reception and banquet with nearly 200 people attending. Tom Roberts, BSNE 1970, was the master of ceremonies for the evening. Mo Hosni, department head, Richard Gallagher, interim dean, and Alfred Cochran, assistant provost, welcomed the alumni and their family members and guests. The banquet keynote speaker was Larry Foulke, BSNE 1960 and former president of the American Nuclear Society. He gave an outstanding talk entitled “50 Years of Accomplishment—Setting the Stage for a Nuclear Renaissance and the Next 50 Years.”

Artistic renditions of the KSU TRIGA MARK II nuclear reactor and its Cerenkov glow (blue blow) were the table centerpieces at dinner, thanks to the inspiration of Dale Schruben, BSNE 1967, who suggested the idea and helped with the design. The backstage was decorated with various memorable photos including a large picture of late Professor Kimel, the first department head of nuclear engineering, 1958-1967. Nuclear engineering students also attended the dinner and sat with alumni. At the end of the evening, the students handed out nuclear memorabilia to commemorate the event.

Saturday’s reunion activities began in Fiedler Auditorium on campus with a welcome by Ken Shultis, director of the nuclear engineering program. The nuclear faculty also gave presentations about their current work and research. After the presentations, Shultis opened up the floor for stories and memories from the alumni. The two alums who were the first graduates with BS degrees in nuclear engineering in 1956, Sam Sinderson and Dick Shimer, were present to share their stories. The first graduating class of nuclear engi-
neers from the chemical engineering department included Bill Blubaugh and Bill Kitterman. Blubaugh, who resides in California, was unable to attend the reunion, but was kind enough to send his remarks and his diploma for the occasion. Kitterman, a WWII veteran who also served at Los Alamos, has passed away.

The first female to graduate as a nuclear engineer, Nancy Landers, BSNE 1964, shared her experiences with fellow alumni. She recalled that when she started the program, she had to travel all the way to the library to use the restroom because there wasn’t a female restroom in the engineering building. She also shared that she wasn’t allowed to wear slacks on campus. Many other alumni shared entertaining stories about school, and commented on how K-State gave them a fantastic start to whom and where they are today.

The remainder of the morning was spent touring research and teaching laboratories and the TRIGA MARK-II nuclear reactor in Ward Hall, followed by a group luncheon. The reunion was a memorable event and alumni had an enjoyable time reminiscing, catching up, and meeting current students.

Additional pictures are posted at www.mne.ksu.edu/reunion.
Focus on space and aviation

The American Institute of Aeronautics and Astronautics (AIAA) is the world’s largest professional technical society devoted to the progress of engineering and science in aviation, space, and defense.

This past June, K-State’s chapter of AIAA competed in the 43rd AIAA Joint-Propulsion Conference Student Design Challenge sponsored by the Air Force Research Lab at the Wright-Patterson Air Force Base in Dayton, Ohio. The mission profile was to fly a radio-controlled airplane through a predetermined course while spotting targets and consuming power. The competition focused on design and integration of a power plant, a power-consuming device, a video-surveillance camera, and a data-downlink system.

Last fall, AIAA students presented the Air Force with a proposal outlining their solution and received a grant to complete the project. Construction and integration took up the spring semester.

Three students, Lacey Hull, Amy Howell, and Brandon Svitak; Bruce Babin, AIAA advisor and MNE assistant professor; and Matthew Knox, pilot, traveled to Dayton, Ohio, to compete against seven other teams. The competition took place on June 15, 2007. The K-State team experienced technical issues, but learned much from the experience.

AIAA has also begun a community outreach program. In the spring, Hull, Howell, and Babin traveled to elementary and middle schools to promote math and science by giving presentations and demonstrations about rockets. This year, AIAA is looking into extending this program to include other topics.

Goals for the current year are to compete in another AIAA design competition and design and build a high-powered rocket.

By Justin Kaeberle
MNE senior

Formula car team looks to improve, build on past growth

The 2007 Formula SAE Design Team competed in the annual Formula SAE competition, in Detroit, Mich. This was the second consecutive year the team designed and built a car within one year. A 76th-place finish overall out of 130 teams bettered a previous best of 92nd. Although the car ran out of gas with only 500 yards remaining in the endurance race, the team was pleased to finish well overall.

The group is off to a quick start this year by re-evaluating last year’s sponsor proposal presentation and informational packet. It has been confirmed that Salina Steel will be donating the tubing for the space frame, and the team will reuse the electromotive ECU it received from a Formula alumnus last year. The design process is off and running as the team establishes new modeling techniques due to a switch to a solid-works CAD package this year. The suspension team has all but finalized this year’s design; the ergonomics team is prototyping shifter designs; the drive train team is looking for machining sponsors; and the engine team is already manufacturing parts and test fixtures.

The team has six seniors and several underclassmen ready to build K-State’s best car to date. The group will head to Fontana, Calif., in June 2008 for the Formula West competition with a goal of finishing the endurance race and placing in the top 40. Another goal is decreasing the weight of the car. Last year’s team dropped 70 pounds from the overall weight of the car and the new goal is to drop another 40 pounds (down to 450 lbs) by packaging designs more efficiently. Dual-team-leader positions for all five sub-teams have been created to alleviate team-leader stress and workload. The restructuring will allow more studying time while ensuring stability of the team.

By Cayle Harmon-Moore
MNE Senior
Big 12 Nuclear Engineering Consortium

Nuclear engineering was a popular topic in the 1960s and 70s, attracting many of the best engineering students. Graduates went on to successful careers at the national laboratories in nuclear medicine, at utility companies, and in various industries. In the 1980s and 90s, graduation rates in NE declined drastically, partially because of the Three Mile Island and Chernobyl accidents. Nevertheless, by the year 1990, nuclear engineering accounted for 4% of the gross domestic product. Young nuclear engineers, however, were not being trained to replace those retiring and in the early years of the 21st century a national crisis developed in terms of trained nuclear engineers.

The crisis has several fronts. First, the nuclear engineers trained in the 1960s and 70s were retiring, with few new nuclear engineers to replace them. Second, utilities around the world realized the need for nuclear power and other countries were quick to seize the momentum. It is now the case that most nuclear vendors are foreign. The U.S. has lost its leadership role in nuclear engineering, not only in the electric power industry but also in other areas.

The situation is particularly alarming since the U.S. must maintain a strong deterrent nuclear weapons program, must deal with international nuclear proliferation issues, and must deal with the growth in nuclear power and the attendant need to manage nuclear waste. The U.S. will also be well served to continue to develop advances in nuclear medical and industrial applications. Thus, there is a serious national need to educate engineers capable of dealing with nuclear issues.

In spring 2005, the Big 12 engineering deans met in Washington, D.C., and discussed the potential to create a “Big 12 Nuclear Engineering Consortium.” In this consortium, four schools within the Big 12, Kansas State University, University of Missouri Columbia, University of Texas Austin, and Texas A&M University, which have nuclear engineering departments, could collaborate to offer nuclear engineering education—certificate, option, minor, or training programs—to the other Big 12 schools.

The mechanical and nuclear engineering department at Kansas State University took the lead in developing this consortium. The Big 12 Nuclear Engineering Consortium evolved in the past two years. Currently, it is the only consortium in the country that is providing such educational opportunities in the important area of nuclear engineering.

The U.S. Department of Energy (DOE) provided seed money to encourage the development of the Big 12 Nuclear Engineering Consortium and tuition assistance for undergraduate students taking the nuclear distance courses. The DOE support was followed by a grant of $631,000 from the U.S. Department of Education’s Fund for the Improvement of Postsecondary Education to Mo Hosni, head of mechanical and nuclear engineering department, and Sue Maes, interim dean of the Division of Continuing Education, to study higher education policies affecting the development of the Big 12 collaborative curricular partnerships.

A national higher education strategy council will assist Big 12 teams of provosts, chief finance officers, registrars, financial aid directors, deans, department heads, state higher education executive officers, and regional accrediting association directors in overcoming policy barriers encountered while implementing the Big 12 Nuclear Engineering Consortium. Overcoming these policy barriers and developing new financial and academic policy agreements will break new ground for long-term Big 12 higher education programs of the future.

At a summit held Sept. 13-14, 2007, Big 12 engineering deans, financial officers, registrars, and nuclear engineering education representatives began forming the policy and practice infrastructure of the consortium. The group was supported by representatives from the Iowa, Kansas, Missouri, and Nebraska higher education governing boards, the north central and south central accrediting bodies, regional post-secondary commissions, and the national Higher Education Executive Officers organization.

Summit participants agreed that distance education was a key component to dealing with the need for new nuclear-trained graduates. It is time-consuming and expensive to start up new programs in nuclear engineering. Reactors cost tens of millions of dollars. Nuclear faculty members are difficult to find. Leveraging existing programs via distance education is the most rational solution.

The Big 12 Nuclear Engineering Consortium addresses the shortage of nuclear-trained engineers on a regional scale, i.e. within the Big 12 conference. Nine courses have been offered by distance education and one of the Big 12 schools, Iowa State, has already established a minor in nuclear engineering. We are pleased that the mechanical and nuclear engineering department at K-State is providing a good service in an area of national interest. We envision developing a National Nuclear Engineering Distance Education Consortium based on the success of the Big 12 Nuclear Engineering Consortium.

Mo Hosni
MNE department head
Emeritus faculty member Professor Naim Z. Azer and Mrs. Beverly Azer recently established a graduate scholarship in the MNE department. Azer was a longtime member of the mechanical engineering faculty who contributed significantly to all areas of teaching, research, and service.

Azer first came to Kansas State University during the 1958-59 academic year, returning in 1964 until he retired in 1993. He was a respected teacher and productive researcher in the thermal science area for nearly 40 years. Over this time, Azer was active in several academic societies including ASHRAE, where he achieved the Fellow grade of membership—awarded to only 15 members per year. He was also a recipient of the ASME Distinguished Service Award for his lasting contributions to the Journal of Applied Mechanics Reviews.

His research efforts had a significant impact on two areas—the first, the connection between human physiology and spot cooling, where development of mathematical models of the human physiological response to the surrounding thermal environment were made. The second area was the study of mechanisms concerned with boiling and condensing refrigerant heat transfer. His work in augmentation of condensation heat transfer attracted repeated support from the National Science Foundation.

Azer’s approach to research problems showed students and the academic community his unique skills and enthusiasm for doing good work. He often carried his research findings to the classroom where his courses were relevant and well attended. Students were his number one priority. He taught several undergraduate and graduate courses, and touched many young lives. Former students continue to inquire about him. In establishing the Azer Graduate Scholarship, he once again showed his support for the students and K-State. He has made additional contributions to the university, including the donation of a Sandzen painting to the K-State Beach Museum of Art.

The first Azer Scholarship was awarded in the 2007 fall semester to Evraam Gorgy, a Ph.D. student pursuing research in the area of two-phase flow and heat transfer. In accepting the scholarship, Gorgy said, “I am most grateful to be selected as the first recipient of the Naim Z. and Beverly J. Azer Mechanical Engineering Graduate Scholarship. I truly appreciate this generous gift, and the support and confidence in me to succeed.”

Contributions to Azer Scholarship are welcomed at the K-State Foundation, account number T51310.

Measurements lab

Students work on an experiment using new equipment.

Distinguished Service Award and serves on the board of directors.

Linin, Goodland, ME ’93, serves as chief financial officer for Frontier Ag, Inc., an agribusiness firm. He began his career with Procter and Gamble Manufacturing Company in Kansas City, Kan., and has since worked for ITW Dymon, Inc., and Liquid Soap Products in manufacturing and plant management. He is president of the board of the Goodland Area Chamber of Commerce and serves on the oncology advisory board to The Children’s Hospital in Denver.

Mary Sprouse
MNE senior

Department well represented

Mohammad Moradian
MNE junior

continued from page 3

rooms because there was not enough desk space for everyone. Now, with the removal of the storage closet from the corner of the room, there is more workspace for students to use. Also, with all new desks and stools, students can now sit at the same desk whether they are listening to a lecture, watching a demonstration, or doing a lab.

The lab itself has turned into an experiment of sorts, with stools brought in on the first day of class and the wiring being completed in the middle of the semester. The instructors are still trying to figure out the best way to utilize the new workspace and are constantly making adjustments. As technology changes and demands from the workplace change, there will always be improvements that can be made to the lab, a perpetual work in progress.
Dow Chemical 2007 scholarship recipients

Once again, the Dow Chemical Company has allowed the MNE department to award scholarships specifically created for MNE students. This generous contribution is made on an annual basis to reward promising students for their academic and leadership achievements. Four students were recognized as MNE Dow Chemical Foundation Scholars and one student received the distinction of being MNE’s Dow Chemical Outstanding Junior.

Jacob Benteman, Manuel Garcia, Emily Dringenberg, and Chris Calcara were awarded the MNE Dow Chemical Foundation Scholar Award. Each received a $4,000 scholarship.

Samuel Brinton was named the MNE Dow Chemical Outstanding Junior. This award includes a $1,500 scholarship and an internship with the company.

Front row, left to right: Sam Navarro, Manuel Garcia, Emily Dringenberg. Jacob Benteman. Back row, left to right: Jon Oakes, Ethan Young, Christopher Linnick, David Carr.

2007 supporters of MNE department

The mechanical and nuclear engineering department continues to grow and thrive, thanks in part to the donations of individuals and companies. We sincerely appreciate the generous financial support from our many alumni and friends. Those who have provided support November 2006 through November 2007 are listed below.

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Please support the department of mechanical and nuclear engineering at Kansas State University through your financial contributions and/or comments/recommendations on our curricular, research, and service activities. We are grateful for this partnership and hope you will consider supporting your alma mater.

Yes, I wish to demonstrate my support for the students, faculty, and MNE department programs with my gift of:

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I have enclosed my check in the above amount made payable to: The KSU Foundation and have noted on the memo line “for MNE dept. Excellence Fund.”

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Telefund 2008 reminder

Just a quick reminder that engineering students will be calling you the week of February 4 during Telefund 2008. When you get your call, please consider letting the caller know your gift is designated to the department of mechanical and nuclear engineering.

Like the MNE newsletter?

Let us hear from you

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