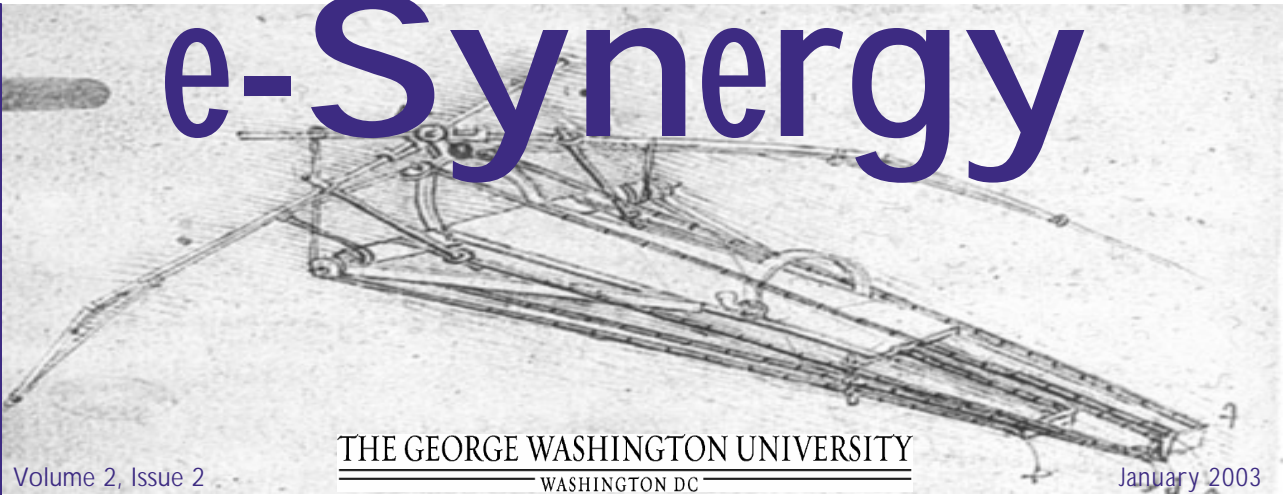


e-Synergy



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SEAS Far Exceeds Fundraising Goal

GW's capital campaign, The Centuries Campaign, is on track to finish this summer, and SEAS – thanks to the generosity of its alumni and friends – has enjoyed extraordinary success throughout its course.

The SEAS goal was to raise \$20 million by the end of the campaign, but SEAS reached that

mark in January 2002, more than a year ahead of schedule. In fact, as of this January, SEAS has surpassed its goal by \$17 million or 183%. SEAS has led all other schools in the University during the last year of the campaign: it was the first school to complete its goal and it remains the leader in terms of percentage raised after completion of the goal.

The largest contributors to SEAS have been corporations, followed by individuals, and then foundations. Their contributions will help improve SEAS and provide a number of new benefits for students, including 19 scholarships, five fellowships, four program endowments, and three endowments for the future advancement of engineering excellence.

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Leslie Robertson Delivers Frank Howard Lecture

On October 30, 2002, a large audience of SEAS and GW community members gathered in the Marvin Center's Grand Ballroom to hear Leslie E. Robertson deliver the 2002 Frank Howard lecture. Mr. Robertson's lecture, entitled "A Travel through Time: From the World Trade Center, New York, to the World Financial



Leslie Robertson continued a lively exchange with SEAS students following the Frank Howard lecture.

Center, Shanghai," was a journey through the design and construction of several world-famous buildings in which Robertson and his firm were involved. Throughout the lecture, Robertson presented photographic slides that he has taken over the course of his career, showing everything from design concepts to fascinating, death-defying walks by engineers and construction

(continued on back page)

Faculty Approves New Strategic Plan

The School of Engineering and Applied Science got off to a strong start this semester, guided by the newly adopted SEAS strategic plan. The plan was formally adopted following a faculty vote at the end of last semester and will be implemented by Dean Timothy

Tong and the SEAS faculty and staff over the next five years.

Driven by its vision statement, the strategic plan aims to steadily enhance the School's reputation and ranking. To achieve this, the plan utilizes various goals that address a wide range of issues relating to the

quality of the SEAS faculty and students; the quality of the SEAS infrastructure and education; research space, quality, and expenditures; and undergraduate and graduate enrollment numbers.

The plan also identifies three focus areas in which the School intends to

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Manzari Leads GW's Geo-technical Earthquake Engineering

When Majid Manzari entered college in his home country of Iran, he knew that he wanted to follow in the footsteps of his brother and study engineering. Civil engineering was one of the most popular professions in rapidly developing Iran, and several hundred thousand high school seniors vied for 75 civil engineering slots the year that Manzari entered Tehran University. After completing a bachelors degree in civil engineering, Manzari decided to study geo-technical engineering, because he found it the most intriguing of the sub-fields. "Everything we build is on soil or out of soil, so we need to make sure that the material we build on is safe enough," says Manzari.

Now an associate professor in the Department of Civil and Environmental Engineering, Manzari leads geo-technical earthquake engineering research at GW. His main focus is the study of soil liquefaction, a process



whereby soil subjected to a force such as an earthquake loses its strength, becomes liquefied, and can flow under its own weight. Professor Manzari explains that the sheer waves of an earthquake cause soil particles to become displaced, but the water between soil particles does not allow the particles to move as much as they want to. This, in turn, causes extra pressure in the water, which pushes back on the particles and separates them. When the soil particles are no longer in contact with each other, the soil loses its strength and becomes liquefied.

To better study this phenomenon, Manzari determined that he needed a shake table, a device that simulates earthquakes of varying degrees and allows researchers to conduct experiments on the effects of earthquakes on various materials. In 1996, Manzari and SEAS professor Shahram Sarkani submitted a proposal to the National Science Foundation (NSF) to build a six-degrees-of-freedom shake table at GW's Virginia Campus, and by 2000, the shake table was completed.

Manzari and his students have performed a series of liquefaction tests on the shake table and will present their findings to the American Society of Civil Engineers this summer. Manzari has also recently presented his results to the head of Japan's Public Works Research Institute (PWRI). Japan is an island nation prone to earthquakes, and the PWRI is interested in the implications of his work on bridge design.

While working to make the shake table operational, Manzari continued to develop mathematical models of soil behavior on soil that is subjected to varying forces. The models that he developed are now being used by the University of Washington-Seattle and the University of California at Davis.

Professor Manzari is continuing this computational modeling and has been active in other research areas, as well. He began looking into the progressive failure of soil and rock slopes about two years ago and has an ongoing research grant from the NSF to study the forces that can trigger instability in soil and rocks. He has also begun research into modeling of "smart" materials, which enters into new territory in a field that is itself quite new.

"Smart" materials are materials that can modify their properties to respond to a load or force, such as an earthquake. For example, the ferro-electric actuators in a building could, theoretically, sense the forces of the earthquake, and apply counter-forces in real time to particular locations in the building to reduce the potentially disastrous effects of the earthquake on the structure. Ferro-electric materials are very different from traditional building materials, and Professor Manzari is working with colleagues in the Department of Mechanical and Aerospace Engineering to model the behavior of these smart materials.

Throughout his career, Manzari has been very serious about integrating research and education and creating opportunities to involve students, particularly undergraduates, in his research. SEAS undergraduates have participated in the shake table testing and have worked on the soil stability grant. "In my view," says Manzari, "the teaching, mentoring, and advising of students should occupy as much attention in the minds of the faculty as the research. I think a university needs to nurture both in new faculty members."

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Hughes Institute Grants GW \$1.7 Million for Bioinformatics Program

The Howard Hughes Medical Institute has awarded GW a four-year \$1.7 million grant to develop innovative biological sciences programs in bioinformatics and computational molecular biology and to support a new partnership with The Institute for Genomic Research (TIGR). GW is one of only 44 research universities to be awarded this grant.

The grant will bring together SEAS, the Columbian College of Arts and Sciences, and the School of Medicine and Health Sciences to prepare biology and computer science students to work together as leaders in post-

genomic science. Students from both disciplines will share classes and research projects. SEAS' Department of Computer Science will offer the first course in the sequence, Introduction to Bioinformatics (CS 177).

The grant will fund numerous student summer research assistantships and support a new interdisciplinary undergraduate research course for biology, biochemistry, and computer science students. Student teams will work together with researchers to solve analytic questions from TIGR's lab and from

research facilities at Children's National Medical Center and Holland Laboratories.

In addition, the grant will fund faculty positions in the biology and computer science departments. Professor Rahul Simha of the Department of Computer Science and Professors Robert Donaldson and Randall Packer of the Department of Biological Science are co-directors of the grant. Professor Bhagirath Narahari of the Department of Computer Science and Professor Fatah Kashanchi of the Department of Biological Sciences are also involved in the program.

Professor Rajat Mittal Receives DoD Challenge Grant

SEAS professor Rajat Mittal and three collaborators from Stanford University have been awarded one of 39 high performance computing challenge grants that the U.S. Department of Defense (DoD) granted nationwide for fiscal year 2003. The DoD provides these grants to researchers in the hopes that their research will help address the Department's highest priority needs in science and technology and test and evaluation.

The grants that Mittal and his colleagues received will provide them with hundreds of thousands of CPU (computer processing unit) hours on some of the world's largest supercomputers. They are using the computing power to develop and test a large-eddy simulation (LES) code that has the potential to be a useful research and design tool for future DoD weapons systems.

Mittal explains that in liquid handling systems like turbomachinery pumps and propellers (see Figure A), low pressure fluctuations downstream of the rotor can induce cavitation, lead-

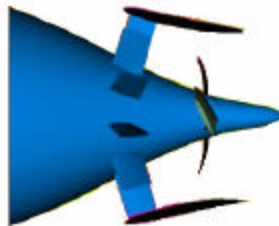


Figure A: Schematic of a ducted propeller on a submarine

ing to acoustic noise, loss of performance, and structural damage. This complex, highly unsteady flow phenomenon is still poorly understood and cannot be predicted by traditional computational fluid dynamics (CFD) methods. However, Mittal and his colleagues are using LES to try to better understand, predict and eventually control cavitation.

Figure B shows the complex flow structures that are predicted by these simulations. These are some of the largest computations of this

kind attempted to date and are possible only by use of the vast supercomputing resources provided by the challenge grant. This research project is also being supported by a separate grant from the Office of Naval Research.

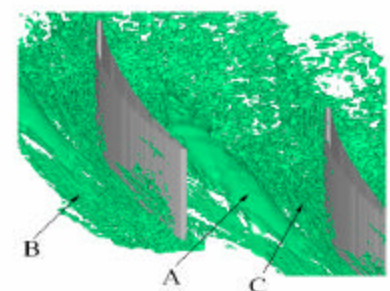


Figure B: Visualization of computed flow through rotor cascade

Professor Mittal is a member of the Department of Mechanical and Aerospace Engineering faculty.

ICDRM Develops Medical & Health Incident Management System Model



Hospital personnel exercising a response plan for chemical casualties

Under a grant from the Alfred P. Sloan Foundation, GW's Institute for Crisis, Disaster and Risk Management (ICDRM) recently developed a Medical and Health Incident Management (MaHIM) System model. The principal investigators under the grant were Joseph Barbera, M.D., an associate professor in the Department of Engi-

neering Management and Systems Engineering, and Anthony Macintyre, M.D., of GW's School of Medicine and Health Sciences.

From March to December 2002, Barbera, Macintyre, and the ICDRM developed a single, comprehensive system description of the *functional* components critical to effective response for any mass casualty incident. Using systems engineering theory, the MaHIM model describes the functions according to management system constructs and delineates the critical relationships between functions, both within the system and with important non-medical emergency response functions such as law enforcement and fire services. The model also describes the system processes that coordinate the many component functions in order to limit morbidity

(injury or illness) and mortality (deaths) in a population exposed to a major hazard. The development process included extensive peer review that culminated in a project workshop in October 2002 for more than 40 participants, including the former director of the Federal Emergency Management Agency, a former secretary of the Navy, a former assistant secretary of the Department of Health and Human Services, and current high-level federal, state, and local officials.

Potential follow-on efforts include working with pilot communities and developing a Web-based implementation guide and educational model to assist communities nationwide.

EMSE and NPS Begin Partnership on Long-term Environmental Sustainability

In December 2002, the Department of Engineering Management and Systems Engineering (EMSE) entered into a two-year cooperative agreement with the National Park Service (NPS) to assist the NPS with sustainability education, information dissemination, and research and other projects that aim to make the NPS a national leader in long-term sustainability.

Over the next two years, EMSE graduate students and faculty will work in conjunction with NPS representatives on a number of projects toward that end. They include the development and application of technology-based sustainability tools, web-based communications and networking, and training and education.

To assist NPS staff to implement sustainable park management solutions, EMSE will help identify appropriate



Shawn Norton of the National Park Service (second from right) presents the cooperative agreement to EMSE representatives, Profs. Thomas Mazzuchi (left), Jonathan Deason, and Theresa Jefferson.

technology-based sustainability tools such as energy management tools, product life cycle analysis tools, and environmental data tracking and analysis tools. The EMSE Department anticipates that information dissemination will be one of the most important drivers of sustainable park management and, there-

fore, will also assist the NPS to develop communication techniques that are web-based and link to critical web-based sustainability references such as the Department of Energy, the Environmental Protection Agency, the Department of Agriculture, and others.

Numerous other research and information dissemination activities are planned in as many as seven operational areas: transportation, facilities design and construction, community outreach, facilities operations and maintenance, procurement and contracting, stewardship education and interpretation, and concessions. These activities will be conducted under the leadership of Professor Jonathan Deason and Assistant Professor Theresa Jefferson.

DOT Awards \$12 Million Grant to NCAC

The United States Department of Transportation (DOT) recently awarded the National Crash Analysis Center (NCAC) at GW's Transportation Research Institute a five-year, \$12 million grant to continue research in transportation safety. Professors Azim Eskandarian and Nabih Bedewi of the Department of Civil and Environmental Engineering are co-directors of the grant.

The NCAC was established at GW's Virginia Campus in 1992 to assist government and industry in solving critical transportation safety problems, and since that time, it has become one of the nation's leading centers for automotive and highway crashworthiness research. Included among its many research areas is pioneering work in accident investigation, accident statistical data analysis,



The NCAC conducts a 50-mph crash test to validate a computer model of the Ford Taurus.

trauma studies, occupant biomechanics, airbag and restraining safety systems analysis, structural crashworthiness, computational mechanics for crash modeling and simulation, design optimization techniques,

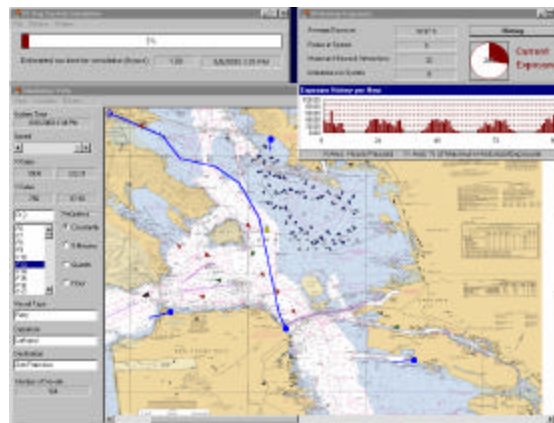
and advanced parallel computing for crash analysis.

The NCAC receives its base funding through the DOT's Federal Highway Administration and the National Highway Traffic Safety Administration. Other NCAC research sponsors include government agencies such as the U.S. Department of State and the Department of Energy, various state transportation departments, and a range of industries and foundations.

Professor van Dorp Looks at Maritime Transportation Risks

Professor Rene van Dorp, an assistant professor in the Department of Engineering Management and Systems Engineering, has been working recently on two projects to assess uncertainty and risk associated with maritime transportation.

Under a continuation grant from the National Science Foundation (NSF), Professor van Dorp has been working to develop an overarching Bayesian framework to address uncertainty when simulation of systems states is combined with available data and expert judgment to assess risk and risk intervention effectiveness. While the framework for assessing risk has already proven useful in three major maritime ports in the United States – the Port of New Orleans; Port Valdez in Prince William Sound, Alaska; and Port Seattle – the broader impact of this methodology may be its applicability to areas



Screen Capture of San Francisco Bay Maritime Simulation

other than maritime accident risk, including intentional events, and even other transportation modes such as aviation and road safety.

Professor van Dorp has also been working with colleagues on an assessment of the effect of a proposed ferry service expansion in San

Francisco Bay. Following a proposal to the California legislature to increase the frequency and coverage of ferry service in the San Francisco Bay area, the San Francisco Bay Water Transit Authority provided a grant to van Dorp to study and model the effect of the proposed expansions on the vessel traffic congestion and safety levels on the waterway. Professor van Dorp has been working on this project with Professors Thomas Mazzuchi, Jack Harrald, Gregory Shaw, and Joseph Blackford of EMSE, as well as Professor Jason Merrick of Virginia Commonwealth University.

For more information on the work of Professor van Dorp and his colleagues, please go to <http://www.seas.gwu.edu/~dorpjr/>

Elliot Soloway Visits GW and SEAS

An audience of GW students, faculty, and administrators had the opportunity last semester to listen to and interact with Elliot Soloway when he made the first of his visits to GW as a Welling Professor. Soloway devoted his visit to a series of discussions on the use of technology in education, an issue for which he is an internationally known researcher, writer, and advocate.

In conjunction with SEAS and the Department of Computer Science (CS), Professor Dianne Martin, chair of the CS Department, hosted an array of events with Professor Soloway on October 9th. Working in several venues, Soloway used data, humor, and anecdotes to demonstrate the impact of appropriate technology usage. Soloway led a teaching seminar for GW faculty on methods and means of incorporating



Professor Elliot Soloway presents one of his lectures as a visiting James Clark Welling Professor at SEAS.

technology into classrooms; conducted a separate, informal visit with faculty and students of the CS Department; and gave a public lecture, entitled "Technology in K-12: Finally, Impact is Literally at Hand"

in the Marvin Center Amphitheater.

Soloway is a professor of electrical engineering and computer science at the University of Michigan's College of Engineering, and he also has appointments at the University's School of Education and School of Information. He has received numerous academic awards and honors, among them his appointment from GW as a James Clark Welling Professor at SEAS. The Welling visiting professorships bring internationally distinguished scholars to the GW campus to interact with students and faculty and contribute to the intellectual life of the university.

Strong Start for MS Degree Program in Information Security Management

In Fall 2002, GW and SEAS began offering a master of science degree in engineering management and systems engineering with a concentration in information security management. By the end of the semester, four students were ready to graduate from the program because they had already completed the School's graduate certificate program in information security management and were ready to go when the master's degree concentration was approved.

The information security management program educates technical managers for the challenges associated with systems engineering solutions for security in large, complex, and heterogeneous enterprises. In addition, the program's curriculum is compliant with the National Training Standard

for Information Systems Security Professionals (NSTISSI 4011) and, therefore, meets federal standards for educating the professionals responsible for the security of the U.S. Government's infrastructure.

The graduate certificate program consists of six courses that provide a comprehensive approach to understanding, analyzing, and architecting solutions to information security challenges. The master of science program builds upon the six courses in the certificate program to provide an expert's level appreciation of information security management challenges.

Did You Know . . .

that while pay held steady or even declined for many in the IT field in 2001 and 2002, information security professionals actually experienced both salary increases and job demand escalation?

SEAS Faculty and Staff Place in AOL Competition

Jose-Luis Hernandez-Rebollar, a doctoral candidate in the Department of Electrical and Computer Engineering, and Professor Robert Lindeman of the Department of Computer Science placed second and third, respectively, in poster display competitions at the AOL-CIT University Research Day in November.

Hernandez-Rebollar won a second-place cash award for his poster display "American Sign Language Interface" (collaborators: Professors Nicholas Kyriakopoulos and Robert Lindeman), and Lindeman won a third-place cash award for his poster display "Tactile Feedback for HCI" (collaborators:

Justin Cutler and Professors John Sibert and Rahul Simha). Computer science students Hristian Kirtchev and Herve Roussel also participated in the event. Kirtchev entered a poster entitled "PDA-based GPS-enabled Tour Guide System," while Roussel entered one entitled "SmartMail 3.0."

Virginia's Center for Innovative Technology (CIT) hosts this annual conference to give technologists from America Online, Inc. (AOL) opportunities to meet with Virginia university researchers who are working in fields of interest to the company. This yearly event has led to sponsored

fellows, internships, and sponsored research at Virginia universities.

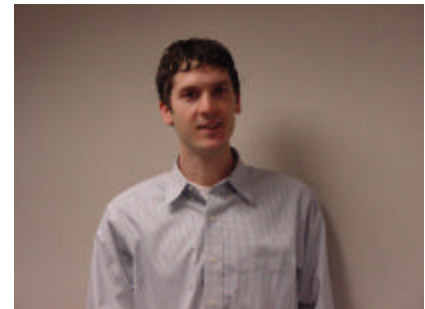
More than 100 employees in technology-related roles at AOL participated in the event, along with 40 research professors and doctoral candidates representing six universities in Virginia: GW Virginia Campus; George Mason University; James Madison University; Old Dominion University; the Virginia Commonwealth University; and Virginia Tech.

Coppola Wins Spencer Educational Foundation Scholarship

Damon Coppola, a master's degree student in the Department of Engineering Management and Systems Engineering's Crisis, Emergency and Risk Management program, was awarded the Spencer Educational Foundation risk management scholarship for the 2002-2003 academic year. Mr. Coppola is not only the first student at GW to receive this very competitive award, but also the first awardee enrolled at an engineering school. This scholarship is open to any student interested in risk manage-

ment or a related field, and it is awarded in the amount of \$5,000 for undergraduates and \$10,000 for graduates. Additional information on the scholarship program and applications can be found on the Foundation's website (www.spencer.org).

Congratulations to Damon on receiving this scholarship.



Damon Coppola is in the second year of his masters program.

Announcements

Tompkins Hall Renovations: The first floor of Tompkins Hall is undergoing renovations this semester. In an effort to improve the Tompkins facilities, the SEAS administration has approved renovations to upgrade the freight elevator to a passenger elevator and to reconfigure and refurbish office space on the first floor. Construction is slated to finish in the late spring or early summer.

To accommodate these improvements, Dean Tong and some of his staff have

temporarily moved to the second floor of Staughton Hall. Dean Tong's office is located at 214 Staughton; Rich Cosentino, the director of budget, personnel, and logistics is in 204 Staughton; and Joanne Welsh, the director of communications, is in 205 Staughton.

E-Week, the annual week of events to celebrate engineering, is scheduled this year for February 17th through the 21st. Past events for E-Week have included an egg drop contest, an

edible car contest, a popsicle stick bridge building contest, and others. This year's events are being planned now, and will culminate in the Engineers' Banquet and Ball, which is scheduled for Friday evening, February 21st. All students, faculty and staff, and alumni are invited to attend. For more information on E-Week, contact E-Council at <http://ecouncil.seas.gwu.edu> or check the E-Council board in Tompkins Hall.

Professor Ryan “Cracks the Code” to Making Science and Math Interesting for Young Girls

Last month, Professor Julie Ryan of the Department of Engineering Management and Systems Engineering participated as an invited speaker in the Sally Ride Science Festival in San Antonio, Texas. The Sally Ride Science Festivals are held in various locations throughout the United States and are aimed at fixing a real problem: girls between the 5th and 8th grades lose interest in science and math.

The Festivals bring in women with careers in science and math to present

workshops for girls in that age group. The goal is to increase the girls' interest in science and math and to show them that they can have careers in science and math without losing their femininity. And, of course, the keynote speech by Sally Ride is a huge draw – as Professor Ryan points out, “Astronauts have major cool points.”

Professor Ryan presented a workshop on cryptography at the Festival. Her workshop was entitled “Sterces

Gnidih” (that’s “Hiding Secrets” backwards). She took the girls through the fundamentals of cryptography and capped off the session by having them actually make and break codes using crypto wheels. Says Professor Ryan, “The girls really responded well to the workshop and it was a heck of a lot of fun.”

For more information on the Festivals, go to <http://www.sallyridefestivals.com>

Computer Science Department Hosts ACM Contest

The Department of Computer Science served as a host site for the mid-Atlantic regional competition of the annual ACM international collegiate programming contest, held last November. A total of 146 teams from 70 schools competed at eight sites throughout the mid-Atlantic region; GW and the Department of Computer Science hosted 16 teams from nearby schools.



Teams worked through the day at GW’s Marvin Center to solve computer programming problems in the ACM competition. GW was one of the host sites for the competition.

Each team consisted of three students working on a single computer to solve computer programming problems.

Teams were scored on the number of problems they were able to complete in a five-hour period. Web cameras were set up to allow spectators to

watch the competition, and the scoreboard for the region was updated in real time.

The Department of Computer Science fielded four teams for the competition: GW 000, consisting of Justin Cutler, Eric Denman, and Justin Cohen; GW 001, consisting of Matt Norris, Sean Hanlon, and Herve Roussel; GW 010, consisting of Ali Ahmadi, Alison Alvarez, and Neal Rosen; and GW 011, consisting of Ravjot Pasricha, Eric Shmelzer, and Kunal Johar. Of the 146 teams that competed this year, GW 000 placed 21st, GW 001 placed 59th, GW 011 placed 70th, and GW 010 placed 110th. The

teams were coached by computer science professor Robert Lindeman.

SEAS Fundraising (continued from front page)

Dean Timothy Tong gratefully acknowledged the contributions from SEAS supporters, saying, “SEAS is very fortunate to have such strong support from its alumni and from the business and non-profit sectors. Their contributions demonstrate the

confidence that they have in SEAS, and we will continue to work hard to prove that their confidence is well placed.”

Want to Know More?

To find out more about the Centuries Campaign or to make a contribution to SEAS, please contact the director of advancement, Lee Williams, CFRE, at 202-994-4121 or via e-mail at lwilliam@gwu.edu

Introducing Matthew Norris, the Dean's Fellow



Matthew Norris is a first-year graduate student pursuing a master's degree in computer science with a specialization in computer security and information assurance. He is also the Dean's Fellow for Undergraduate Affairs. Matthew was appointed to the position last fall, and his term will last through the end of the summer. He replaces Nathan Campeau, the former Dean's Fellow, with whom he worked on the SEAS freshman orientation last fall.

After having spent his undergraduate career at SEAS, Matthew knows the

School well and has clear plans for the types of activities he would like to facilitate through his position. First among those plans are efforts to increase informal interactions among students, faculty, and staff. To that end, he has begun organizing the freshman orientation for next fall and is currently working to arrange a fun outing for students, faculty, and staff in late March. Matthew explains, "As an undergrad at SEAS, I liked the fact that SEAS is a small, tight-knit school and that it is possible to know most of your fellow students and to have a working relationship with most of your professors. So, I'd like to focus on activities to make this facet of SEAS even stronger."

Matthew has other ideas for this term, including facilitating discussions among students regarding what they expect from their GW engineering degrees, and possibly even providing tours to interested high school students. In the meantime, Matthew is open to ideas from students and can be reached at the Academic Center, room 720D or via e-mail at mnorris@gwu.edu.

Strategic Plan (continued from front page)

achieve academic excellence: information technology/telecommunications, biomedical engineering, and transportation/safety and security. Two of these focus areas have already been selected to receive university funding for academic excellence after having successfully competed against proposals from throughout the University. (*Editor's Note: More details of the academic excellence proposals will appear in the next issue of e-Synergy.*)

Using a wide variety of strategies to accomplish its goals, the plan reaches out to the broader SEAS and GW community. Through its strategies, the plan sets forth interaction with and

input from SEAS students, faculty, staff, and alumni, as well as the GW administration, industry, government, and the non-profit sector. The plan itself was formulated with input and review from faculty and alumni representatives.

In his remarks on the plan, Dean Tong said, "The vision articulated in the SEAS strategic plan is bold and ambitious, but it's also grounded in realistic assessments of the potential of the SEAS faculty, staff, and administration. It's a vision that supports focused investment in our future and the achievement of academic excellence through growth."

Faculty Notes

The publications board of the Computer Society has selected David Grier, the SEAS assistant dean for student affairs, as the next editor-in-chief of the *Annals of the History of Computing*. Dean Grier will assume his duties as editor-in-chief next fall. The *Annals of the History of Computing* is published by the Computer Society, which is a branch of the IEEE (Institute for Electrical and Electronic Engineers). Dean Grier has served as assistant-editor-in-chief of the journal since 1997, and before that served as editor of the journal's "Events and Sightings" department. In addition, many of his own articles have been published in the journal.

SEAS professor Joseph Pelton has been invited to become an associate editor of *Acta Astronautica*, the professional juried journal of the International Academy of Astronautics. The Academy is limited to 1,000 members worldwide for lifetime achievement in the field of aerospace and space sciences, and it includes in its membership more than 50 astronauts and cosmonauts. Professor Pelton will begin his appointment in the spring of this year, and he will be responsible for editing all telecommunications and informatics publications submitted to the journal.

Professor Howard Eisner has accepted a position as a member of the Board of Trustees of the Center for National Software Studies (CNSS). The CNSS is a not-for-profit organization whose mission is to "elevate software to the national agenda, and to provide objective expertise, studies and policy recommendations on national software issues." The Center's operations revolve around a three-part program of forums, studies and communications, and its work has gained the attention of policy makers, including Virginia's governor, Mark Warner. In a recent letter to the president of the CNSS, Governor Warner applauded the Center's efforts with respect to its objective studies and unbiased recommendations relative to emergent software issues.

SEAS Hosts Training for Chinese Industrial Leaders

Last semester, SEAS and GW hosted a one-month training program for 24 industrial leaders from mainland China and Taiwan. From mid-October through mid-November, these mid- and high-level industrial managers from a range of industries studied under the direction of several SEAS faculty and two visiting lecturers.

The program, which is supported by the Chiang Industrial Charity Foundation of Hong Kong, provided the trainees with the opportunity to study manufacturing technology and associated issues, visit successful American manufacturing companies, attend lectures on GW's campus, tour the sites of Washington, D.C., and experience American culture. In addition to several other scheduled activities during the course of the program, the trainees were



The trainees enjoy a group outing to celebrate the completion of their month-long program.

guests at a live taping of CNN's "Crossfire" program and at a lecture hosted by the Elliott School of International Affairs and delivered by Michael Moore, the former director general of the World Trade Organization (WTO).

The program included course work on manufacturing technology and management, China's entry into the WTO, case studies of American manufacturers, project management, quality control, and the management of e-commerce technologies. Professors Marvine Hamner, Robert Waters, Howard Eisner, Rene van Dorp, Theresa Jefferson, and Lile Murphree of the Department of Engineering Management and Systems Engineering provided instruction. Professor Jay Lee of the University of Wisconsin-Milwaukee and Dr. Kam Lau of Automated Precision, Inc. also provided instruction.

SEAS is currently working with the Chiang Foundation to schedule another training program during 2003.

AOL Sponsors Mozilla Event at GW

Last semester, students in the Department of Computer Science were treated to a case study of open source software, courtesy of America Online, Inc. (AOL). AOL sponsored the case study event as a part of the Computer Science Department Day activities that are held several times each semester. Representatives of Mozilla also participated in the event, which was attended by students, faculty, and government and industry personnel.

AOL and Mozilla have begun a national tour at universities to introduce Mozilla, an open source project, and GW was the first university on its tour. The event included an introduction to the concept of free software/open source software and the Mozilla project; a brief political/technical history of the project; a discussion of the security implications of open source development; and an explanation of the Mozilla public license, which was created at the

launch of the Mozilla project and has been widely adopted by a variety of other projects.

This semester, the Department of Computer Science will host several Department Day events under the theme "Life After School", which will explore computer science careers and the job market. Information on the scheduled Department Day events is available at <http://www.cs.seas.gwu.edu/>

Leslie Roberston (continued from front page)

workers atop some of the world's tallest buildings.

In addition to delivering the Frank Howard lecture, Mr. Robertson was the guest speaker at an open forum for SEAS students interested in learning more about structural engineering, careers in the field, and Robertson's

own career. Robertson also was available to students and faculty during the reception that SEAS hosted for him following the lecture.

Leslie Robertson is an internationally known structural engineer who is responsible for the structural design of hundreds of tall and innovative

buildings worldwide, including the World Trade Center, the United States Steel Headquarters in Pittsburgh, and the Bank of China Tower in Hong Kong. He has been *Engineering News Record's* Construction "Man of the Year" and one of its "125 Top People of the Past 125 Years."