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Dear Readers,

Welcome to the November 2008 Issue of the Engineers’ Forum. This issue contains many articles that are of interest to engineering students, including both a freshman and senior’s perspective on Engineering. Also, we have a photo spread from the SEC’s Engineering Expo. The SEC has also written a column about what their organization is doing this fall to benefit undergraduate students in the College of Engineering.

I also wanted to let everyone know about the new opportunity that is being made available starting in spring 2009 for members of the Engineers’ Forum. Due to our successes in the past few years, our magazine has been very profitable, and is giving $100,000 to the College of Engineering for two endowed scholarship funds. These funds will benefit members of the Forum staff, helping them to pay for school and providing an incentive for becoming a member of the staff. For more information on this exciting time in the life of the EF, please see the article in this issue.

This fall has been very exciting and busy for the EF staff, as I am sure it has been for all of you, and I hope that you all have a very successful end to your fall semester. See you in February!

Go Hokies!

Kari Adkins
Editor-in-Chief
**INSIDE**

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This fall, the Engineers’ Forum staff decided to give a gift of $100,000 to the College of Engineering. This gift will be used to endow two scholarships for leadership and magazine layout positions on the staff.

The idea of starting a scholarship for staff members is not a new one for the EF. In 1985, staff members gave a gift of $25,000 to the College of Engineering, endowing the Niall Duffy Scholarship, paid to the editor-in-chief of the Engineer’s Forum. This gift enabled the EF to offer $500 a semester to the person in this position.

Since the EF has been so successful in the past three to five years, it made sense for the staff to look into expanding the scholarships to benefit others in leadership and magazine layout positions. The specific positions that will benefit are the Managing Editor, Business Manager, and up to two Layout Artists.

Some of you might be wondering what it takes to become a member of the EF staff. It is actually quite easy, and we are always looking for new members. Do you have an interest in the goings-on in the College of Engineering? Do you know of something cool that is happening in your classes that you think others might be interested in hearing about? These are just a few of the questions that current members have found appealing when they first became members of the staff. With the scholarships discussed above, the EF should be able to pay members in leadership and magazine layout positions indefinitely.

In the future, the EF is also looking to start paying other staff members for their contributions to the success of the magazine. These payments would go towards the writers, webmaster, and photographers on staff. This incentive is also planned to start in spring 2009 with the scholarships.

If you would like more information about the EF or the opportunities available to staff members, please email forum@vt.edu or come to our weekly meetings, held in Torgersen 3001 at 4 pm on Wednesdays.

This scholarship endowment will enable future students in the College of Engineering to further their studies while helping to make the EF a success. The members of the EF are very excited about this opportunity and are looking forward to more success in the future.

Kari Adkins is a senior in Industrial and Systems Engineering.
Ware Lab Teams meet Governor Kaine
Governor Tim Kaine met with Virginia Tech engineering student members of the Ware Lab team projects and the lab director, Susan Cortes. Cortes and the students were in Richmond to display their various award-winning design team projects at the Virginia State Fair. The Ware Lab exhibit received a State Fair “Award of Excellence.”
Does the responsibility of an engineer cease after providing professional advice or does it involve additional advocacy? Consider such questions as whether oil fields should be established on the North Slope of Alaska or whether a renewed effort should be undertaken to build nuclear power plants. Should a dam be built that would help prevent flooding but severely impact the environment? Should robots be built that would increase manufacturing efficiency but put large numbers of people out of work?

Virginia Tech faculty members from engineering, business, and philosophy posed the question of responsibility in a proposal to the National Science Foundation (NSF) to establish an interdisciplinary graduate curriculum in engineering ethics. “Our college is committed to pursuing education and research that addresses critical thinking,” said College of Engineering Dean Richard C. Benson.

The NSF has awarded $300,000 for the first three years of the Graduate Interdisciplinary Liberal Engineering Ethics Curriculum (GILEE). Virginia Tech is collaborating with Politecnico di Milano in Italy and Jadavpur University in India, which will assist in introducing global perspectives into the curriculum. The historically black university (HBCU), North Carolina A&T State University, and the University of Illinois at Chicago will test courses developed by Virginia Tech. Graduate course offerings will begin at Virginia Tech during the spring semester, which begins December 1, 2008.

“The GILEE proposal grew out of another interdisciplinary project that was funded by NSF,” said project leader Iswar Puri, engineering science and mechanics (ESM) department head at Virginia Tech. “Last year, we proposed a nanotechnology undergraduate program (NUE). One of the NUE topics is a course on the societal and ethical implications of nanotechnology. It seemed natural that such a course could be synergistic with a curriculum for graduate education.”

Puri said, “The NSF panel was particularly impressed by our focus on emerging technologies, such as nanotechnology, and on our effort, which has already been partially implemented, to assess how graduate...
students integrate the societal and ethical implications of their education and research into their professional preparation.”

The proposal was facilitated by Virginia Tech’s new Institute for Society, Culture and Environment (ISCE), whose mission is to strengthen the university’s competitive position in the social sciences, arts, and humanities. ISCE director Karen Roberto “played a critical role in getting the team together, particularly by introducing me to Joe Pitt, professor of philosophy, and Rich Wokutch, professor of management,” Puri said. “Those of us in engineering -- Vinod Lohani, Roop Mahajan, and I -- knew where we wanted to go but Joe and Rich are a critical piece of the team.”

Lohani, associate professor in the Department of Engineering Education, has implemented innovative activities and ethics modules to expose engineering freshmen to contemporary engineering research and technology issues and has implemented a number of assessment tools to assess learning outcomes.

Mahajan, the Tucker Chaired Professor, an ESM faculty member and director of the Institute of Critical Technology and Applied Science, has published works on “humanistic engineering” and “nanotechnology and society,” and developed ethical and societal modules in the undergraduate engineering curriculum at the University of Colorado before coming to Virginia Tech.

The Virginia Tech proposal to NSF states, “Engineering practices are increasingly interdisciplinary and operate in many organizational and societal contexts. Students will develop team, communication, ethical reasoning, societal and global contextual analysis skills, as well as interpersonal skills to work with experts from diverse disciplines, without sacrificing technical depth. Our inclusion of national and international testing sites assists in the dissemination of our educational project and its broader utility, particularly for adoption and adaptation. A broad based dissemination plan covers engineering, humanities, and business disciplines. Our partnership with an HBCU and ongoing collaboration with the Office of Multicultural Affairs at Virginia Tech will help us recruit underrepresented faculty members, graduate students, and undergraduate seniors to take and enhance the GILEE curriculum.”

The program will 1) develop a course for graduate students and seniors interested in graduate school, which will consist of various ethics training modules; 2) develop summer training workshops for students and for faculty members; 3) develop a seminar series related to engineering ethics, which will be integrated with the 15-year program of business ethics seminars in the Pamplin College of Business; and 4) include ethical issues in the Ph.D. preliminary examination and presentation of learning modules by graduate students during the examination.

Course topics will include
- The Social Construction of Technology;
- Defining Emerging Technologies: Nano in Science and in Science Fiction, and History of the U.S. National Nanotechnology Initiative;
- Politics and Policy: Comparisons of National “Ethics Policy” Programs around the World;
- Ethical Implications: Environmental, Health and Safety Issues, Privacy and Security Issues, Human Enhancement Issues, and Equity and Access Issues; and
- Sociotechnical Integration: The Role of Regulation, Role of the Public, Role of the Engineer, and Seamless Integration of Science and Society

Staff Reports
The annual Engineering Expo was held this year in the Squires Ballroom on September 16 and 17. Students were offered the chance to meet with professionals in all different fields of study, discuss job opportunities, and distribute resumes. All varieties of companies were represented from every field of study, featuring names as big as Microsoft, IBM, and Michelin. Many of the companies were in search of full time employees. However, even those that were not were offering career building internships and part time jobs.

When questioned as to why they chose to search for future employees at Tech, the recurring answer was school’s excellence. One representative from IBM spoke of how aggressive the curriculum was and what a good job it did preparing the students for their future. Almost all of their employees were Virginia Tech Alumni, and they were searching for more. One of the Applied Security representatives said that their CEO and a large chunk of their staff were Virginia Tech Alumni. IBM told a similar story, with one of their managers being a previous tech student. S&ME said that they too had had about one student per year.

Many businesses were in nearby vicinity to the school. Advanced Auto Parts, located in Roanoke, was at the Expo for the first time. However, that had not stopped them from hiring Tech students in the past. The Quaker representative said that their local facilities made it ideal to hire the highly trained students from the school.

As the crowd of qualified students swarmed the floor moving from stand to stand, it was obvious that both the students and the businesses would fulfill the goals of the Expo.

Andrew Mussey is a freshman in General Engineering.
The annual Engineering Expo was held this year in the Squires Ballroom on September 16 and 17. Students were offered the chance to meet with professionals in all different fields of study, discuss job opportunities, and distribute resumes. Gigantic displays covered the floor. Companies were represented from every field of study, featuring names as big as Microsoft, IBM, and Michelin. Many were in search of full time employees. However, even those that were not were offering career building internships and part time jobs.

When questioned as to why they chose to search for future employees at Tech, the recurring answer was school's excellence. One representative from IBM spoke of how aggressive the curriculum was and what a good job it did preparing the students for their future careers. TranSystems estimated that about 60% of their employees were Tech graduates, they were so happy with that 60% that they were searching for more. Representatives said that their CEO and a large chunk of their staff were Virginia Tech Alumni, and they had great relations with the school and ended up hiring students.

Many businesses were in nearby vicinity to the school. Advanced Auto Parts, located in Roanoke, was at the Expo for the first time. However, they had hired Tech students in the past. The Quaker representative said that their local facilities made it ideal to hire the highly trained students from Tech.

As the crowd of qualified students swarmed the floor moving from stand to stand, it was obvious that both the students and the businesses would fulfill the goals of the Expo.
If you have attended Engineering Expo, then you experienced one of the ways in which the Student Engineers’ Council helps students get a leg up on their professional careers. But that’s not where our support ends. Over the last forty years, the SEC has developed into the most philanthropic student organization on campus, and November 8, the organization is hosting a free Leadership in Engineering Conference.

The SEC began in 1968 and hosted the first Engineering Expo in 1977 with the help of a loan from the College of Engineering. Now the Student Engineers’ Council is able to fully fund the event every year and also have money to give back to the university. In the past decade, the Student Engineers’ Council has given almost $1,000,000 to student organizations, design teams, faculty, and the college of engineering as a whole. The organization funds conferences, competitions, renovations, and research. It’s most recent addition to their philanthropic endeavors is a design team endowment to provide consistent, unconditional funding to the students who build VT’s reputation of “Hands On, Minds On.” Through this support, the SEC gives more students opportunities to build both their resumes and networks. If your design team is in need of funding for parts, equipment, or travel expenses visit the Philanthropy section of their website (www.sec.vt.edu).

In continuing with this tradition, the SEC is hosting the Leadership in Engineering Conference this fall, which will focus on promoting leadership qualities in engineering students. These qualities will be beneficial in students’ class work and the workplace after graduation. This event is for individuals and organizations wanting to find new opportunities for involvement and innovation at Virginia Tech. The conference is free and will be held on Saturday November 8th. As an added bonus, the SEC will be giving away two free iPod shuffles and providing a free catered lunch.

The morning session is geared towards organizations and will concentrate on problem areas, such as fundraising, member involvement, and achieving goals. Presenters will discuss practical solutions to these problems that any group could implement to become more successful. This portion of the conference will be interactive, so open discussion will be encouraged. The afternoon session consists of talks by three speakers on innovation in research, transitioning from an engineering education to an engineering career, and conquering the global corporate world. The goal is to enable students to be successful both at Virginia Tech and after they leave. This will be a great opportunity to meet new people and exchange new ideas. More information and registration for the conference is on our website (www.sec.vt.edu) under Events.

Lastly, Dean Benson recently spoke at the SEC’s Welcome Back BBQ, which was hosted to thank Boeing for a generous contribution of $15,000 to the design team endowment. He said that “Virginia Tech is unique because our reputation does not just rely on outstanding work from our graduate students like many other research universities. We have built our reputation from the hard work and ingenuity of our undergraduates.” The Student Engineers’ Council has been supporting those undergraduates for forty years and hopes to continue for at least forty more.

Stefanie Naden is a student in Construction Engineering and Management.
From left to right are Richard Benson, Dean of the VT College of Engineering; Marc Sheffler, a senior engineering manager of The Boeing company; Stefanie Naden of Virginia Beach and SEC Chair Becky Wiggins.
William R. Knocke, W.C. English Chaired Professor and head of the Charles E. Via, Jr. Department of Civil and Environmental Engineering (CEE) at Virginia Tech, was awarded the 2008 Virginia Outstanding Civil Engineer Award at the Virginia Section of the American Society of Civil Engineers’ (ASCE) banquet, held recently in Williamsburg, Va.

According to the ASCE announcement, Knocke was presented with the award for his 29 years of research focusing on the physical and chemical treatment of water and wastewater, chemistry of aquatic systems, sludge treatment and disposal, and hazardous waste assessment and treatment. ASCE also cited Knocke’s contributions to an improved environment and quality of life for all Virginia residents.

Special emphasis was placed on the significant growth and recognition of the CEE department at Virginia Tech. U.S. News and World Report ranks it among the top ten civil engineering programs at both the graduate and undergraduate levels. The department also ranks among the top ten for the total number of bachelor’s, master’s and doctoral degrees awarded in a given year.

External research funding has quadrupled under Knocke’s leadership, placing the department among the top three on the Virginia Tech campus. During his tenure, CEE also secured six Outstanding Faculty Awards by the State Council on Higher Education and 15 National Science Foundation’s Faculty Early Career Development (CAREER) awards, a unique number within Virginia universities.

“I am very appreciative and humbled by the action of the Virginia Section of ASCE in selecting me to receive...
this award in 2008. In many ways this award reflects the dedicated work of the CEE faculty and staff as it is through their efforts that the CEE department has made such substantial strides in terms of national reputation and ranking.

“Educating the fine young women and men who come to Virginia Tech to study civil engineering is an obligation that we all take very seriously. We take great pride in the success of our graduates and their impact on the civil engineering profession. My sincere thanks as well to the leaders of the ASCE Roanoke Branch who took the time to prepare my nomination. Our branch is lucky to have such dedicated leaders,” Knocke said.

Civil engineers are the principal designers, constructors, operators, and caretakers of many of the constructed facilities and systems that contribute to the high quality of life enjoyed in the United States. The Charles E. Via, Jr. Department of Civil and Environmental Engineering offers educational programs in all areas of civil engineering practice.

Founded in 1852, ASCE represents more than 140,000 members of the civil engineering profession worldwide and is America’s oldest national engineering society. Its mission is to provide essential value to its members, their careers, their partners and the public by advancing technology, advocating lifelong learning, promoting the profession, developing leadership and advocating infrastructure and environmental stewardship. For more information, please see www.asce.org.

Staff Reports
Walking into Engineering Exploration on my first day of class was a shock. Learning in a college lecture class is a completely different process than learning in high school classroom. The professor spoke while walking up and down past the rows of students. After finding my way to a seat near the middle of the room, I sat down and set up my tablet. Turning to look back, I saw a sea of black screen backs; hundreds of other engineering students with their tablets facing the front. Engineering Exploration is the standard required freshman course, meant to provide a common base of knowledge for freshman and introduce them to the breadth of the engineering field. All the coursework is administered by the department for engineering education, and the quizzes, homework, lecture and workshop are integrated with Blackboard and Dyknow. I wasn’t quite sure how to handle all the information at first, but after a couple weeks of quizzes and online homework submissions, I found the program was helpful in keeping me organized.

For me the coolest thing about being on-campus is the multitude of events going on around you. Virginia Tech has a very strong reputation as an engineering school, and only a few weeks into the semester, the SEC organized Engineering Expo arrived on campus, bringing with it heavy hitters such as IBM and Microsoft, as well as an array of smaller companies like Torc Technologies (which grew along with the VT Urban Challenge Team). I was really excited to meet and talk to the recruiters, and the size of the engineering program became an advantage, as many of the recruiters were proud to call themselves Hokies.

Besides the SEC, there many other targeted engineering groups and societies such as EWB, IAESTE, IEEE, RSAP and the HVT that show that the engineers’ love for acronyms continues outside the classroom. The breadth and scope of projects is huge when compared to those found at a traditional high school. I’ve visited and hope to become involved with a couple of the groups, but it’s great being in a position where you have plenty of time to experiment and see what really matches your interests. In high school as a potential engineer my interests were limited to “math” and “science”. It’s almost as if whole new fields have just come into existence with “Industrial Systems Engineering” all the way to “Agricultural Engineering”.

Thus the major limiting factor becomes time. Entering a new place, with a different set of rules and organization I didn’t really know what is expected of me. Do I need to spend all my time in the library to keep up, or will a few hours a week do? For the first few weeks I set up a basic to do list and calendar, but I’ve come to realize it takes serious discipline to follow through on it.

The typical first semester freshman takes 4 hours of mathematics and this usually involves a trip down to the emporium. For my computer tested calculus class, I found that it was dangerously easy to put off assignments.

But the best part of all about being an engineer at Virginia Tech is the tablet PC. I love my tablet. Being able to flip your screen around in crazy directions and write and erase on it like a piece of paper, has really made organizing my notebook a breeze. Computer support is also accessible; with the SWAT ready with loaner PCs if the first line of friendly dorm engineers can’t resolve the problem.

Overall, the transition into my first year here at Tech has not been especially difficult, and the opportunities and environment here at Tech make it one of the best places to be for a freshman engineer.

Darius Emrani is a freshman in General Engineering.
Classes in McBryde are a pleasure – a 500-person party every day!

How many thousands of times will I cross the Drillfield before I graduate?
As I am counting down my days as an undergraduate, I began to contemplate the years I have spent as an engineer at Virginia Tech. I vividly remember being initially overwhelmed with the various engineering organizations, as acronyms tend to be rather intimidating. Overtime I began to become more acquainted with which organizations pertain to which department. For instance IIE relates to industrial engineering while IEEE relates to computer and electrical engineering. However I do regret not being active in these organizations at the start of my freshman year. Although I was adjusting to living on campus at that point in time, I realize now that by joining one of these organizations I could have met and sought the advice of upperclassmen or befriended fellow freshmen who could have commiserated with adjusting to college life. Also I realize now you not only get to interact with students, but also an excellent opportunity to interact with faculty and staff—helping you jump start on networking by simply “getting your name out there.” I also learned later in my undergraduate career that by joining a student organization also has its perks. For instance if you are in an organization, particularly a nationally recognized one, you are allowed to apply for their scholarships. In addition alumni of the organization, including those from other universities, sometimes reach out to the organization by asking for potential interest in summer internships and job opportunities from its members first. So remember: don’t be intimated by the acronyms of the student organizations! The student organizations exist because they are actually here for you.

Another aspect as underclassman I do remember is dreading classes that required me to go to the Math emporium. Although as a systems engineer, I now appreciate how the math emporium is able to teach introductory math courses to almost 4000+ students each semester and the costs savings the university is able to make because of it. Also in hindsight, I probably got more personal attention in my math emporium courses than I did in my 200+ student economics course. However I’ll be frank, I was ecstatic when I finally completed my last Math Emporium math course.

However, you can look forward to the nice transition from large sized math emporium courses to the smaller class sizes of upper level courses. It does get to a point where it seems like you go from class to class with the same group people and is especially nice if you
like seeing a familiar face every day. Also it is nice to
develop a good group of friends in your major, and I
especially encourage you that this same group of friends
is one that you work well with. Although as engineers
you may be introverted and like to do things on your
own, you have to come to accept the fact that almost
all engineer projects are a collaborative effort. Time
and time again, group projects in various engineering
courses will instill the importance of learning how to
work with others.

Another difference granted to upperclassman is that
you get the opportunity to finally live off-campus. Like
adjusting to living on campus freshmen year, living off-
campus took time to adjust as well: making your own
food, paying bills, and allotting enough time to get to
class on time. I live with a group of close friends that
I knew prior, but I have come to learn various nuances
like how some of us are night owls while others are
morning birds or how some of my roommates are neat
freaks and others are, well not as peculiar about being
neat. However I would never exchange the experience
of living with my roommates, off-campus or on-
campus, because it has taught me to be considerate of
others as well as patience. I am thankful that Virginia
Tech forces the students to have roommates because
being able to live with others is important to skill set
to acquire.

Finally as a senior than I now have the privilege of
spending most of my time worrying about finding a job
and applying for graduate school instead of worrying
about finding an internship. The process of obtaining
an internship and a full-time job is relatively the same:
make time to attend a career fair like Engineering Expo
and allotting time for interviews. However there are
some differences between finding a full-time job like
the fact that you have to pitch a suggested starting
salary for yourself. I find this rather awkward since, a)
You don’t want to sell yourself short and b) you don’t
want to come across as overly confident. On the other
hand if you are planning to attend graduate school, you
have to juggle your time between studying for GREs
(like the SAT’s, but for graduate school) and studying
for your actual classes. Since I have recently studying
for the GREs, I have found that I am at a disadvantage
in the verbal sections as an engineer. As an engineer
we typically deal with numbers and formulas instead
of similes and metaphor—with the verbal section
leaning towards the latter. So if you plan on going to
graduate school, I do recommend that you avidly keep
reading novels in addition to your texts to upkeep your
vocabulary. And even if you aren’t planning to take the
GRE in the future, it is always good to have a strong
vocabulary because it allows you to be a more eloquent
writer and speaker which can help you become a well-
rounded engineer.

So that is my take on senior year so far. Although
you can look forward to graduating and the trials,
tribulations, and rewards associated with your senior
year, this doesn’t mean that you should take the other
years spent at Tech for granted. Time goes by faster
than you think and before you know it, you’ll be
graduating too. So be sure to take advantage of every
opportunity now to join an organization, make friends,
and become more involved with the University so you
won’t look back on your time as an undergraduate with
any regrets.

Sara Lu is a senior in Industrial and Systems
Engineering and Economics.
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