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Dear Alumni and Friends:

It is again my pleasure to update you on recent developments in the Department of Mechanical Engineering. I am pleased to inform you that the department continues to build on the positive momentum that we have developed over the past few years. The number and quality of students who elect our program continues to increase, our faculty continues to grow, and the plans to update our facilities are taking shape.

This year, about 920 students enrolled in the College of Science and Engineering’s freshmen class, up from about 800 just four years ago. At the same time the ACT scores and high school rank of the incoming class improved significantly and are now on par with even the most selective private colleges in the state. From my own experience of teaching our undergraduate thermodynamics class this Fall semester, I can assure you that our undergraduate students are sharper than ever. They definitely keep you on your toes!!

Professor Tom Chase, ME’s Director of Undergraduate Studies, and faculty on the scholarship committee had a hard time deciding between the many deserving candidates for scholarship support. At a recent luncheon for undergraduate fellowship winners, Tom and I had the pleasure to present scholarship certificates to 35 of our most outstanding students. On behalf of these students, I would like to thank all of you who have decided to support our undergraduate students to make their education more affordable. Your support is invaluable and helps us bring some of the best students into the ME program.

I am equally pleased with the trajectory of our graduate program. Professor Jane Davidson, ME’s Director of Graduate Studies, does a phenomenal job recruiting some of the brightest Masters and Ph.D. candidates into our graduate program. Again, I need to thank many of our alumni and friends for their philanthropic support. The fellowship support that we are able to promise prospective graduate students is an important piece in their decision to join our ME department. This support not only enables faculty to perform world-class research working with their graduate students, it also helps us to graduate highly trained professionals, who in many cases assume leadership positions in companies in the State of Minnesota.

This semester, two new faculty members joined our ranks. Professor William Northrop and James Van de Ven arrived this Fall to strengthen our programs in engine and fluid power research. With these newest additions to our faculty the number of ME faculty members has increased to 38 from 33 only four years ago. These colleagues are a welcome support to help ME deal with our increased enrollments. I am pleased that we will continue to rejuvenate our faculty with another two to three possible hires this academic year.

For the past few months, ME faculty and I have been working with an architectural and engineering design team on our three building projects: the renovation of the old Mechanical Engineering building, the renovation and possible move of the engine lab, and the update of our research machine shop, which serves researchers in the entire college by building custom research instru-
Accolades and Awards

Alptekin Aksan was promoted to Associate Professor, fall semester.

Traian Dumitrița was promoted to Associate Professor, fall semester.

Professor Wojciech Lipiński has received the Early Career Grant Award by the Initiative for Renewable Energy and the Environment to conduct research on solar thermochemical CO2 capture.

The Central Corridor Light Rail construction began on the campus this summer closing Washington Avenue in front of Coffman Union. When it opens, only the rail, buses, and pedestrians or bicyclists will have access. Green bicycle pathways have been painted on streets throughout campus and adjacent areas to help alert cars, buses and pedestrians of their presence.

The central corridor light rail line, which will continue along University Avenue to downtown St. Paul is scheduled for completion in March, 2014. The University will have three stops, on the west bank, at the corner of Washington Avenue and Union Street, and at the TCF Bank Stadium. For more information regarding traffic or parking at the U, please visit the Parking and Transportation website: www1.umn.edu/pts/.
ME Undergrad Awarded Astronaut Scholarship

Brett Neubauer, enrolled in Mechanical Engineering Department’s Integrated Program and the University Honors Program, received a $10,000 scholarship from the Astronaut Scholarship Foundation.

Neubauer is one of only 26 students nationwide to receive this scholarship, which is the largest merit-based scholarship program in the nation for undergraduate students in the science, technology, engineering and mathematics fields. Since 1994 the Astronaut Scholarship Foundation has distributed $191,000 to Astronaut Scholars at the University of Minnesota.

Neubauer is currently pursuing his bachelor’s degree in mechanical engineering. This past year he has been researching different methods for robotic locomotion, with applications for first response in disasters such as earthquakes, fires and chemical spills.

As a sophomore he designed medical testing equipment to study muscle deterioration in chronically ill hospital patients. He plans to pursue a master’s degree and is still trying to narrow down his interests within engineering. “This scholarship makes my aspirations of going to graduate school a reality,” he said.

This semester he is taking the Fluid Power Laboratory course, which he finds “fascinating.” He is also taking Introduction to Combustion, which he finds so interesting that he is planning to continue with a course on internal combustion engines in spring semester. With the Senior Design course and a new course, Engineering Modeling, he has a full plate. This doesn’t mean he has no time for hobbies, which include ballroom dancing, mountain and road biking, snowboarding, running, and playing the guitar. “I have been a member of a ballroom dancing club at the university, and I have developed a passion for dancing from this,” he said. “Every week I try to organize a group of people to go swing or salsa dancing in the cities. I love running and completed Grandmas Marathon a few years back, and I recently started playing the guitar.” During May term he studied energy production methods abroad in Iceland, Denmark, and Norway.

For Neubauer it is determination and hard work that he believes are the keys to success. “If you are hard working, if you have the drive, you can do anything,” he says. His long-term aspirations include becoming an engineer working in research and design.

There were several things along the way that drew Neubauer to mechanical engineering. “As a kid I used to build and take apart things to better understand how they work. My grandfather and I used to build go-carts together. I was down in his shop working all the time, and this is where I developed a passion for engineering,” he said. The ME course 2011 confirmed his decision to pursue engineering: “Building robots helped me narrow down my interest within engineering. Building something, programming it, and being able to watch it function before you is really exciting for me,” he said.

“These students are prime examples of everything Astronaut Scholars are supposed to be: intelligent, perseverant and destined for greatness,” said Gemini and Apollo astronaut James Lovell, who was scheduled to present the award in September, but had to cancel his visit.

The Astronaut Scholarship is the largest monetary award given in the United States to science and engineering undergraduate students based solely on merit. To date, more than $3 million has been awarded nationwide in scholarships to outstanding college students majoring in science, technology, engineering or math.

The Astronaut Scholarship Foundation is a 501(c)(3) nonprofit organization. Its mission is to aid the United States in retaining its world leadership in science and technology by providing scholarships for college students who exhibit motivation, imagination and exceptional performance in these fields. Today, more than 80 astronauts from the Mercury, Gemini, Apollo, Skylab, Space Shuttle and Space Station programs have joined in this effort.
Professor James Ramsey retires

James Ramsey, Professor Emeritus, retired at the end of Spring semester – May 2011. A party was held in the newly remodeled Aerospace Engineering atrium and was attended by family, friends, colleagues, staff and students.

Professor Ramsey held the position of Associate Department Head and Director of Undergraduate Studies for 26 years. In those two roles, which have since become two separate jobs, he saw the University go from quarters to semesters, lead a group of alumni in procuring private funds for the new addition to the ME building, which was completed in 2000, and advised countless students, helping them to navigate the curriculum and mentoring many to success.

After having graduated with his Ph.D. under Professor Goldstein in January of 1969, Ramsey went to work as a Research Scientist for Honeywell. He decided to return to academia in 1975 when he was hired by ME Department Head Richard Jordan. He initially worked on solar projects in conjunction with Honeywell, and became a member of the illustrious Heat Transfer Laboratory. Early in his career he worked closely with Professor Eph Sparrow on solar projects and taught the solar course.

Shortly after Professor Goldstein became Department Head he asked Ramsey to join the Environmental Division. Professor James Threlkeld who had headed that division had retired. Ramsey agreed. Then in 1983 Professor Thomas Kuehn joined the department. Thus began a long and happy partnership with Professor Kuehn. Together they taught the heating and air-conditioning first course, Thermal Environment Engineering 5103, alternating each year. They also revised the textbook, *Thermal Environmental Engineering*, that had been written by their predecessor, James Threlkeld.

It was Goldstein’s idea to combine the positions of Associate Department Head and Director of Undergraduate Advising, and he wisely chose Professor Ramsey to do these tasks, beginning in 1985. Ramsey also served as our interim Department Head for a year during the long and difficult search process after Professor Peter McMurry stepped down as Department Head. Ramsey said of his career, “I had the pleasure of working with three very good department heads, Goldstein, McMurry, and Kortshagen. I also had the opportunity to work with three very good administrators, Mary Hessburg, Barb Pucel, and Pam Wilson. That makes all the difference in the world.” He also had a word about Jeanne Sitzmann, our undergraduate student services support: “While acting department head and wearing all those hats, I think I would have quit if Jeanne had quit. She really helped me hold that activity together.”

Professor Ramsey continues to serve the department by attending management meetings, and has done some teaching for colleagues when needed. So what about retirement? He is traveling with his wife and friends to the Holy Land this fall, and pursuing digital photography.

left, Professor Ramsey with special guest, above, Professor Ramsey addresses the guests at his retirement party.
New Faculty Members join ME

We are pleased to introduce two new assistant professors who have joined the department this fall. Will Northrop has research interests in combustion engines and biofuels, and James Van de Ven works in designing and developing energy storage for renewable energies.

Will Northrop, mid-thirties, describes himself as a “motor-head turned academic.” He grew up in Rochester, New York, and knew early on that he was destined to become an engineer. He received his B.S. degree from Carnegie Mellon in 1997, and went straight to Chrysler following his lifelong dream of working with cars in Detroit. “I have always been interested in engines and how they function. They embody so many different parts of engineering – the combustion area, the fluid mechanics area, and the heat transfer area - all wrapped up in one package,” he said.

At Chrysler he worked in a rotational program, which eventually gave him an opportunity to work with a fuel cell group. The new technology excited him, but ultimately he decided that corporate auto companies were not where he wanted to be. He left to join a start-up company called Nuvera Fuel Cells, in Boston. “I was one of the first ten employees and I got to do everything; I designed devices, I made coffee, I made copies, I ran experiments, and did presentations. It was fantastic,” he said.

The experience was a turning point for Northrop as it made clear his desire to do research, and not be a product engineer. “I’ve always had a creative side and an engineering side, and I feel the research brought that together in a way that expresses my creativity through advancing technology. I want to be the guy making the decisions about what the next new thing is going to be,” he said. He spent five years at Nuvera, which grew to 150 employees.

At age 30, Northrop went to Ann Arbor, Michigan to pursue his M.S. and Ph.D. degrees. He chose Michigan because of its strong engines program. While there, he worked on a project with General Motors developing next generation combustion systems – how engines will use fuel in the future, which means, in part, making them cleaner and more efficient. He also worked on projects revolving around new combustion concepts, and how fuels, like biodiesel, perform when combined with advanced combustion modes.

After graduation he found himself back in the auto industry, at GM, working in their R&D group. This time it worked out well, because he was able to continue with research that he had begun in graduate school. But after a year and a half he realized that the academic life would fulfill him in ways that working in industry could not. “The teaching and mentoring of students is something I really enjoy. There is feeling of excitement, vitality, and energy,” he said.

Finding an academic position was challenging because the field of internal combustion engines research is small, even though engines themselves are ubiquitous. Because they work so well there has been less investment in them. Northrop believes there is still much to learn. “I believe that any technological innovation is really an evolution, and not a revolution,” he said.

A trip to Madagascar in 2009 with a team from Michigan to research biofuels made clear the practical nature of his combustion research. The local people burn wood for cooking, with the resulting smoke, burn candles for lighting, and run their cars on whatever fuels they can get. The researchers looked at the Jatropha nut, which has the potential for use as a more sustainable fuel source. The opportunity to make real improvements in people’s lives also gave Northrop a new commitment – to continue working with biofuels in the developing world as part of his research program.

He accepted the position here at Minnesota because of the strong tradition in engines research, and because of Professor David Kittelson, whose work in the diesel and aerosols area is so well known. Northrop believes that his knowledge and interest in combustion and fuels will contribute to the growth of the laboratory, and make it comparable to the strongest engine research universities in the world. With the addition of Professor Northrop, the mechanical engineering department will continue its excellent program in these areas.
Northrop is married, has a daughter, and another child on the way in January. He is an avid cyclist and plans to make the ten-mile ride each way, year-round, “if I can convince my wife to let me buy some winter riding gear,” he said. With a young family and his university duties, he has little time for hobbies. “I heard someone say, ‘When you work as a university professor your hobby is your job.’ I love the things that I am working on. I can go out to the lab and play with engines and talk to students. It’s great.”

A familiar face has appeared on the third floor. Jim Van de Ven is back in ME as a new assistant professor. He received his Ph.D. from this department in 2006 and was advised by Professor Art Erdman. He also did a one-year post doc with our fluid power research center. He accepted a faculty position at Worcester Polytechnic Institute, in Worcester, Massachusetts in 2007. While at WPI, Van de Ven had the opportunity to teach eight different courses. He taught freshman, as well as junior and senior level classes. With its strong focus on teaching, WPI faculty teach three courses per year. Van de Ven also developed two new graduate courses there, one on renewable energy, and one on advanced kinematics.

After four years as a faculty member at WPI, he said, “I felt like I was able to develop a strong research direction, and know exactly what I want to be doing, which is applying machine design to energy conversion and energy storage.” His background in design brings a different approach to energy research, as most researchers come with expertise in thermodynamics, heat transfer, and fluid dynamics. “Coming from the design side offers a lot of opportunities for collaborative work, which I am finding here,” he said.

Van de Ven grew up in Minnesota and did his undergraduate mechanical engineering degree at the South Dakota School of Mines and Technology, Rapid City, South Dakota. Upon entering graduate school here, his interests initially were in the machine design/kinematics area, but ultimately he worked on a laser welding project, sponsored by Andersen Windows. During his post-doc appointment, he worked with Professors Perry Li and Kim Stelson, in the newly funded Engineering Research Center for Compact and Efficient Fluid Power. He was able to help set up the laboratory and redirected his research focus to energy storage and energy conversion, as well as other fluid power related work.

Because of the University’s size and reputation, and the department’s reputation, Van de Ven also knew that the kind of research he wants to do is more possible here. “The opportunity to get bigger grants was a big draw,” he said. The NSF sponsored ERC was another reason to join the faculty at Minnesota. This spring Van de Ven will be teaching in the Fluid Power Control Lab course.

A primary focus of research today is in finding ways to get renewable energy into the grid. Because renewables, like the sun or wind, are not a constant source of power, the search for a way to store that energy is a major goal. One of Van de Ven’s projects is dealing with compressed air energy storage for offshore wind turbines. “If we can store energy at the source, then we can downsize all the power transmission capabilities. So instead of transmitting at peak power loads, we can transmit at average power, or the demanded power. So we can get some cost savings in addition to providing a buffer between the supply and demand,” he explained.

He is also working with flywheel energy storage – storing rotating kinetic energy, for mobile vehicles and heavy equipment. Larger vehicles, like construction equipment and trucks are especially suited for hydraulics, so adding energy storage that is compact enough will make them more efficient and decrease power consumption.

Coming back to Minnesota was an easy move, as his wife is from Iowa, and he grew up here. “The Midwest is a good fit for our family,” he said. Van de Ven is an avid outdoorsman who enjoys the Boundary Waters, in summer and winter, doing winter camping with skis and sleds. And speaking of energy, he is another bicycle commuter, going fifteen miles each way. But as he says, “I don’t make time to go to the gym.” He also has to keep up with a one-year old son.

Above: Will Northrop in the Engines Lab, right: Jim Van de Ven
Mechatronics course goes global

Studying abroad has long been a tradition of a liberal arts education, but there have been fewer opportunities for students in the sciences and engineering. Dean Steven Crouch made it a priority of his administration to build study abroad opportunities for students in the College of Science and Engineering. Tomorrow’s engineers will have global careers. Whether working in the United States or abroad, they will collaborate and solve problems with people from many countries. The goal is for fifty percent of CSE students to have a global experience.

Back in 2001 Professor Art Erdman organized the first global campus experience for CSE students. Erdman had been to Zurich a number of times as they were putting together a local cluster of medical companies that wanted to interface with like minded companies and Universities in the U.S. As part of these activities, there was strong interest by the University of Applied Sciences/Zurich in a mutual student exchange program.

“We made a visit to the University in Winterthur, (thirteen miles NE of Zurich) and it turned out that one of the specialties in the engineering department was mechatronics, which was an ideal match for us because mechatronics isn’t just focussed on mechanical engineering students, but all CSE students. There is not a major in the college that does not contribute to either computers, electronics, or mechanical systems,” said Erdman. So in 2001 he brought 30 students over, and they have been continuing this program every other year. This year Prof. Erdman and Assoc. Adjunct Professor Frank Kelso accompanied another group to Switzerland.

The program is held during the May term and is three weeks in length. “Typically there are 25 students in the program, which is based on the available room they have in their mechatronics lab. Scholarships for the program are available and most students get $500. If a student is getting financial aid it can be applied to this program. There is also an opportunity for two of the students to be student leaders for which they receive a stipend,” explained Erdman. They earn three course credits for their participation as well.

Jeremiah Kornder had never been out of the country before, “not even Canada or Mexico,” he said. “The study abroad experience exposes you to different things – it is not 100% different than ours, but there are subtle differences that you wouldn’t think about, like how they make street lamps, how close the houses are to one another, or how they build houses. The working environment is different too. I had an internship after the course in Germany. It makes you think about how other countries do what they do, and how we fit into the picture, and how we interact with other countries. I tried to use my German and made an effort to do so. Switzerland is super small but their output is incredible. To see that was really cool. I can now say that while I was at the U of M, I went to Switzerland and Germany.”

This year the students worked on unmanned robots, built from Lego Mindstorms™ kits. They needed to design robots that could pick up materials on a simulated lunar surface, and bring them to a desired target. The course was set up as a competition among five teams. Each team came up with a proposal, which they had to justify, and then build and test - all in a three-week window.

“In three weeks you cannot get too deep or technical, but it does teach you to work with others because there is too much for any one person to do,” said JKornder. “So you have to delegate and communicate with your group members. This was tough for some people. We had a short time period and not all of our robots turned out very well; ours tied for last in the competition. But it exercised your imagination – because you are creating with Legos™ and you’re thinking about real-world applications - like lunar rovers,” he said.

They toured Ruag, the Swiss Space Agency. “Ruag makes all sorts of booster fairings and rocket components that feed the European space effort,” said Kelso. “We showed up with 25 students at this big facility and they rolled...
Aaron Korkko, a senior in mechanical engineering, enjoyed using his German language skills. “I really liked being in a smaller city which made it easier to explore; but even for a small city, Winterthur has a rich history.” It was Korkko’s first trip out of the country, “I have always wanted to travel and this was a good starting point for me. The May term appealed to me because it would not interfere with my normal scheduled coursework.” Boarding at a guesthouse (a bus ride away from the University) gave the students a chance to view the town and its occupants going about their regular routines, like seeing the Farmers Market every morning. He is now interested in pursuing an internship at Ruag.

Alexandra “Allie” Paidosh, a senior, attended the May term course and is spending the fall semester at the University of Agder in Grimstad, Norway. “I originally heard about the course, Mechatronics in Switzerland, when I was a freshman. I very much like to travel and like to think I have a global perspective, and since I did not go very far away to attend school, studying abroad was always a priority of mine,” she said.

The program is not all about work, though. Interspersed with the production and programming of robots the students went on bus tours – to Munich and the Alps. “They work Monday through Thursday and then leave Friday on a tour, and come back Sunday, so it goes fast,” said Erdman. “We had a very enthusiastic team this year, and they really got caught up in the competition. They were borrowing my key for the building in the evening to work; it’s great fun. Students from past years have told me that they always remember this as a key experience of their education.”

What started out as a one-way global experience for our students has blossomed into a true exchange program. University of Applied Science students are now coming here, working with Professor Tom Chase. “They developed equipment for his research on mines,” said Kelso. “They took it from concept to production. Chase really enjoyed working with people who had had so much hands-on experience.” This connection is also bringing Swiss students to Minnesota. “I’ve had a Masters student with me for six months now, and he is doing great, working with one of the “Docs” on campus. I’ve had a couple others that have come for a U of M Masters Degree,” said Erdman.

These exchange students also become hosts to our Minnesota students. “Upon arrival,” said Paidosh, “we were introduced to our ‘Swiss Buddies,’ who were our unofficial guides to the area and consisted of students who had traveled to our university the previous summer. They were absolutely fantastic for showing us around the area and going-out with us and introducing us to their friends. I am still in contact with several people from Switzerland that I met while there.”

Since 2001, the College of Science and Engineering has been growing its offerings for study abroad. The current study abroad programs span the globe and can have a technical or communications focus, be a paid internship, or a volunteering opportunity. “I was very lucky that I could easily fit study abroad into my plan, but I know that it is often very difficult for engineering students, worried about fulfilling all of their required courses, to study abroad and graduate in four years,” said Paidosh. “Studying at a partner university makes it much easier to get classes approved as technical electives (Dr. Chase was wonderfully helpful for me), and additionally there is the option to shuffle around your classes and fulfill your liberal education requirements abroad,” she said.

The programs are meeting a real demand from industry. “We have ME Day events in which alumni visit and one thing that I hear every year is that they would like students to have more global perspectives and experiences. It is nice to have a European exchange program at a uni-
Photos, both pages, clockwise from top left, Professor Lipinski explains his solar research, in the Human/Design Lab, in the High Temperature Plasma Lab with Professor Girshick, alumni reconnect at reception, the solar simulator, alumni and friends at reception (2 photos), the SAE formulae vehicle, in the plasma lab, and audience listens during a presentation.
The department Homecoming Event was a resounding success, in spite of the Gophers. Alumni, friends and family gathered for stimulating presentations by Professors Lipiński (solar fuels), Durfee (rehabilitation engineering), Girshick (nanoparticles and plasmas), and members of the Formula SAE Vehicle (SAE’s new design). Tours of the laboratories showcased in the talks followed the presentations. Then everyone gathered for a reception before the CSE Barbecue and parade. It was a lovely day and we enjoyed seeing you.
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ME News Fall 2011
Former ME Students win Red Bull Competition

Creation - a competition by the energy drink company, Red Bull, asks teams of inventors to create the future. With the theme - ENERGY IN MOTION, and 72 hours, the teams had to build something useful, imaginative, and inspiring. Two recent ME alumni took the challenge.

Dillan Hodapp (ME ’07), Nathan Knuston (ME ’06), and former ME Researcher, Ben Arcand, formed the team - 1.21 Jigawatts, travelled to NYC to build their creation and they won 1st Place, and a $5,000 prize.

Dillan Hodapp explained, “Sixteen competing teams needed to build a contraption that could move around 100 pounds without using fossil fuels directly, and it had to have a ‘wow’ factor. In 72 hours we managed to design and build an 8 foot tall human-powered hamster wheel that dragged behind it a dot matrix printer that used spray paint cans to mark the ground. The machine could receive text messages and would print those messages on the ground as the machine rolled along propelled by the human in the wheel.”

In Memoriam

Gerald R Bell BME 1971 March 16, 2011
Everett E. Beson BME 1949 April 28, 2011
Mark S. Borman BME 1981 June 22, 2011
Gregory M. Chrysler PhD 1984 August 11, 2011
Robert D. Conner BME 1967 October 3, 2011
Arlan Dobbs BME 1979 June 14, 2011
Jerry Ekberg BME 1943 October 3, 2011
Ralph Enzmann BME 1951 September 29, 2011
Gerald R. Fenn BME 1951 March 27, 2011
Carl D. Elving BME 1951 June 9, 2011
Nathan Knuston BME 1951 June 13, 2011
Charles W. Hixon BME 1965 September 10, 2011
Kathryn L. Hogan BME 1951 October 19, 2011
Herbert C. Johnson BME 1943 June 25, 2011
Robert W. Johnson BME 1951 June 16, 2011
Joseph M. Jeulich BME 1984 August 16, 2011
William E. Kahler BME 1948 August 8, 2011
Richard Kirkes BME 1950 June 3, 2011
Raymond C. Kittelson BME 1961 April, 2011
Glenn C. Kording BME 1971 April, 2011
Victor W. Parsons BME 1949 August 25, 2011
Dorothy M. Lee BME 1958 August 10, 2011
Haizhang Li PhD 1993 March 15, 2011
Rolf G. Ljungkull BME 1953 April 5, 2011
Paul M. Lubratt BME 1964 May, 2011
Richard E. Luger BIE 1953 August 7, 2011
Nathan R. Malby BME 1990 September 7, 2011
Charles D. Maytum MS 1950 September 1, 2011
Karl M. Nelson BME 1973 August 1, 2011
Victor W. Parsons BME 1949 May 17, 2011
B. J. Profi BME 1948 June 15, 2011
Jacob A. Ronning, Jr BME 1952 August 8, 2011
Edwin J. Seder BME 1940 August 5, 2011
Edward Silberman MS 1936 July 5, 2011
William E. Sterling BME 1944 April 14, 2011
Wallace D. Templin BME 1956 September 17, 2011
David F. Thomas BME 1940 June 7, 2011
T. F. Tolppi BME 1962 September 5, 2011
Ernest L. Unruh BME 1956 July 30, 2011
Ralph L. Webb PhD 1969 April 3, 2011
David P. Webb BME 1969 August 2, 2011
Alfred Wendt BME 1961 April 30, 2011
Malcolm H. Wilkin BME 1946 August 20, 2011

Save the Date:
Design of Medical Devices Conference
The University Hotel, Minneapolis (formerly the Radisson Hotel) April 10-12, 2012
Registration starts January 2, 2012
www.dmd.umn.edu/
Meeting with ME Alumni in Seoul, Korea

In June, 2011 Professor David Pui traveled to Korea giving seminars at Samsung Semiconductor, Samsung Mobile Display, and at the Korea Institute of Science and Technology (KIST). A group of Particle Technology Laboratory alumni, together with Professor Jung Yul Yoo (an AEM alumnus) gathered for an alumni dinner.

There are approximately 60 UMN alumni in the Seoul area, 30 ME alumni, and 15 PTL alumni. Distinguished alumni include Professor K. C. Moon, President of KIST; Dr. Seungki Chae, Vice-President of Samsung Mobile Display; Professor Jung Yul Yoo, Vice-President of the Korea Academy of Engineering; Professor Kangho Ahn of Hanyang University; Dr. Gwi-Nam Bae of KIST; Associate Professor Jung Hyeun Kim, Head of Chemical Engineering at the University of Seoul; and Assistant Professor Weon Gyu Shin of Chungnam National University. Pui presented ME T-shirts on behalf of ME Department Head, Uwe Kortshagen.

Dr. K. C. Moon is the new President of the Korea Institute of Science and Technology, the oldest and most prestigious research institute in Korea, with Professor Pui.

PTL alumni from Left: Professor Kangho Ahn of Hanyang University; Dr. Gwi-Nam Bae of KIST; Associate Professor Jung Hyeun Kim, Head of Chemical Engineering, University of Seoul; and Assistant Professor Weon Gyu Shin of Chungnam National University.

Dr. Seungki Chae is Vice President of Samsung Mobile Display, working to mass produce OLED mobile displays.

Assistant Professor Se-Jin Yook of Hanyang University - recently married - July 7, 2011. Congratulations!

Professor Jung Yul Yoo, a graduate of UMN AEM under the late Regents’ Professor Dan Joseph. He completed his term as Secretary General of the Korea Research Foundation and Seoul National University’s academic affairs officer. He is currently Vice President of the Korea Academy of Engineering.
Undergraduate Scholars 2011-12