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**CSE Professor Richard Ladner wins Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring**

Long-time UW CSE professor Richard Ladner, whose work includes access technology for deaf and blind people, has been named a recipient of this year's Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring.

Ladner, recently named Boeing Professor of Computer Science & Engineering, is one of nine individuals from around the country who received the award at the White House this year. John Marburger, director of the Office of Science and Technology Policy for President Bush, presented the awards, and recipients had an opportunity to talk briefly with the President.

The annual award is administered by the National Science Foundation and includes a \$10,000 grant for continued mentoring work as well as a Presidential commemorative certificate.

Ladner said the recognition was rewarding. Until now, little attention has been given to scientists whose work focuses on those with disabilities.

*Continued on page 4*

## from where I sit...



June 11 was the culmination of the 2004-05 academic year -- graduation! CSE's faculty and staff had the privilege of celebrating the successes of our students along with their families and friends. Our mission statement says that we "recognize that our role as faculty is first and foremost to be educators, helping our students to reach their full potential." We're extremely proud of our graduates -- this year's, and all of those who preceded them!

Our departmental ceremony, which used to fit comfortably in the HUB Auditorium, has outgrown the 750-person capacity of even Kane Hall's largest auditorium, so this year for the first time we used the Meany Hall theater. We overflowed the main hall into the balcony with students, family, friends, staff, and faculty -- all of us celebrating 153 Bachelors graduates, 68 Masters graduates, and 26 Ph.D. graduates!

It's impossible to enumerate all of the CSE family's achievements over the past year -- there are just too many! I'd like to mention just a couple.

Jenny Yuen was a winner of the 2005 Google Anita Borg Memorial Scholarship, with a \$10,000 award presented to only 10 top women undergraduates nationwide. Jenny was also recognized with an honorable mention in the highly competitive Computing Research Association Outstanding Undergraduate competition. Jenny has also been a recipient of the Hellmut Golde Endowed Scholarship, which was created with private funds to honor Hellmut as one of the founders of CSE. In the same CRA competition, Cary Cherng was recognized as a finalist, and Beau Crawford - a recipient of a

Microsoft Endowed Scholarship - was recognized in the with an honorable mention. Congratulations to Jenny, Cary, and Beau!

Tao Xie, who is graduating with his Ph.D. this summer and will be an assistant professor at North Carolina State University, was one of the three finalists for the ACM Student Research Competition. Mike Swift (who will join the University of Wisconsin faculty in the autumn) won this last year, so our students are showing extraordinarily well in this high-powered competition. Congratulations to Tao (and to Mike, once again)!

Gail Murphy, who received her Ph.D. in 1996, won the inaugural AITO Dahl-Nygaard Prize for her innovative ideas in object-oriented programming. Gail's now on the faculty at UBC (along with a host of other UW CSE grads); while here, Gail was the inaugural recipient of the CSE Educator's Fellowship, which was created from contributions by Hellmut Golde and other faculty along with matching funds from the UW Fellowship Fund and the Microsoft Challenge. Three other of our Ph.D. alums -- Stefan Savage, Tessa Lau, and Nick Kushmerick -- were all featured in Technology Review for work they've done since leaving UW at UC San Diego, IBM Research, and University College Dublin, respectively.

Our faculty, too, have had a set of outstanding accomplishments over the past year. We've been particularly fortunate to be able to honor several of them with endowed positions. Endowed professorships and chairs provide recognition and discretionary funds to outstanding faculty -- concrete indication of their professional achievements and successes. Made possible by truly generous private donors, these endowments make a huge difference to UW CSE -- in addition to helping recruit and retain the best faculty possible, it allows these faculty to explore ideas with students in a much more flexible way than is possible with conventional grants and contracts. In many cases, this flexibility leads to breakthroughs simply not possible otherwise. By naming the following individuals to these endowed positions, we simultaneously honor the faculty and thank the donors for pushing UW CSE ahead of the curve:

◆ Hank Levy was named as the first Wissner-Slivka Chair in Computer Science & Engineering.

◆ Dan Weld was reappointed to the Washington Research Foundation/Thomas J. Cable Professorship in Computer Science & Engineering.

◆ Richard Ladner was appointed to the Boeing Professorship in Computer Science & Engineering.

◆ Susan Eggers was appointed to the Microsoft Professorship in Computer Science & Engineering.

◆ And Steve Seitz, effective this coming September, has been named to the Short-Dooley Career Development Professorship.

Congratulations to Hank, Dan, Richard, Susan, and Steve!

I must include one final faculty honor (which you'll read more about elsewhere in this issue): Richard Ladner accepted an invitation to the White House on May 20th to receive the extraordinarily impressive and highly prestigious Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring for his groundbreaking work on behalf of people with disabilities, and for his outstanding support of other students, particularly women. This is a tremendous achievement -- congratulations, Richard!

Once again, it was a terrific year for UW CSE. Our students are thriving, our alumni are thriving, and our faculty are thriving -- collectively, we are pushing forward the frontiers of education, research, and service in computer science and engineering. So, I look back with great pleasure at graduation, and look forward with tremendous excitement to autumn, when the next cohort of students enters CSE.



## we want to hear from you!

Have news you'd like to share with the CSE community? Have comments or suggestions for future issues of MSB?

Let us know! Email the editors at:

[msb@cs.washington.edu](mailto:msb@cs.washington.edu)

and be sure to visit us online at:

[www.cs.washington.edu](http://www.cs.washington.edu)

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## datagrams

### *CSE Ph.D alumnus Ray Greenlaw's latest book...*

CSE alum Ray Greenlaw, Ph.D 1988, has just released his latest book, and it's not about computer science. *The Fastest Hike* is the "true adventure story... of an ordinary man from Savannah, Georgia, who dreamed up an extraordinary challenge and attempted to set a speed record for hiking the 2,659-mile Pacific Crest Trail through the high and dangerous mountains of California, Oregon and Washington. Re-live this flatlander's epic battles with dehydration, food shortages, snowy high-altitude passes, river fords, and wildlife. Get to know the amazing people who befriended him along the way, as he rediscovers the United States." When he's not enjoying the great outdoors, Ray is busy as the Dean of the School of Computing at Armstrong Atlantic State University in Savannah, Georgia.

### *CSE student Jenny Yuen wins 2005 Google Anita Borg Memorial Scholarship*

This spring CSE senior Jenny Yuen was one of 10 recipients of the 2005 Google Anita Borg Memorial Scholarship. This scholarship was established to honor the legacy of Anita Borg and her efforts to encourage women to pursue careers in computer science and technology. The award is a \$10,000 scholarship for outstanding female undergraduate and graduate students completing their degrees in computer science and related fields. "Anita would be proud to see these young, talented women rewarded for their dedication and achievement," said Dr. Telle Whitney, President and CEO of the Anita Borg Institute. "Together with Google's support, we will continue to honor Anita's vision of finding exceptional women in computer science and technology." Alan Eustace, Vice President of Engineering & Research at Google adds "It is an honor to team up with the institute and continue Anita's efforts to support and encourage women in computer science and technology. Google was itself born of college research and we look forward to the achievements of these outstanding young women."

### *Borriello Article leads CACM special issue on "The Disappearing Computer"*

CSE Professor Gaetano Borriello was tapped for the lead article in a recent CACM special issue. "*Delivering Real-World Ubiquitous Location Systems*," which was co-authored with Anthony LaMarca (CSE Ph.D 1997), Matthew Chalmers, and Paddy Nixon, begins: "To be widely accepted, location-aware computing must be as effortless, familiar, and rewarding as searching the Web. There are many challenges to this quest, but recent progress has demonstrated accurate location estimation using available wireless networking."

# Ladner Wins Presidential Award

"I think it's a statement by the NSF that persons with disabilities really matter and they should be involved in the enterprises of science, mathematics and engineering."

But, he added, the honor was also inspiring.

"When you get an award like this, it's not an invitation to rest on your laurels. It's actually a challenge to do more," Ladner said. "You feel like Popeye -- you've got your spinach, you have a little extra muscle in your arms and you're motivated. And that's the expectation, I think. Even the NSF people asked us what we were going to leverage this into."

"I was really lucky to have his advice," says Sangyun Hahn, CSE's first blind doctoral student, remembering meeting Ladner shortly after he arrived on campus. Ladner introduced him to University community members who provide services to disabled students, and Hahn received an electronic Braille device that has since become indispensable to him. But his involvement with Ladner didn't end there. Ladner asked Hahn to join him on a new research effort to create an automatic system for translating scientific illustrations into Braille.

Hahn agreed, and the Tactile Graphics Project was born. Since 2003, this joint effort by Computer Science & Engineering, the Information School, and Disabilities Opportunities, Internetworking and Technology (DO-IT) has enabled Hahn and nearly a dozen other students to become involved in research that is helping to open the doors of science, math,



*At the formal presentation of new Braille campus maps to the office of disability services, blind UW student Zach Lattin takes a turn reading the new maps, as CSE grad student Ken Yasuhara and Pat Smith-Major from UW Facilities Services look on. The new maps were produced by the Tactile Graphics Project.*



*Michael J. Denton of Boeing (right) presenting Richard Ladner with the Boeing Professorship in Computer Science & Engineering, at an awards breakfast held on May 3.*

and engineering to the visually impaired (see article profiling the Tactile Graphics Project in MSB issue 15.1).

"We in the College of Engineering know the importance of Richard's work and it is great to see him get national attention for it," said Mani Soma, Acting Dean. "The fact that we had a winner last year and have had three winning programs earlier than that speaks volumes for our commitment to diversifying the engineering force so we can effectively meet the challenges of today's global marketplace."

Recently, as part of the Tactile Graphics Project, Ladner led a group of undergraduate students in an effort to provide accurate, useful maps of campus for blind students and staff. The maps in use were old, outdated and had to be checked out by those who needed them because they were so few in number. At a gathering earlier this year, Ladner and the students presented blind members of the campus community with their own new maps, updated with such vital information as the location of bus stops and pedestrian bridges. Thanks to the group's work, changes can be made via computer and new maps printed in a matter of minutes for a minimal cost.

Ladner's win makes two in a row for UW Engineering. Last year, Denice Denton, then Dean of the College, won for work she has done to make science and engineering curriculum more accessible to women and minority students. In addition, three programs affiliated with UW Engineering have won the award in the past -- the Disabilities, Opportunities, Internetworking and Technology program was recognized in 1997, Women in Science and Engineering got the award in 1998, and the Washington Mathematics, Engineering, Science Achievement program received it in 2000.

## more datagrams

### *UW CSE startup Hamlet rebrands as Farecast*

The Seattle PI reports that Hamlet, a company started by UW CSE Professor Oren Etzioni, has secured second-round financing from Greylock Partners, who join prior investors The Madrona Venture Group and WRF Capital. Total financing now stands at \$8.5 million. Additionally, the company has rebranded itself as Farecast and launched its website. Farecast's technology allows people to predict prices of airline tickets from various carriers. The technology could help someone decide *when* to buy tickets in order to get the *best* price. The company is growing at a healthy rate, and has recently moved into new offices in the Lower Queen Anne neighborhood of Seattle, according to CEO Hugh Cream, formerly of online travel company Priceline.

### *UW CSE startup Teranode secures additional financing*

The Seattle PI also reports that Teranode, co-founded by former CSE Research Professor Larry Arnstein, has raised \$9.5 million in venture capital financing in a deal led by Cargill Ventures and Trident Capital. Existing investors Ignition Partners and WRF Capital also participated in this round. Teranode makes software that helps scientists better design and automate laboratory experiments. Its products have been used by Pfizer, AstraZeneca and the Fred Hutchinson Cancer Research Center.

### *Venkat Guruswami and Mark Oskin win CSE's 13th and 14th Sloan Research Fellowships*

CSE faculty members Venkat Guruswami and Mark Oskin have been named winners of 2005 Sloan Research Fellowships. Sloan Research Fellowships are intended to enhance the careers of the very best young faculty members in specified fields of science. Currently a total of 116 fellowships are awarded annually in seven fields: chemistry, computational and evolutionary molecular biology, computer science, economics, mathematics, neuroscience, and physics. Guruswami and Oskin are CSE's 13th and 14th Sloan recipients: Steve Gribble and David Wetherall received Sloans in 2004, Pedro Domingos and Zoran Popovic in 2003, Steve Seitz in 2002, Raj Rao and Dan Suciu in 2001, Brian Curless and Chris Diorio in 2000, Alon Halevy in 1999, David Salesin in 1995, and Tom Anderson in 1994.

### *David Salesin's work featured in Nature*

At the *Image and Meaning 2* conference, held in June at the Getty Art Museum, artists and scientists from around the country gathered to explore the use of images in science, for both understanding data and communicating it to others. "The audience was impressed when David Salesin, a computer

scientist at the University of Washington, presented the interactive visual tools that he is developing for Microsoft. Salesin showed software that can construct realistic-looking aerial photographs from maps after being trained with a few real photo/map combinations. He also had programs that could blend different faces, and automatically turn random objects into 'Escher tiles': these are shapes that can be rotated to fill a space without leaving any gaps."

### *Rick Cox, Tapan Parikh win Intel Foundation Ph.D. Fellowships*

UW CSE Ph.D. students Rick Cox and Tapan Parikh have been named recipients of Intel Foundation Ph.D. Fellowships. Cox's fellowship research will focus on systems support for new application usage models that can more directly provide security and robustness. Parikh's fellowship research will focus on designing accessible, inclusive technologies -- user interfaces and computing devices that span traditional boundaries of education, economy, geography, and language.

### *Brett Newlin, CSE senior, profiled in Husky Rowing News*

"We all know that athletes who row are taller, stronger, and smarter than athletes who choose other sports, but sometimes an oarsman comes along who surprises even us. Consider Brett Newlin. At six feet nine inches tall and 240 pounds, he is bigger than either standout Husky basketball forward Mike Jensen, or Supersonic enforcer Danny Fortson. And as a Dean's List student in Computer Engineering, one of the University's most demanding and rigorous disciplines, he defines the scholar-athlete concept."

## big ideas require a lot of space....



One of the nicest features of the new Allen Center is the number of full-wall whiteboards throughout the building. Here, a couple of students utilize the space to its full capacity!

## Fries family takes “Honorary Mother” to heart ... and to CSE

Little did Marilyn Fries know, as a UW CSE graduate student in the mid-1970s, that she was the vanguard of a Fries family computer science dynasty. All three of her children — oldest son Bob and twins Ed and Karen — forged careers in the field, and at one time all four family members worked at Microsoft. To honor their mother’s accomplishments and her role model status, the Fries siblings have established the Marilyn Fries Endowed Regental Fellowship in Computer Science & Engineering. The Campaign UW Matching Initiative bolstered the \$500,000 endowment by another \$250,000.

The endowment will support outstanding graduate students, with preference given to women. Last Christmas the Fries siblings surprised their mother by presenting her with a glass replica of the endowment plaque in a box decorated with early computer punch cards on top. “I didn’t have an inkling,” Marilyn says. “It just blew me away.”

For the siblings, the punch cards evoked memories of childhood visits with their mother to the computer lab in the basement of Roberts Hall (CSE’s first building) to pick up printouts for her graduate student research projects.

Always ahead of the curve, Marilyn was the first female graduate in chemical engineering at Bucknell University. After moving to Seattle with husband Jim, an electrical engineer, she worked at Boeing testing heat shield tiles for space vehicles, then an unusual job for woman. The desire to try a new field with fewer barriers to advancement led her to the CSE graduate program.

After earning her MS degree, Marilyn worked at Digital Equipment Corporation’s Bellevue office providing technical support for customers. That led to a position at DECwest Engineering, a group that was developing the first microprocessor VAX under Dave Cutler’s leadership. There Marilyn worked on a new operating system and later managed a group building networks. After retiring from DEC, she worked for a time at Microsoft as a contract technical writer.

All three Fries siblings caught the computer bug — Ed in high school when he got hooked on programming, Bob as a UW EE major taking CSE courses, and Karen somewhat later, after earning UW degrees in psychology and business. Bob also worked at DEC and DECwest, and then moved to Microsoft in 1988 with Cutler and other UW alums and

friends including Mark Enstrom, Gary Kimura, David Robinson, and Rob Short. He focused on hardware design and consumer electronics, and now manages a group that develops software for servers and for data protection.

Karen was first a recruiter at Microsoft, then marketed products such as Flight Simulator and Publisher, and later evolved into software design. She now works on search, online help, and

speech-recognition projects and is “passionate about making computers easier to use.” Ed started at Microsoft in 1985, became one of the first programmers for Windows Excel, and then managed the Word and Excel groups. “After 10 years I felt like I had made the world productive enough and wanted to have some fun,” says Ed, an ardent gamer. He took on leadership of the MS Games Studios and co-developed the X-Box project. Since leaving Microsoft in early 2004 he has helped form several startup game companies.

Clearly, anyone who uses a computer has benefited from the work of the Fries family. Our mother is “always giving to others,” Ed says. “She fought for women in engineering her whole career, and was president of the Society of Women Engineers, so the fellowship furthers something she believed in.” “We have immense respect for what our mother accomplished,” Bob says. “The number of women in the computer field is still small, and through the endowment we are making it easier for others to follow the same path.” Karen adds: “She did it all and she is still amazing. She even has a pilot’s license and learned aerobatics, and she and my father take adventurous bush pilot trips to Mexico and Alaska.”

While Marilyn flies high and far in retirement, the fellowship will inspire inbound generations of CSE students.



*Marilyn Fries (center) holds the endowment plaque given to her last Christmas by her children. Husband Jim is at far right. Ed (far left) holds Jasper, a member of the next Fries generation. Bob and Karen stand by their mom.*



## Meeting his scholarship students and sharing life lessons is pure pleasure for Brian Yamasaki

Brian Yamasaki claims he can't account for his success, though he does credit the ever-critical attribute of hard work and the ever-mysterious force of luck as his career took a twisting path through the high-tech universe in the Seattle to Silicon Valley corridor.

"I like to give students my 'charmed life' speech," Yamasaki says with a laugh. Based on his own experience, he advises them to "work with people you like, respect, and trust," and that given a choice between being the smartest person in an average group or the dumbest person in an exceptionally talented group, "choose to be the dumbest because you will learn so much more." Finally, he urges them to make a contribution to the world, but also "Make a million bucks if you can. More power to you," he affirms.

Each year he imparts his philosophy during lunch with the CSE student supported by the Yamasaki Endowed Scholarship in Computer Science & Engineering. "Students love talking with Brian. His message resonates with them," says Professor John Zahorjan, who helps select the scholarship recipient annually and who inspired Yamasaki during his student days.

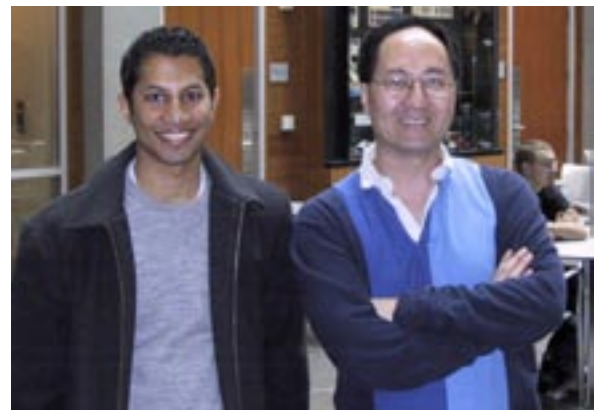
As a freshman, Yamasaki entered the UW with few goals — to earn a business degree and then get a job. The technology bug "bit him" when he took an introductory computer science course and then "just couldn't stop," even though his previously high GPA plummeted. Not a problem. Classes full of smart people and taught by exceptional faculty motivated him to achieve his highest potential. His personal epiphany came during a final exam in Professor Zahorjan's programming class when in just six lines of code he had to write a program to navigate a maze. "The answer just came to me, and I knew that I understood the course. It was so cool," Yamasaki says.

In 1986 he graduated with a double major in computer science and business and headed to Portland to work for a high-tech company producing processors for scientific computations. By Halloween he went through his first layoff when the company hit financial turbulence.

Back in Seattle, he applied to Microsoft because a friend was there. Surprised to be hired, he worked on Chart for DOS for a year. When the manager went on vacation, he was "yanked over" to the Excel group, where he became a team lead for Excel charting (and a colleague of Ed Fries, page 6).

"It was exciting because it was the next wave," Yamasaki says. Charmed again, he moved to the team developing Microsoft Picture It, just at the beginning of the digital camera wave. His next move, to Silicon Valley, led to a position at an Internet consulting company with clients such as Netscape, Oracle, and Microsoft. In California he also met his wife, Debora Chen, and in 1998 they returned to Seattle. A former Microsoft friend urged him to come work for Sucker Punch Productions, then a tiny startup video game company — even though he never played games and didn't know the business. Although it was a wonderful experience, a problem with repetitive stress tendonitis in his lower arms and the pending birth of his first son prompted a transition to full-time dad in 2001.

Yamasaki reconnected with CSE during the campaign to build the Paul G. Allen Center. "I was glad to help with the building, but I was even more interested in starting a scholarship to 'pay back' one I received as an undergrad." He's excited by the chance to help talented students succeed. The business side of him is thrilled that he was able to triple his donation through a 100% match from his wife's employer, Nintendo, and the 50% match on the \$100,000 total through the Campaign UW matching initiative. "The endowment is a real legacy," Yamasaki says, "but the best part is meeting the students."



Brian Yamasaki (right) and 2004 scholarship recipient Saurav Chatterjee in the atrium of the Paul G. Allen Center.

### Campaign UW Progress

As of August 15, 2005, CSE alumni and friends have established 14 endowments through Campaign UW. We call it the "people part." Endowed scholarships, fellowships, professorships and chairs support the great work of CSE students and faculty, and we encourage you to join us. These endowments are already making a difference. Contact us today for more information about how to become part of the people part!

You may reach CSE Professor Ed Lazowska at 206-543-4755, [lazowska@cs.washington.edu](mailto:lazowska@cs.washington.edu); or Lee Anne Scott, College of Engineering, at 206-685-8359, [scott@enr.washington.edu](mailto:scott@enr.washington.edu).

**just because I majored in computer science doesn't mean I don't have a mean backhand...**



Constantinos Papadopoulos, CSE computer engineering major, has been playing table tennis since he was 12. In his home country of Cyprus, he even competed on the national team from age 15 to 18.

"It's much more competitive in Europe and China. We have bigger and more powerful sponsors that help us. Here it's harder because people are not at the point of watching so much."

Now playing for the UW Table Tennis Club (UWTTC), Papadopoulos won the regional tournament last season and competed in nationals this past season.

"He happens to be one of the better players, and he was instrumental in leading our team to nationals," said UWTTC President Andy Overton.

According to Papadopoulos, training sessions are very intense on an elite level. Players run and focus on footwork, flexibility and movement drills. They also do some weight training, mainly focusing on the lower body.

Over the last ten years that he's been playing, Papadopoulos has noticed changes in the sport. "Much faster, much stronger, better athletes," he said. But because training takes so much time, Papadopoulos said it becomes an occupation, and he is unsure whether he will compete on a national level again. "People ask me all the time," he said. "I would like to in one sense, but I'd have to throw off all my school, career, everything. Do it really seriously, or don't do it."

## UW CSE 2005-06 DISTINGUISHED LECTURER SERIES

10/4/2005: Owen Astrachan, Duke University  
*"On the Cruelty of Really Teaching Computer Science Redux"*

12/1/2005: Cynthia Dwork, Microsoft  
*"Helping Kinsey Compute: Statistics with Secrecy"*

12/8/2005: Ross Anderson, University of Cambridge  
*"Satan's Computer - Revisited"*

1/5/2006: John Guttag, MIT  
*"Shortening the Control Loop in the Management of Chronic Disease"*

1/12/2006: Daphne Koller, Stanford University  
*"Probabilistic Models for Complex Domains: Cells, Bodies, and Webpages"*

see [www.cs.washington.edu](http://www.cs.washington.edu) for more information

## **moving to a new building? we can sympathize...**

While our move from 'beautiful Sieg Hall' into our new digs in the Paul G. Allen Center just two years ago went incredibly smoothly, we could certainly sympathize with CSE Ph.D. alum Geoff Volker, now a professor in computer science at UC San Diego. Recently, their department moved into a brand new building.

"There was... confusion today. A bunch of the movers were expecting to leave at 3:30 pm. They didn't realize that the 5th floor needed to be moved, etc. We talked with the head guy to make sure that they would still work beyond 3:30 pm. Now, to handle the move load, apparently they hired some temporary people to work on the project. Three of them were still taking a break when they should have been back to work. One of the regular guys told them to get back to work. They didn't like his attitude, so they started beating up on him. Three other regulars saw what was going on and jumped into the fray. The end result: four police cars, 12 police officers, three arrests, one guy required stitches to his head, another had his ear messed up, etc., and seven fewer people working on the move! But we get to stare at a giant rock teddy bear."

See <http://ucsdnews.ucsd.edu/newsrel/science/Bear.asp> for bear photos.



## lazowska receives computing research association's 2005 distinguished service award

At the ACM Awards Banquet in San Francisco on June 11, 2005, CSE's Ed Lazowska was awarded the CRA 2005 Distinguished Service Award. CRA bestows the award, usually annually, to a person who has made an outstanding service contribution to the computing research community. This award recognizes service in the areas of government affairs, professional societies, publications or conferences, and leadership that has a major impact on computing research.

Said one supporter of his nomination: "Ed Lazowska is a most worthy recipient of the CRA Distinguished Service Award given his prodigious service to our community over multiple decades. He has served on more committees with national impact than almost any other computer professional I know, and continued to do so even while he was the highly proactive chairman of the University of Washington's distinguished computer science department."

Lazowska chairs the Defense Advanced Research Projects Agency's Information Science and Technology (ISAT) study group and served as a member from 1998-2001; he also chairs the Peer Committee for Section 5 (Computer Science & Engineering) of the National Academy of Engineering. He is a member of the Executive Advisory Council of the National Center for Women and Information Technology, and also has served on a number of industry advisory boards.

Recently Ed completed six years of service on the National Research Council's Computer Science and Telecommunications Board (CSTB), and served on the NRC Committee on Improving Learning with Information Technology. In addition, Ed served on the NRC Committee on Science and Technology for Countering Terrorism—Panel on Information Technology, as well as contributing extensively to the creation of the CSTB summary report "Innovation in Information Technology" and co-chaired the President's Information Technology Advisory Board (PITAC).

Among the other distinguished recipients of this award is Ed's undergraduate mentor and friend, Andy van Dam from Brown University, recipient of the 2002 award.



At the ACM Awards Ceremony: CRA Executive Director Andrew Bernat; Ed Lazowska; CRA Chair Jim Foley; and ACM President Dave Patterson.

## a 'new view' of the paul g. allen center....



A recent graduate student project in the Computer Vision course involved "Panoramic Mosaic Stitching" in which students implemented systems to combine a series of photographs into a 360° panorama, correcting for error in overlap and placement, and creating seamless photographs which can be viewed over the web. The panorama above, taken by CSE grad student Yongjoon Lee from the 6th floor stairwell landing in the Microsoft Atrium, consists of 74 separate images. More information on this project, as well as additional examples, can be found at [www.cs.washington.edu/education/courses/cse576/05sp/](http://www.cs.washington.edu/education/courses/cse576/05sp/).

# more datagrams

## *Lazowska discusses cybersecurity issues*

FOXNews.com recently interviewed UW CSE Professor Ed Lazowska, former co-chair of the President's Information Technology Advisory Committee (PITAC), regarding federal support for cybersecurity. PITAC released a recent report stating that the federal budget for civilian cybersecurity research is inadequate. The committee recommended that lawmakers increase the National Science Foundation's budget in this area. "We are applying Band-aids," Lazowska said, noting that gaping holes in Internet security put many public and private information systems and critical infrastructure at risk. "We need to think about new designs rather than these patches."

## *Spring, Mahajan, Wetherall, and Anderson win 2005 William R. Bennett Prize*

CSE Ph.D. students Neil Spring (now a faculty member at the University of Maryland) and Ratul Mahajan and faculty members David Wetherall and Tom Anderson have won the 2005 William R. Bennett Prize, given annually to the best original paper published in IEEE/ACM Transactions on Networking, for their paper "Measuring ISP Topologies with Rocketfuel." The paper was forwarded to ACM/IEEE TON as a "Best Paper" from the 2002 ACM SIGCOMM Conference.

## *Faculty and students interviewed regarding CS jobs outlook*

The Seattle PI recently interviewed CSE's Matt Burkhart and Ed Lazowska on the state of the job market for CSE grads. "This year was much more like 1999 and the spring of 2000 than anything else in recent memory," said UW computer science professor Ed Lazowska. He said many students graduating from the program received multiple job offers or transferred directly from internships into permanent positions ... "It's a great field, it's incredibly creative," he said, "and there are jobs out the wazoo." The Seattle Times also profiled CSE chair David Notkin, who discussed computer science as a career. "What computers really do is enhance what we can do mentally, Notkin says, in the way the industrial revolution expanded the range of physical things we could do. And the field is so new it has hardly touched its promise. There's still a lot of exciting stuff to do ... And he has a really cool Moses-like beard."

## *Google CEO visits Seattle and UW CSE*

Google CEO Eric Schmidt visited Seattle in May to provide the keynote address at the annual Technology Alliance luncheon. Later that afternoon, Schmidt gave another presentation to

UW CSE faculty and students. One of the main topics discussed was the global supply of engineering talent. Schmidt echoed the Technology Alliance's concerns about U.S. investment in the future, saying the government 'is doing stupid things' like cutting basic science research funding. Schmidt also praised the local pool of talent, telling the UW audience, "We're working on making sure we get the very best and brightest, and this is one of the three or four universities where we find them. So my first and foremost message is 'thank you,' and, ah, we'll take your siblings ... your children ... we have a long term view of this issue ... we know where you are!"

## *CSE AI researchers win top honors at IJCAI*

CSE faculty member Oren Etzioni, researcher Stephen Soderland, and grad student Doug Downey received one of three 'best paper' awards this year at IJCAI, one of the premier conferences in this field, for their paper entitled "A Probabilistic Model of Redundancy in Information."

## UW CSE Ph.D alumna Gail Murphy wins inaugural Dahl-Nygaard Prize



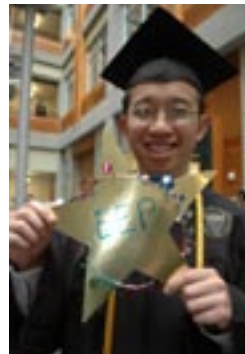
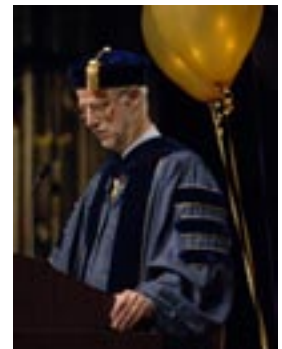
UW CSE Ph.D. alumna Gail Murphy, now a faculty member at the University of British Columbia, has been honored with the first annual Dahl-Nygaard Prize, named for Ole-Johan Dahl and Kristen Nygaard, whose foundational work on object-oriented programming, made concrete in the Simula language, is one of the most important inventions in software engineering.

In honoring Murphy, the selection committee wrote "Gail Murphy has shown promising potential as a young researcher by proposing innovative ideas and by proving that these are conceptually sound and realistically implementable. She focuses her research and teaching on software engineering, and she has made contributions to understanding and reducing the problems associated with evolving large software systems. Like Dahl and Nygaard, Murphy challenges students to look at new things, be it aspects or performance measurement, with a disciplined questioning eye. She encourages the development of sound theories backed with the practice of prototype implementations in preparing a new generation of researchers."



## Scenes from Graduation 2005

Rain and blustery gray skies didn't dampen spirits for CSE's June 11 graduation celebration. At the ceremony in Meany Hall, 153 students received bachelor's degrees, 68 received their masters, and 26 received doctorates. Professor Richard Ladner's graduation address sent them on their way with words of inspiration. Family, friends, and faculty celebrated with the graduates at a reception in the Atrium of the Allen Center.



Photos by Dan Lamont

# photos from the cse friends and family ice cream social at the 2005 engineering open house



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## most significant bits

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