FROM THE DEPARTMENT HEAD, DR. ALAN L. THARP

Growth

has been the watchword over the past year. The number of graduate students has grown by 50% in the past year while the number of undergraduate majors has increased by 35% over the past two years. The department now has 1,000 undergraduate majors and 300 graduate students and teaches more than 14,000
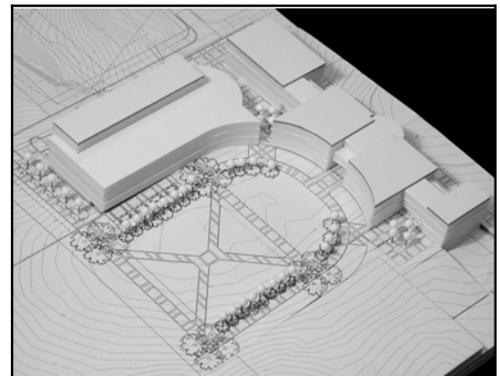
students per year. It has been a true challenge to meet this growth with high quality programs. Two of the four College of Engineering Senior Awards this year went to computer science students. Of the May 2001 graduates, 50% graduated cum laude or higher. Over the past five years, North Carolina State University computer science students have received the Computing Research Association s award for the most outstanding female undergraduate researcher and for the most outstanding male undergraduate researcher. Approximately 50% of the first round of financial aid offers to new graduate students were accepted this year. The number and quality of the faculty continue to grow. Nine faculty have now received NSF CAREER development awards over the past five years. Six tenure track faculty members will be joining the department in the next academic year including Dr. Jon Doyle of MIT who will be filling the SAS Institute Chair. Several faculty have received University teaching awards. Research expenditures have tripled over the past four years.

The ePartners program was successfully launched with there now being four Super ePartner and four ePartner companies partnering closely with the department. For the department to realize its

mission and goals to serve the citizens and industry of North Carolina with leading-edge teaching and research, it will be necessary to obtain support beyond that provided by the State.

The new building for computer science for which funding was obtained by the higher education bond referendum in NC last fall is now in the design phase with occupancy scheduled for early 2005. Unfortunately, because of the growth noted above, the funds provided for this building will not be sufficient to house all the departmental activities. It will be necessary to investigate other sources of funding to provide the space necessary to support quality educational programs.

The opportunities for future growth abound, not only in numbers but more importantly in the character of the department s interactions with its constituencies.

The architects model above shows the new CSC/ECE building at the head of the ceremonial ova which the College of Engineering will be organized around.

FACULTY NEWS

Dr. Ana Anton s NSF ITR proposal entitled "Aligning Societal Values, Privacy Policy, and IT Requirements" was recommended for funding of $355,000 for two years (2001-2003). This research focuses on how society uses, values, and protects citizens' personal information. From the perspective of system design, software engineers need methods and tools to enable them to design systems that reflect those values and protect personal information, accordingly. This research examines how privacy considerations and value systems influence the design, deployment and consequences of IT.

Dr. Purush Iyer s proposal "Automatic Analysis of Probabilistic Systems" has been recommended for funding of $258,648 by the US Army Research Office. The research will run from July 1st of this year for three years. The project will investigate how formal methods can be used to address both logical correctness and reliability/ performance constraints for net-based applications.

Dr. David McAllister s instructional grant proposal "The Development of Low Cost Stereo Animation Tools for Teaching 3D Visual Concepts" has been funded in the amount of $2400. The project will begin in the next fiscal year.

PROMOTIONS AND NEW APPOINTMENTS

Dr. Jon Doyle
  Professor and SAS Institute
  Chair of Computer Science

Dr. Rudra Dutta
          Assistant Professor

Ms. Margaret Heil
  Assistant Director and Team
  Coordinator for the Senior
  Design Center

Dr. Frank Mueller
          Assistant Professor

Dr. Peng Ning
          Assistant Professor

Dr. Doug Reeves
          Full Professor

Dr. Injong Rhee
          Associate Professor

Dr. Robert St. Amant
          Associate Professor

Dr. David Thuente
  Associate Professor and
  Assistant Department Head

Dr. Laurie Williams
          Assistant Professor

Page Wins College of Engineering SPA Award

From left to right: Sarah Rajala, Associate Dean for Academic Affairs, stands alongside Margery Page and the other recipients of COE Awards for Excellence.

The College of Engineering Award for Excellence Ceremony was held on March 29, 2001, and the Computer Science Department s very own Margery Page, Graduate Secretary, received a College SPA Award for Excellence. This is quite an achievement considering the outstanding set of nominees. With the increased number of applicants applying to the graduate program, Margery has done an outstanding job.

Computer Science Enhancement Endowment

The Computer Science Department has just established a new endowment fund to be named the Computer Science Enhancement Endowment. With the help of contributing Alumni and Corporate Partners, we hope to place ourselves among the top ten public computer science departments in the country. In the future, the endowment will be used to support activities that will provide a higher quality educational experience for students than would be possible from relying solely on State funds. Such activities will include faculty and student recruiting and curriculum development. Contributing to the endowment will leave the department with everlasting benefits. If you are interested in making a contribution to the new endowment, please refer to the form on page five of the newsletter for more information.

A Family of Wolfpackers

Daniel Amerson, a May 2001 CSC graduate, heard stories about NC State from the moment he was born. Coming from a family in which five people have taken classes and three have received degrees from NC State, he is well aware of the Wolfpack tradition. He vividly remembers working on science projects at Gardner Hall with his father who is an Associate Professor in the College of Natural Resources.

The family history started with his grandfather who attended NC State to study Mechanical Engineering. While he would have been a part of the Class of 1944, he never graduated because of WWII. He took over the family business and always looked back fondly on his time at NC State. The next member of the family to attend NC State was his father who can still be found on campus today. After receiving degrees in Biology and Botany from UNC Chapel Hill and ECU, Daniels father received his PhD in Botany with a minor in Plant Pathology from NC State in 1976. He is now an Associate Professor in the College of Natural Resources. His mother followed next by taking accounting classes while preparing for the CPA exam, and then his brother attended majoring in Chemical Engineering and receiving his BS in 1999.

When deciding which university to attend, Daniel ranked NC State on his list of top technical schools. Interviewing for a Park scholarship also allowed him to meet many interesting people on campus which made NC State one of his top choices. Last but not least, family support also played a role in making such an important decision. Daniel went on to become a Park scholar and graduate as one of the valedictorians of the class of 2001 with a BS in Computer Science.

Like many college students, Daniel started his college years by trying to decide what to study. After going through various majors including being undecided and computer engineering, he settled on studying computer science and working towards a minor in economics. His years at NC State were filled with activity. The Park Scholars program involved him in seminars and classes that developed his leadership and management skills and gave him opportunities to meet with numerous city leaders while working on service projects such as Service Raleigh. He also did research will Dr. Michael Young in the CSC department on Interactive Narratives and had a paper published in March 2001. He also received the College of Engineering Senior Award for Scholarly Achievement in May.

Alumnus Troy Tolle (bottom center), Lecturer Carol Miller (immediately behind Troy), and other volunteers work on getting the donated workstations set up at Waynesville.

NC State Engineering Students Assist Waynesville Middle School with Computer Donations

FROM LINDA RUDD

Students in small towns frequently deal with the frustration of inadequate access to contemporary computer technology. Thanks to a group of computer science students from NC State University, one middle school in western North Carolina will be able to update their computer capability.

The Association of Computing Machinery and the Association of Information Technology Professionals (ACM/AITP) are two service organizations that act as one and represent computer science students at NC State. ACM/AITP found out about the computer needs of Waynesville Middle School through computer science graduate Troy Tolle (BS 98; MS 00), who attended school in Waynesville. The NC State students were anxious to help so three years ago they arranged for networking cable to be installed in the eighth grade classrooms, using donations from several companies, to help the school improve their technology.

On March 31, 2001, ACM/AITP implemented the second phase of the project, which involves installing 30 newly donated computers in the classrooms. The Goodwill Community Foundation of Goodwill Industries International Inc. donated the computers, including monitors and keyboards, for the project. Microsoft Corporation donated the software programs Microsoft Office 2000 and Windows 98.

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CATCHING UP WITH ALUMNI
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Greg Hester
Class of 1990

I am founder and part-owner of CrossLogic Corp. which is an Object Technology Consulting firm. We do work for First Union, FedEx, American Century, IBM, Blue Cross just to name a few. We have around 60 persons and consult all over the US. Our main skills are OOAD, Java, Java Servlets, JSPs, XML and XSL. We are IBM Premier Business Partners, Rational Partners, and TogetherSoft Partners.

Alton Patrick
Class of 2001

Alton Patrick was awarded both a 2001 NSF Graduate Fellowship and a 2001-2002 National Defense Science and Engineering Graduate Fellowship (NDSEG). The latter is sponsored by the Office of the Deputy Under Secretary of Defense for Science and Technology and the Army Research Office and is administered by the American Society for Engineering Education (ASEE). Alton's application was selected from nearly 1,500 applications this year. This fellowship will cover his tuition and required fees for three years at any accredited U.S. college or university that provides advanced degrees in science and engineering. In addition the fellowship will provide him with a yearly stipend. Alton has been accepted to the Computer Science PhD programs at Georgia Tech, University of Illinois - Urbana Champaign, and Purdue University. Georgia Tech has offered him a prestigious President's Fellowship.

Richard W. Cornetti
Class of 1988

My company (Spirent Communications) is moving into Floor 2 at Venture III on Centennial Campus. It s nice to be back at State!

WE WANT TO HEAR FROM YOU!

PLEASE SEND YOUR ALUMNI NEWS AND UPDATES TO BRENNAN@CSC.NCSU.EDU

ALUMNI PROFILE: ROSS SCROGGS

Returning to NC State after thirty years, Ross Scroggs noticed a number of changes that the university as well as the Department of Computer Science has undergone. The trees in the brickyard had just been planted when he was taking classes toward the BS in Computer Science that he received in 1971. Walking across campus, he could not get over how much they had grown and the number of new buildings that had been added. Nelson Hall once housed the Computer Center where he spent lots of time hanging around while he was running his jobs. Ross said, Now programmers can run jobs anytime. Before you had to think of all the time issues that were involved. Learning to program using punch cards was a world away from the way students learn to program today. Ross vividly remembers waking at 3am to go to the Computer Center to submit a job so that he could get results more quickly. Programming was a communal activity rather than the individual activity that it has become today. Many ideas were exchanged and friendships forged while waiting for results to be processed in the Computer Center.

After graduating in 1971, Ross went on to receive his MS in Computer Science from Carnegie Mellon in 1973. He then went to work for ITEL, a financial services company, where he worked with modeling systems. He also worked at the Stanford Research Institute before starting his own company, Telamon, in the late 1970s. Telamon got its start before the PC arrived on the technology scene by building a single computer to put between a big computer and a device to transfer information. Now Telamon is a leading developer of urgent messaging solutions for extending information from enterprise applications to a broad array of wireless devices. In February 2001, Telamon was acquired by Vytek Wireless, Inc., a wireless systems and services integrator. Ross plans to retire in August and start again in his pursuit for knowledge. We congratulate Ross on his success in the field of computer science and wish him luck in the future.

Symposium on Requirements Engineering for Information Security

FROM DR. ANA ANTON

The Symposium on Requirements Engineering for Information Security (SREIS) was held in Indianapolis at Purdue University on 5-6 March 2001. The symposium, the first in a series, leading to better understanding of how to design and build systems with a higher level of assurance, was sponsored by CERIAS and NIAP in cooperation with the North Carolina State University E-Commerce Learning Center, ACM SIGSOFT, ACM SIGACT and INITA.

The symposium was driven by an effort to bring together two research communities with similar interests, but limited contact: the requirements engineering and information security communities. The primary goal of this new symposium series is to stimulate under-standing, cross-fertilization, and technology transfer between and among practitioners and researchers in the two aforementioned communities. The two-day event provided an interactive forum for researchers and practi-tioners to discuss security and privacy-related requirements. We hope it will lead to the formation of alliances to solve problems together in the future.

The next SREIS will be held in Raleigh, North Carolina next year. Stay tuned to http://www.sreis.org/ for the Call For Papers and Participation!

College of Engineering Senior Awards

Daniel Amerson

Congratulations to Saunak Chakrabarti and Daniel B. Amerson for receiving Senior Awards at the Engineer's Council Awards Banquet this Spring. Saunak received the award for Humanities, and Daniel received the award for Scholarly Achievement. Considering the many outstanding seniors in the College of Engineering, receiving these awards is quite an achievement.

Saunak Chakrabarti

Computer Science Enhancement Endowment or Fund

Support from our alumni allows us to make advances in our program beyond that which State funds allow. If you would like to contribute to the Computer Science Enhance-ment Endowment or Fund, please fill out this form and return it to our main office. When making your choice of which to contribute to keep in mind that the Endowment supports future spending to advance the department while the Fund supports current spending needs. Please send your contribution to: Department of Computer Science, Director of ePartners, NC State University, 226 Withers Hall, Raleigh, NC 27695-8206. We greatly appreciate your support.

Please make your check payable to: **NC State Engineering Foundation, Inc.** (Make note of: CSC Enhancement Endowment or Fund)

I would like to contribute to the Computer Science Enhancement:
Endowment _____   Fund _____

Name of donor: _____
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Address: _____
_____

Does your company have a matching contribution program for gifts? _____

Company contact: _____

Amount of contribution: _____

SUPER EPARTNERS

Nortel Networks is a global leader in internet and telecommunications networking. Nortel Networks was named one of Business Week s e.biz Web Smart 50", SmartMoney s Top 10 Stocks for the Next Decade, Red Herring ranked Nortel Networks as one of the 50 most influential publicly held companies, while Upside listed John Roth as one of High Tech s Top 100 High Rollers for 2000.

Network Appliance, Inc., a veteran in network file storage and content delivery, has been providing data access solutions since 1992, and is a member of both the S&P and NASDAQ 100 index. In the year 2000, Network Appliance established a strong presence in the RTP area with a new facility hosting engineering, customer support, marketing and sales organization.

EMC Corporation is the world leader in information storage systems, software, networks and services and the provider of the most robust, secure, and trusted information storage infrastructure in the world. Our products and services ensure fast, round-the-clock access to the vast quantities of information that businesses must have in order to prosper in the Information Economy. To our customers, EMC is the caretaker of the world s information.

John Deere Worldwide Commercial & Consumer Products Equipment Division, a business unit division of Deere & Company, is proud to be a co-sponsor of the ePartners initiative with North Carolina State University. The C&CE Division manufactures a full line of lawn care products for residential, commercial, and golf and turf applications. These products are distributed through its network of independent retailers. The Division s international offices are currently based in Raleigh, NC with new headquarters under construction (completion expected in late 2001) in Cary, NC. The Division also has 11 North American locations and two in Europe.

EPARTNERS

Alumni Profile:
William Weiss

William (Bill) Weiss, who graduated from the CSC department with a BS in 1976, has been a businessman for most of his life. Having started his first small business in high school doing direct marketing of consumer entertainment, Bill came to college seeking something different than the average student. From the start, he was a visionary looking to combine his technical knowledge with business strategy.

During his time at NC State, Bill had a number of memorable experiences. He remembers vividly A.R. Manson s Statistics class that taught him the structural thinking that has been essential to his work. He also remembers the community spirit that surrounded the Computer Science department at that time. Last but certainly not least, Bill recounts selling stereo equipment his sophomore year from a gutted out Winnebago. He would park at various hot spots on campus where students flocked to attract customers.

Fast forwarding to 2001, Bill is the Chairman and CEO of The Promar Group. In this position, he uses innovative strategic guidance, global business insights, and a proactive view of future market spaces, especially those enabled by technology, to assist board and senior-level executives in designing the future of their companies. Bill believes that it is essential to design a future rather than predict one in order to drive the growth of a company. Corporations such as Ericsson, Qualcomm, Enron, IBM, Toshiba and others have sought Bill s assistance for his recognized ability to identify trends that are not yet visible to others and for his access to high profile and behind-the-scenes allies.

Bill is also a partner in ideaEDGE Ventures and Quantum Capital Management. He is one the board of directors of New Directions for News, a think tank organization promoting innovation in news media and Technauts. Bill also holds advisory board member-ships with ZoomON, a Swedish company, International Telecommunications Clearing Corporation, located in Dubai, MostChoice and OnCall Medicine.

The Computer Science department is honored to have Bill as one of our newest members on our Industrial Advisory Council. His experience and innovative ideas will be an asset to the department in this important role.

EPARTNERS RESUME DATABASE

The ePartners Resume Database is now up and running on the ePartners website. The database was developed as a bene-fit to our alumni, students, and corporate partners in an effort to help make the best match between a company and potential employee. As an alumnus, you can place your resume on the database by follow-ing these steps. Send an email to brennan@csc. ncsu.edu and ask to set up an alumni account for the resume database. Please provide your full name and a ten character password that you will use to log on to the database. You will receive a follow-up email confirming your login and password. Once you have this information, visit the ePartners web site at http://epartners.ncsu.edu and click on Resume Database. Next, click on Alumni, and you will be able to logon to the database. If you have any problems taking advantage of this benefit of being an alumnus, please contact the Director of ePartners at (919) 513-4292.

VISIT THE UPDATED CSC WEBSITE AT:
http://www.csc.ncsu.edu

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Department of Computer
Science
226 Withers Hall / Box 8206
Raleigh, NC 27695-8206

Editor: Carmen S. Brennan

THANK YOU FOR YOUR SUPPORT

The following Alumni, Friends, and Corporate Sponsors have supported the Department of Computer Science from August 2000 to June 2001. The financial support that has been given allows the department to maintain the high quality of instruction and research that we pride ourselves with here at NC State. If you are interested in joining this honored group of individuals and organizations in supporting the department, please send a check made payable to: **NC State Engineering Foundation, Inc.** and mail it to Director of ePartners, 226 Withers Hall / Box 8206, Raleigh NC 27695-8206. Please note in the memo section of your check that your gift will support the Computer Science Department.

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