Message from the Dean

IT in Academia

by Dr. Susan M. Merritt

This last summer I attended the first ever convocation of the deans of “schools of information technology or informat-ics.” This was a group of some 30 deans, 24 heads of existing schools and the others in the process of creating such schools. The institutions represented were the University of California at Berkeley, University of Michigan, Carnegie Mellon, Syracuse, Cornell, State University of New York at Albany, RPI, Georgia Tech, and others. The titles of the schools range from Schools of Computer Science and Information Technology to Computer Science and Information Science, to Information Technology and Systems, to Information Science and Technology, to Informatics.

We, CSIS, are the second oldest of these schools and colleges. We were founded in 1983 and only the University of Southern Alabama founded its School of Computer and Information Science in 1980. Many of the schools have been founded within the last three to five years. We were clearly a leader in identifying the importance of the organization of academic programs around information technology.

This convocation of deans is part of a larger meeting that is sponsored by the Computing Research Association and is referred to as “Snowbird” (because of location) that occurs bi-annually. Just two years ago in 1998 the prevailing message was that computer science programs would eventually find themselves in engineering schools. This was not particularly good news for Pace because we do not

PRUDENTIAL EXECUTIVE RECEIVES TOP CSIS AWARD

Bill Friel Honored for Leadership and Service in Technology

by Louise P. Kleinbaum, Assistant Dean and Director, Academic Systems

The Park Avenue headquarters of Bloomberg Financial Markets provided the setting for this year’s CSIS Leadership and Service in Technology Reception. Nearly 250 members of the CSIS community including faculty, staff, CSIS Advisory Board members and alumni as well as representatives from financial services and information technology firms came together on June 7 to honor William D. Friel, senior vice president and CIO of the Prudential Insurance Company of America.

In his role as chief information officer, Bill Friel is responsible for directing company-wide information systems and technology functions. In addition, he is a member of the advisory boards of Microsoft, IBM, and Intel, and serves as chair of the New Jersey Tech Corps. In 1999 he was described as one of the most successful CIOs in the insurance industry by Industry & Technology magazine and was named to their “Elite Eight.” More recently he was honored by Network World magazine as one of the “25 Most Powerful People in Networking.” Bill Friel holds an undergraduate degree from St. John’s University and is a graduate of the Advanced Management Program at the Wharton School.

The evening began with an elegant cocktail reception graciously underwritten by Bloomberg. The unusual serving platters in the form of laptop computer cases and circuit boards delighted the guests and were in keeping with the theme of the evening. An hour into the reception, the formal program began. Dr. Patricia O. Ewers, president of Pace, offered welcoming remarks and thanked Bloomberg for hosting the event as well as for generously supporting Pace on many levels over the years. Michael Bloomberg, founder and CEO of the organization that bears his name, was given an honorary degree by Pace in 1989. Dr. Ewers then introduced Sylvia Friederich, President of the CSIS Alumni Association, who also offered her greetings and encouraged the alumni in attendance to show their support and interest in the School by becoming more involved in alumni activities.

-Continued on page 2

(l-r) Sylvia Friederich, president, CSIS Alumni Association; Bill Friel, honoree; Dr. Susan Merritt, CSIS dean; and Dr. Patricia Ewers, Pace president

Inside: New Doctoral Students Feted • CSIS to Collaborate with Marist and SUNY-New Paltz
MESSAGE FROM THE DEAN
(Continued from page 1)

have an engineering school. Moreover, we have always developed our information technology education in a much broader context. We have multiple programs, some focused upon software development, others on networking, some on application of information technology, and others on organizational issues. This summer 2000 it was clear that computer science departments were moving out of engineering schools and into the newly formed schools of information technology or informatics. What is also clear is that the narrow identification of computing as an engineering discipline is not appropriate for the emerging field of information technology. IT embraces not only the engineering design but also the new fields of software development, networking, applications, organizational issues, and in fact, interdisciplinary programs.

A prevailing principle for schools of IT is that they are more or less interdisciplinary. That means that they will include programs in IT and business; IT and biology; IT and the arts. Another principle is that they have to do with humans. Human factors and human computer interaction are both areas that find their way into these new organizations. A third principle is that they embrace a variety of programs in the IT area, not just computer science or engineering. Clearly, Pace’s School of Computer Science and Information Systems has taken all of these directions throughout its history. For example, we have always embraced a variety of programs in IT. Similarly, in many of our programs we have included human factors. Finally, we offer baccalaureate degrees that require a minor in a different field, and are thereby interdisciplinary. We have recently developed a masters program in nursing informatics with the Lenhard School of Nursing, and another in information systems and accounting with the Lubin School of Business. We have always worked closely with the School of Education and with the Dyson College of Arts and Sciences.

Nevertheless, this new focus on interdisciplinary programs, human computer interaction, and breadth of professional IT education enables us to think more broadly than ever before. As we develop our new masters degree in Internet Technology and pursue connections with our colleagues in other schools in the University, we will expand our reach to include the many aspects of information technology that are emerging in today’s world. Two vehicles for this are the New Media Center, just established at the downtown campus to focus on research and education in the development of all kinds of media online; and also the Hudson Valley Center for Emerging Technologies to focus on research and development in emerging technologies for e-business (see related articles). We are in the opportune position of being closer to the new and emerging schools of IT than many and are thereby well positioned to continue our leadership role in IT education.

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PRUDENTIAL EXECUTIVE
(Continued from page 1)

Susan M. Merritt, dean of the School of Computer Science and Information Systems, then came to the podium. In her remarks, she highlighted recent CSIS developments and achievements and expressed the School’s interest in developing partnerships with the corporate community. She also thanked advisory board members Mark Kay of J.P. Morgan & Co., Incorporated, Catherine Kinney of the New York Stock Exchange and Raoul Perez of UNITTECH Corp. who served as co-chairs of the Sponsorship Committee, for the extraordinary effort they put into making the evening so successful. After thanking everyone in attendance for their interest and support, she introduced Mr. William Friell, the honoree, who spoke of Paving the Road to Technology’s Future to the guests. Upon completion of his remarks, he was presented with a citation and a crystal paperweight from Tiffany & Co. bearing an inscription commemorating the occasion.

The Leadership and Service in Technology Award is presented annually to an individual or company that best exemplifies leadership in the field of technology, innovation in the development and application of technology to serve people, and commitment to community service and education. This is the fifth year that the award has been given.

The Leadership and Service in Technology Award Reception, which is held annually, is the School’s primary fundraiser. The proceeds from this event benefit the CSIS Endowed Scholarship Fund which makes a degree in computing a reality for many deserving students. This year the event generated over $125,000, the highest amount ever raised by the School. Not only did the School exceed its original goal of $120,000, it also did so without benefit of the Dyson Family Challenge Grant which contributed considerably to the total amount raised in previous years. The success of the event is attributed primarily to the hard work of the CSIS Advisory Board as well as to the Sponsorship Committee that includes Frank Monaco, Pace’s CIO, who has been extremely supportive.

We hope to continue to build on this foundation of support that has evolved over the past few years and look forward to an even more successful event in 2001!
INCREASED ENROLLMENTS GENERATE THE HIRING OF ADDITIONAL FULL-TIME FACULTY

by Ken Norz, Assistant Dean and Director, Academic Systems

Consistently strong enrollments over the past few years have given CSIS the ability to hire new faculty members. Three of them have joined departments on the New York City campus and one has joined us in Westchester. I spoke with each of them recently about being the new kids on the block. Here's what they had to say:

Constantine Coutras joins us in the Computer Science Department after a year as a visiting professor at DePaul University in Chicago. He recently earned his Ph.D. in computer science from Illinois Institute of Technology. "Call me Dino," he said when we first met, and so we do. Dino’s hiring is due largely in part to Sofronios Skevoulis, also in the CS Department on the New York City campus, since the two of them are good friends from Chicago. Sofronios reported that when he met with the CSAB evaluators during our recent reaccreditation visit, he told them, "Of course I like it here, I brought my friend here!" Dino’s research area is wireless networks. When asked why he selected Pace, he said, "I heard a lot of good things about the School. I liked the atmosphere I found when I interviewed here. This is a good place to work, I like teaching and will have everything I need for my research. The administration is very helpful." As for Pace students, "they are good students. Some of them are really bright."

Charles “Chuck” Tappert has joined the Computer Science Department in Westchester this fall after spending over 25 years at IBM where he conducted research in speech recognition and pen computing. He holds a Ph.D. in electrical engineering from Cornell University. Chuck is currently teaching in the D.P.S. in computing program and a master’s course in software engineering. "I really like the doctoral program. It allows me to be creative in what I’m teaching." The master’s students he says are sharp too. They want to move up in the organization." When asked about working here, he said, "I like it. I have an office in the Goldstein Center, a modern building, and the people are very friendly." He also added, "I like the fact that Pace has so many campuses. It adds to the diversity."

Cathy Dwyer (below left) has been a very popular CSIS adjunct faculty member since 1996 when she began teaching after completing her M.S. in computer science with a 4.0 average from Pace. This fall she joins us as a lecturer. She is currently investigating local doctoral programs while teaching Java and C++. Cathy also pointed out that she and Jeanine Meyer, Information Systems, are about to sign a contract with Courseinfo to write a book on creating games using Visual Basic. On her switch to full-time teaching, Cathy says that she is now "more in touch with the larger goals of the University, and I am here more for the students. And I get voicemail!!" She has just joined the CIS 101 Task Force, a faculty committee reviewing the introductory computing course required of all undergraduates, a course she has taught many times. She is really excited about it. "My first committee!!" she said. Cathy added, "Pace students are everyone’s model of the American immigrant. They are hardworking students."

Sharing an office with Cathy is Pauline Mosley (above right), another new lecturer. Like Cathy, she is also a CSIS alum. Pauline, who studied on the White Plains campus, earned her M.S. in information systems in 1992. She subsequently earned an M.S. in computer science from City College and then went on to teach at Hostos Community College for 10 years. She is currently enrolled in her second year of our new D.P.S. in computing program. Her primary research interest is learning methodologies for new technologies. Pauline is teaching introductory Java courses this term. "Students here are hardworking. It is a joy. Everyday I love it." As for CSIS as a place to work, she says, "The support is very high here, extremely high." Lastly, she says, "I have a wonderful office mate." Cathy chimed in "Me too!!"

CSIS Students Network with Corporate Representatives

by Louise P. Kleinbaum, Assistant Dean and Director, Academic Systems

On the afternoon of Wednesday, June 7 and prior to the annual Leadership and Service in Technology Award Presentation and Reception planned for later in the day, a special reception was held for CSIS students and representatives of those corporations that provide substantial financial support to the School. This first time event, which was generously underwritten by the Chemists’ Club, was held at the Pace University Club at the Chemists’ Club located in midtown Manhattan.

Twenty-one outstanding students from both the New York City and Westchester campuses were invited to meet and network with representatives from Bell Atlantic, Chase Bank, Microsoft Corp., the New York Stock Exchange and the Prudential Insurance Company of America. Since the invited students expect to enter the job market within the year when they complete their degrees and many corporations are eager to hire strong IT graduates, there was a great deal of animated interaction between the two groups. Among the corporate representatives in attendance was Bill Friel, senior vice president and CIO of Prudential Life, who was being honored by the School at the Leadership and Service in Technology event scheduled for that evening. He literally rolled up his sleeves while lending his advice and expertise to the students. Before departing, many students received cards from the attending representatives and were asked to contact them as graduation neared. Others were asked to submit resumes.

Dean Susan Meritt was on hand to greet everyone and thank the corporations represented at the event for their support and interest in our students. Joan Mark, executive director of cooperative education and career services, described the services provided by her office which include facilitating the hiring of our IT graduates.

Although it is too early to determine the outcome of this event, it appears to have been successful. We intend to sponsor another one next year.
NEW DOCTORAL STUDENTS FETED AT LUNCHEON
Innovative Doctoral Program Begins 2nd Year

by Louise P. Kleinbaum, Assistant Dean and Director, Academic Systems

Nineteen new students enrolled in the Doctor of Professional Studies in Computing were honored at a "kick-off" luncheon held at the Graduate Center in White Plains on Thursday, September 14. CSIS faculty and staff as well as other University administrators who provide support for the program were on hand to greet the newcomers as were President David A. Caputo and Marilyn Jaffe-Ruiz, provost and executive vice president for academic affairs, who offered welcoming remarks.

The luncheon was part of a five day "First Week" orientation program designed to bring the class together to meet each other and the faculty, to familiarize themselves with the Graduate Center, and to prepare for the rigorous studies that lie ahead. Prior to their "First Week," the students participated in an online orientation in order to become comfortable with the software that supports the Internet component of their studies.

This orientation period marked the beginning of the 2nd year of an innovative doctoral program that was launched by the School last year. The D.P.S. is a unique post-master's doctoral degree structured to meet the needs of the practicing IT professional. Unlike traditional doctoral programs that are often narrowly focused, require a full-time commitment and frequently take an inordinate time to complete, the D.P.S. is a part-time program designed to be completed in three to four years. It supports breadth across the computing disciplines and depth in one or more of them through applied research.

Another unique characteristic of the program is that students enter as a class and continue through as a class. It is expected that the majority of students will complete the program together in three years. This is in marked contrast to the traditional doctoral experience that is typically a solitary experience. Students benefit from the synergy that develops from the pooling of their individual expertise and, in the words of one of the 2nd year doctoral students, "I learn as much from my classmates as I do from the professors."

The program which allows students flexibility for business travel and personal commitments and CSIS the ability to recruit students who live at a distance, combines a monthly, on-campus executive residency with supplementary Internet support for communication and research.

D.P.S. doctoral students are required to complete an 18-credit core of interdisciplinary coursework during the first year followed by a 12-credit advanced elective sequence. A dissertation valued at 12 credits completes the program. Another factor that distinguishes this program from other doctoral programs is that the student is required to focus on research from the very beginning in an ongoing six-credit research seminar that spans the first two years of study. By the time the research seminar is completed, the student has decided on a topic and the methodology to be applied.

The Class of 2003 began its second year on September 8th with the advanced elective sequence of special topics courses developed to provide depth in the research areas that the students had expressed interest in pursuing. Beginning the weekend of October 6th, the two classes met up with each other at the Graduate Center and came together to share their experiences at dinner on Friday night.

The Class of 2003 is noted for its diversity. Of the 19 entering students, there are four women and 15 men from six states including Pennsylvania, Virginia and Massachusetts. Nearly half the class is made up of minority members with 7 Afro-Americans, 1 Latino and 1 Asian. Seven students received master's degrees from Pace; 3 from Polytechnic University; and the others from such diverse institutions as Baruch, Bellarmine, Golden Gate University and The New School.

They are employed by a broad range of companies and governmental agencies as follows:

- AT&T (4)
- Cadent Medical
- Computer Associates
- Hyperion Solutions
- IBM
- Lucent Technologies
- Metropolitan Life
- Verizon
- NYC Housing Authority
- Pace University
- Paragon Computer
- Professionals
- Philips Laboratories
- Pricewaterhouse
- Coopers
- Tesseract
- U.S. Navy
- Wildcat Services

The implementation of the Doctor of Professional Studies in Computing continues to be an ongoing challenge for the students, faculty and support staff alike. The fact that there are 39 talented and inspired individuals diligently working towards their doctoral degree in this originally designed format is deeply satisfying and confirms our belief that there is need for reform in the delivery of doctoral education.

Below: The D.P.S. Class of 2003 poses for its first photo at the "kick-off" luncheon.
CSIS TO COLLABORATE WITH MARIST AND SUNY-NEW PALTZ
Hudson Valley Center For Emerging Technologies

by David Sachs, Assistant Dean

The Hudson Valley Center for Emerging Technologies (HV CET) is a collaboration among three academic institutions in the Hudson Valley – Pace University, Marist College, and SUNY New Paltz – to promote economic development in the region. The goal of the Center is to provide a research base in emerging technologies to support existing businesses as they venture into e-business and attract new businesses to the region. The Center will work closely with regional business, local and state government and the economic development community to enhance economic development momentum by creating the right climate for high technology industry. This will be accomplished by:

- Assessing Hudson Valley research and development, and training needs
- Providing information about on-going research and development activities
- Facilitating joint research and development projects among the academic researchers and with industry
- Soliciting funds to support new research and development activities
- Disseminating results of Center research and development activities
- Providing up-to-date information about emerging technologies
- Providing education programs that meet the needs of regional businesses

Assemblywoman Naomi Matsow (c) presented a $250,000 check to representatives from Pace University, Marist College and SUNY-New Paltz to establish the Hudson Valley Center for Emerging Technology.

New York State has provided initial funding for HV CET by awarding a grant of $250,000. Pace University is managing the project, working collaboratively with Marist and SUNY New Paltz. A steering committee for HV CET has been formed; it includes Dr. Susan Merritt (Pace), Dr. Griffin Walling (Marist) and Dr. Stacy Nunes (SUNY New Paltz), along with Dr. David Sachs and Ms. Cindy Rubino from Pace.

Meetings were held during the summer, and an initial advisory board meeting was held on Friday, September 22. In addition, the first faculty forum took place that day; 25 faculty members from the three institutions met to share their research interests and ideas for further discussion.

WESTCHESTER COUNTY NONPROFIT TECHNOLOGY ASSESSMENT AND TRAINING INITIATIVE

by Babette Kronstadt, Director, Technology Center for Education and Community Empowerment

The Technology Center for Education and Community Empowerment received a $25,000 grant from Texaco to work with Westchester County nonprofit agencies to enhance their ability to use computer technology effectively within their organizations.

There are two main parts to this new initiative. The first is a needs assessment designed to determine the level of computerization among Westchester County Nonprofit Agencies and the type and extent of their need for additional assistance in using technology. Over 600 surveys were mailed to nonprofit agencies identified by lists from Texaco, the Westchester Community Foundation, and the Westchester County United Way. Follow-up calls will be made as needed to obtain a picture of current technology training needs. In addition interviews will be conducted with a small group of agencies to obtain a more in-depth view of how they use technology and where further assistance would be useful.

Following the needs assessment, the Technology Center will provide training and consultation to a limited number of non-profit agencies. In addition to enhancing the computer skills of these agencies, it is hoped that this limited program will provide additional information on the agencies’ technology needs and models for meeting these needs. The information from these experiences should also enable the Technology Center to formulate an accurate picture of technology usage in local nonprofit agencies, formulate strategies for increasing effective technology use, and pursue other funding opportunities for working with these agencies.

We also plan to host a meeting for other Westchester County groups that work with nonprofit agencies to brainstorm additional strategies for meeting the technical needs of these agencies.

A check presentation ceremony was held on the 78 North Broadway campus in White Plains on Thursday, October 12. Vice President Robert Oelkers and board members of the Texaco Contributions Committee, representative Texaco employees who are Pace alumni, President David Caputo, Dean Susan Merritt and other Pace guests and officials, select heads of Westchester County Nonprofit Agencies, Westchester County officials and the press were in attendance.
MODULES OF SKILLS ENHANCEMENT: A NEW TRAINING MODEL FOR THE CLOUT PROGRAM

by Charlene Labenda, Coordinator, CLOUT

Each day, students in the CLOUT Program rise bright and early to dress and feed their children, deliver them safely to school or daycare, and travel by train and bus to Pace to prepare for employment in today’s workplace. Their day of study and training is followed by an evening of family responsibilities much like that of their hectic mornings. These women and men take each day at a time, struggling to provide for their families and working toward a better future. Their ultimate goal of employment and self-sufficiency keeps them focused when days are long, classes are tough, and the end is far away.

The continuous success of the CLOUT Program in helping these individuals to achieve their goals has been the driving force in the program’s creative design, development, and expansion. The program’s oldest and strongest supporter, Westchester County’s Department of Social Services (DSS), recognizes this long-standing record and, therefore, continues to approve funding for new and exciting training/employment readiness opportunities for their customers. In addition to renewing the contract for the certificate and degree programs, DSS approved a new training program, Modules of Skills Enhancement, in both the 1999-00 and 2000-01 contracts.

Modules of Skills Enhancement is a training program designed for working individuals who need computer applications and office skills to improve their employment potential. The target population is public assistance recipients who are working and who either have an open case or meet 200% of Poverty Standards. The goal of the training is to prepare the participants for employment in an office setting using computer applications, ultimately resulting in closure of their case and a salary increase. To accommodate the schedules of these working parents, the training modules are offered evenings and Saturdays at the Graduate Center.

Five different modules are available at various points throughout the year, each module being two months long. Each module contains a set of related courses and employment preparation workshops. The program is structured to include six entry points in a year; persons may, therefore, enroll in an individual module or a series of modules. The first module was offered in May 2000 with a group of seven participants. With an average class size of 10 students, CLOUT expects to offer eight modules and serve 80 participants in the 2000-01 academic year.

Both the faculty and the participants in the training program have been enjoying the experience. Linda Hand, Office Technology Educator, describes the students as having an eagerness to absorb as much information as possible in order to enhance their skills and advance on the job. Like the students in CLOUT’s daytime certificate program, these individuals want to make a difference in their lives and the lives of their families. Their dreams for a better future and their desire for success make the long evenings of class and Saturdays in school worthwhile.

LYNNE LARKIN JOINS CLOUT

Expanding Program takes on New Administrator

Lynne Larkin, a Washington University graduate with a Master of Science in Teaching (M.S.T.) from Pace, was named Program Administrator of CLOUT Midtown in June.

In her own words, Lynne tells us how this all came about: “My first job after graduating from Washington University was at The Central Institute for the Deaf in St. Louis, MO as a research assistant. That position led to my next as manager of a consulting firm on hearing loss that was started by the doctor I was working for at the Institute. I find that my experiences from that management position were very similar to my current position as Program Administrator for the CLOUT Program in that I am responsible for handling all aspects of the program. “Since my family is very important to me, I returned to Westchester after a few years to be closer to them. I began my graduate studies at Pace and worked as a graduate assistant in the School of Education. At commencement, I received the award for “Outstanding Graduate of the Year.” My education at Pace University was excellent. The professors modeled the methods of teaching and provided a forum for intellectual and active discussions.

“Upon graduation, I taught mathematics for several years. I then went on to study computer programming and started teaching office applications to senior citizens at BOCES. My experience teaching Microsoft Office and as a manager led to my being hired as Technology Instructor/Coordinator at Pace. I began teaching in both White Plains and New York City where I assisted former CLOUT Director, Dr. Alice Feeley, at the Midtown Center until she left in June, at which time I took on the position of Program Administrator for the midtown program.

“I am very happy to be working with the devoted staff of the CLOUT Program, the Technology Systems Department and the School. The students at the Midtown Center are very dedicated and it is rewarding to hear that their lives have changed for the better because of this program. We are pleased that its growth will enable us to help many more people acquire the education and training needed to advance in today’s technologically oriented economy.”
Assessment works! It is good for us. In fact, the faculty has reached the point where it would seem reckless to allow a program to run along without methodological appraisals, almost like driving down the highway with your eyes closed.
THE PERVERSIVENESS OF THE WEB:
AN INSIDER’S LOOK AT “THE DOT.COM-ING OF SOCIETY”
by Bernice Houle, Assistant Dean and Director, Academic Systems

“The Internet has become the most important innovation of our time. It is poised to revolutionize the way we work, learn and play.” Carl Morales, April 7, 2000

The faculty in the School of Computer Science and Information Systems were honored to welcome Carl Morales, Chief Information Officer, National Consumer Services Group, at The Chase Manhattan Bank as a guest speaker at the Spring 2000 CSIS Faculty Council Meeting. The meeting was held in White Plains on April 7. Mr. Morales’ speech, The ‘Dot.com-ing’ of Society, focused on the dramatic impact that the Internet is having on society, the pervasiveness of the Web, and key challenges that we now face and anticipate facing in the future.

The administration and faculty were given a few eye-opening facts regarding the Internet. For example, according to Mr. Morales, “The Internet reached 50% of the U.S. population in one tenth the time it took for electricity and one seventeenth the time it took for the automobile.” “Online usage is doubling every 90 days,” and “Internet traffic is expected to exceed global voice telephone traffic by 2002.” As a result, the Internet has dramatically affected our lives. It has increased communication and the ability to gather and disseminate information, accelerated globalization, and altered education.

The educational challenges that need to be addressed include maintaining a balance between traditional environments with online environments, meeting the global demands of the “anytime, anywhere, anywhere, anything” phenomenon, and preparing students for the changing workplace. Statistics forecasted by the Gartner Group are also quite startling. For example, “By 2004 more than 60 percent of colleges and universities globally will be offering courses and programs (anything) to students anytime, from anywhere to anywhere.”

According to Mr. Morales, individuals must do the following in order to succeed in the New Economy:

- Adopt to the dot.com speed of innovation
- Be savvy about the Internet and related technologies
- Facilitate and manage change
- Communicate in a variety of media and formats
- Compile, organize, analyze, synthesize information and draw conclusions differently
- Be self-directed learners
- Collaborate and cooperate in teams
- Develop good project management skills

Some of the key challenges that were cited include:

- Balancing “clicks and bricks”
- Privacy Issues
- Security
- Information Overload

Mr. Morales’ provocative talk left us with a great deal to think about.

CSIS FACULTY RECOGNIZE THEIR OWN
Dr. Susan Feather and Dr. Fred Grossman Honored
by Bernice Houle, Assistant Dean and Director, Academic Systems

CSIS faculty members and innovative programs within CSIS are already addressing many of the challenges cited by Carl Morales at the Spring Faculty Council Meeting. Two faculty within the School who are focusing on opportunities and challenges provided by the Internet are Dr. Susan Feather, Technology Systems, and Dr. Fred Grossman, Information Systems. During the Spring Faculty Council Meeting, Drs. Feather and Grossman were honored by their peers for Excellence in Teaching and Excellence in Service, respectively.

One of the courses that Dr. Feather teaches, along with Professor Kitty Daniels also of the TS Department, is Technical Communications, a course specifically developed for the NACTEL program, a fully online Associate in Science in Applied Information Technology that is taught to telecommunications workers nationwide. As part of the course, Dr. Feather and Professor Daniels have students work in teams to create a team-generated document. This is not an easy task in an asynchronous environment. However, Dr. Feather understands the importance of the many tools needed for succeeding in the “new economy” as indicated by Mr. Morales. Her insights and commitment to her profession have earned her the highly valued Excellence in Teaching Award.

Another innovative program offered by the School is the new Doctor of Professional Studies in Computing. This doctoral program provides a new format for doctoral education and has a large online component. Dr. Grossman has earned recognition for Excellence in Service for his leadership role in the development and implementation of the program including recruitment and application review, advisement, and mentoring of the first-year class.

Congratulations to both Dr. Susan Feather and Dr. Fred Grossman!

Top: Dr. Susan Feather holds up her Excellence in Teaching award for all to see. Bottom: Dr. Joseph Bargin (l) congratulates Dr. Fred Grossman (r) after announcing that he was this year’s recipient of the Excellence in Service award.
THE DIGITAL DIVIDE: ISSUES AND CHALLENGES
by Dennis Anderson, Assistant Dean

I recently attended two conferences sponsored by the U.S. Department of Commerce in Washington, D.C. that were convened to initiate a dialogue on how to best narrow the information gap resulting from the "digital divide." The term "digital divide" refers to the widening disparity between the information "haves" and "have nots" caused by access or lack of access to computers and the Internet.

The "digital divide" exists among different populations within countries and among different nations and geographic regions of the world. According to a report issued by the U.S. Commerce Department, there is a growing disparity between different racial groups. For example, Black and Hispanic households are only a third as likely to have some Internet access as White households. This is often income related with more affluent households having greater access than lower income households.

The booming e-economy and new media industry have exacerbated the problem and heightened our awareness of the issues involved. The Clinton administration has placed a high priority on narrowing the gap both at home and abroad. Domestically, the government is working with industry and educational institutions to correct those problems that perpetuate the "digital divide" – lack of universal access, education and training, and affordability. In regard to its impact internationally, President Clinton stated that the Internet has enormous potential for bridging divides in the developing world. At a news briefing, he said that efforts should be made to bring Internet connections and printers to "all the poorest villages" in order to provide education and health services information.

UN Secretary General Kofi Annan has warned about the danger of excluding the poor of the world from technology. Less than 1% of those in South Asia are online even though the region makes up one fifth of the world’s population. Africa, with a population of 739 million people, has only 14 million phone lines – less than in Tokyo or Manhattan. Even if many of these areas were wired, it would not necessarily be of much help because of high rates of illiteracy and lack of basic computer skills. The fundamental issue in the global "digital divide" is not so much about Internet access as about basic necessities such as food, shelter and education.

For its part, the School of CSIS is attempting to narrow the digital divide by educating all undergraduates in basic computer usage, empowering people through the CLOUD, Henry Street Settlement and Bedford Correctional Facility programs, instructing primary and secondary school teachers on how to use computers in the classroom, and addressing the needs of nonprofit organizations in Westchester County.

For additional information on this issue, please refer to the following Websites:
- http://digitaldivide.gov

NANCY TURBE ASSUMES PRESIDENCY OF CSIS ALUMNI ASSOCIATION
by Louise P. Kleinbaum, Assistant Dean and Director, Academic Systems

Nancy Turbe (MS/CS ’88), a managing director at Bear Stearns & Co., Inc., has assumed the presidency of the CSIS Alumni Association. She succeeds Sylvia Friederich (MS/CS ’87) who served as president since the association was formed in the early 90’s. Nancy received a B.A. in economics from Fordham University in 1978. In 1984 she entered Pace’s M.S. in computer science program on the New York City campus as a G’POP (Graduate Professional Opportunities Program) Fellow. The G’POP program, later renamed the Patricia Roberts Harris Fellowship Program, is a highly competitive program sponsored by the U.S. Department of Education to encourage and support minority students and women to pursue graduate studies in fields deemed to be in the national interest. After graduating with distinction, she worked as a programmer at Cornell Medical College and taught computer science at both Pace and Queens College. She then went on to work at Sun Microsystems and later Informix. Today she manages a team of developers and technologists who support Bear Stearns’ Equity Portfolio Trading.

Nancy’s memories of being a graduate student at Pace are fond ones:

"My experience in the Graduate CS program at Pace was extremely rewarding. The professors who taught our courses had a broad range of technical interests. Their professional and academic experiences enhanced the curriculum and opened up a whole new world of career possibilities for me. At Pace, I was introduced to the ‘open systems’ and ‘distributed computing’ paradigms; these concepts have formed the foundation of my subsequent career."

Nancy has been active in alumni affairs over the years. Her most visible role has been in serving on the Leadership and Service in Technology Award and Reception Sponsorship Committee where she helped to solicit corporate contributions for the CSIS Endowed Scholarship Fund. As for her vision for the CSIS Alumni Board:

"It is important for our current and future alumni to have a sense of identity and pride in our Pace CSIS community. During this year I will be working with the Alumni Relations team to get a better sense of how to reach out to that community. Toward that end, we are in the process of planning a seminar event – for Pace Technologists, by Pace Technologists. We hope to schedule this event for the Spring of 2001."

The association is most fortunate to have Nancy at the helm.
As of September 2000, the Office Information Systems department has officially changed its name to Technology Systems (TS). The new name was chosen to better reflect changes in the workplace and the nature of end-user computing.

The Technology Systems department will continue to offer both a Bachelor of Science degree and an Associate in Science degree. The Bachelor’s degree will now be in Technology Systems with an emphasis on designing and managing organizational end-user computing systems. The Associate’s degree will now be in Applied Information Technology with an emphasis on current workplace end-user and Internet technologies. The curriculum will be enhanced to include more emphasis on e-collaboration and Internet technologies but will remain closely matched to that of the Organizational Systems Research Association model curriculum which focuses on advancing research in IT, learning, and performance.

In conjunction with the School of Education, the Technology Systems department will also support a Master’s in Education degree, leading to certification as an Educational Technology Specialist. The department will develop and teach a number of courses dealing with the Internet, the design and use of multimedia tools, and computer hardware and networks. In the future, the department will also support a bachelor’s degree leading to certification as an Educational Technology Specialist.

In addition to its name change, the TS department has undergone changes in its faculty. In February 2000, Professor Ariene Auguste retired from the University after 34 years of service. Ariene joined the department in the fall of 1966 and helped establish the department’s offerings on the Pleasantville campus. Ariene’s enthusiasm for learning, dedication to her students, and love of teaching will be missed by all who had the pleasure of working with her. In September 2000, Dr. Judy Caouette was granted a leave of absence and has relocated temporarily to London, England. She has plans to travel extensively and has already visited Prague. In the future, she will visit India, Portugal, and Asia.

Several new adjunct instructors have recently joined the department. Tony Pupello is the Manager of Technology Projects for the Literacy Assistance Center. He is currently teaching End-User Information Systems: Planning and Design. Michelle Luuk comes to us from Verizon, where she is a Public Relations and Cross Media Specialist specializing in Website design and maintenance. She is currently teaching the Multimedia and Telecommunications Applications course. Yvette Lanza is a Police Officer/Instructor with the New York City Police Department. She teaches the Spreadsheet Applications and Database Applications courses. Jean Denis, Systems Analyst/Programmer with the Division of Information Technologies at Pace University, is teaching the Operating Systems course.

Change is something to which the Technology Systems department has grown accustomed and which it once again embraces.

IN MEMORIAM

Frank LoSacco, Professor Emeritus-in-Residence in Information Systems, died last April after a brief illness. He had been with the School for 16 years and was very well liked by his students. The Frank LoSacco Memorial Scholarship Fund has been established in his memory. Anyone interested in contributing to the fund may do so by sending a check made payable to Pace University with “Frank LoSacco Memorial Scholarship Fund” indicated on the memo portion to Bill Evans, Director, Corporate and Foundation Relations, at One Pace Plaza, New York, NY 10038.

Susan Arsenen, a long-standing member of the CSIS Advisory Board, passed away on July 21 after a long illness. Susan held a number of prominent positions at major corporations over the years. She was senior vice president and CIO of Union Camp until May 1999 when it was bought by International Paper. She had been an active member of the board since the mid-80’s and participated in the D.P.S. in Computing Site Review as a corporate representative.

CONGRATULATIONS!

Children of two members of the support staff in the Dean’s Office graduated from Pace in May. Sue Montanti’s daughter Jaclyn graduated summa cum laude and received a B.B.A. in marketing. She is currently continuing on for an M.B.A. in the Lubin School of Business. Fran O’Gara’s son Brian earned a B.S. in computer science and is pursuing graduate study in education at Iona.

Jessica Kronstadt, daughter of Babette Kronstadt, Director of the Technology Center for Education and Community Empowerment, graduated summa cum laude from Amherst College in Amherst, MA where she was also elected to Phi Beta Kappa. She is currently studying at the Ecole Normale Superieure in Paris under an Amherst fellowship.

Fran Gustavson’s daughter Lisa married Christopher Sales last April. The wedding was held at the Puck Building in New York City.

Eric Kleinbaum, son of Louise Kleinbaum, Assistant Dean and Director, Academic Systems, received an M.D. from Jefferson Medical College in June. He is currently a first year resident in internal medicine at the Baylor College of Medicine in Houston, TX.

Charlene Labenda was promoted to the position of Coordinator for the CLOUT program effective June 1.
by Dr. Michael L. Gargano, Computer Science

Here is a selection of seven unique books on the history of six very special numbers (e, pi, i, phi, psi, and zero) that play a central role in mathematics, computer science, and related areas. I think you will find them engaging and informative reading.

One interesting formula that interrelates these constants is $e^{pi^2} + \phi^*psi = 0$. The historical stories of these numbers reveal truths not only about the nature of mathematics but also about the evolution of human thought.

**e - The Story of a Number**
Eli Maor, Princeton University Press, 1994

The first book about the history of e begins with John Napier who invented logarithms and Oughtred who invented the slide rule. It then takes the reader through the dispute of Newton with Leibniz over the invention of calculus, to Jacob Bernoulli’s logarithmic spiral (Spira Mirabilis) and to Hermite’s proof that e is a transcendental number. This special number touches on many different areas of mathematics from compound interest to hanging chains, from natural structures to the growth rate of the Internet. This is a fascinating and enjoyable book.

**The History of pi (pi)**
Petr Beckmann, Golem Press, 1971

This book is a classic and very readable account of pi. As early as 2000 BC, approximations to pi were known by the Babylonians and Egyptians. The story then leads us from the early Greeks and Euclid, Archimedes of Syracuse, and the reawakening of mathematics in the Renaissance, to the influence of famous mathematicians including Newton, Euler, Gauss, Lagrange, Laplace, and finally Lindemann’s proof that pi is transcendental.

**The Joy of Pi**
David Blatner, Walker Publishing Company, 1997

This second book about pi explores many curious facts and has a very humorous presentation. There are short historical stories and humorous snippets and factoids about pi that have fascinated people for many millennia.

**An Imaginary Tale - The Story of i**

This selection is another fascinating tale of the most misunderstood of all numbers, the square root of minus one. For many years even mathematicians were baffled by imaginary numbers. But in modern times, amazingly, imaginary numbers are everywhere in math and science.

**The Nothing that is Zero - A Natural History of Zero**
Robert Kaplan, Oxford University Press, 1999

**Signifying Nothing - The Semiotics of Zero**
Brian Rotman, Stanford University Press, 1987

The fifth and sixth books are Seinfieldesque since they concern a number about nothing (that is, zero). They reveal remarkable historical facts about the elegant idea that is 0 and give a delightful analysis of the sign that is intimately connected to nothing.

**The Divine Proportion - A Study in Mathematical Beauty**
H.E. Huntley, Dover Publications, 1970

And lastly, this book explores the various relationships between aesthetics and geometry. The relationship of the Fibonacci number sequence and the divine proportion is also discussed. Time and again, the golden ratio (a.k.a., the divine proportion) phi and its inverse psi, magically appear as this story meanders through the history of mathematics.

I hope you can find the time to read some of these interesting biographies of important numbers. If you come across any other books that you think our faculty or students might enjoy, please let us know.
MAY 2000 AWARD CEREMONY: CELEBRATING STUDENT EXCELLENCE

by Bernice Houle, Assistant Dean and Director, Academic Systems

When one thinks about the month of May, many images come to mind: the blooming of spring flowers, the planting of vegetable gardens, and pending summer vacations to name a few. For those in Academe, May is also a time to celebrate student achievements, and in CSIS, that is exactly what we did.

On Tuesday, May 16, and Thursday, May 18, in Pleasantville and New York, respectively, CSIS sponsored school-wide award ceremonies for graduating students who have earned academic honors. All undergraduates who received Latin honors by earning a minimum Q.P.A. of 3.5, and a select group of stellar undergraduate and graduate students were honored by Pace administration, CSIS administration and faculty, students, family, and friends.

The highest academic award given by CSIS to a graduate student is the Outstanding Student of the Year. This award, given to a graduate student for academic excellence, was given to Sumanas “Hari” Hankrishna (Westchester) and Wei-Kai Hsu (New York). The Scholastic Achievement Award, given to the student excelling in scholarship effectiveness in class discussions, research and general performance in a baccalaureate degree program, was given to Elizabeth Roy, a B.S. in computer science major who attained a near perfect 3.97 Q.P.A. in Westchester and Michael Kloster and Vyacheslav Betser in New York. At that time, Vyacheslav was eager to begin working at Paine Webber as a programmer in the Operations Services department.

The Academic Excellence Award, presented to the student in an associate degree program excelling in scholarship and general performance, was given to Ljulja Kinaj (Westchester), a student who decided to return to school to improve her life and that of her three children who range in age from 5 to 12. She is currently working full-time in a local school district and continuing to take classes toward a bachelor’s degree.

The Alumni/Ae Awards, presented to a graduating student who has displayed leadership qualities and academic accomplishments while exhibiting concern for fellow classmates and other members of the Pace University community went to Thomas Sillery, a graduate student, and Christopher J. Carucci, an undergraduate in Westchester and Gregory Hancock, a graduate student, and Brian Hannabery and Michael Kloster, two undergraduate students in New York. Chris is currently a Network Administrator and Testing Staff Member at Macelabs in Pleasantville.

Yasar M. Mansoor and Yi Yang, two graduate students, and Jennifer E. Hoffman, an undergraduate in Westchester, earned the Student Service Award, given for outstanding service to the School of Computer Science and Information Systems. Yasar was a graduate assistant in the Computer Science department where he assisted faculty with their research, tutored students in Java and C++ and supported new Internet Technology courses by setting up, configuring, and maintaining the NT and UNIX servers. Jennifer, who is very much an ambassador for the School, held co-op internships at Avon Products and Arnolderman & Co. and is currently an associate programmer at Salomon Smith Barney in New York City.

Other individuals were recognized by the faculty of the three departments – CS, IS and OIS – for outstanding scholastic achievement. Computer Science Awards were presented to Srilakshmi Kudraravalli and Xue-mei Xie, both graduate students and Alison Palazzo and Jeannine Signorelli, undergraduate students, all of whom attended classes in Westchester and to Douglas Slater and Daria Bidnyk in New York. Susan McGee, a graduate student, and Fenil Dedia and Joseph Tursone, undergraduate students, along with Charles Brown Jr., graduate, and Leon Kushir, undergraduate, received the Information Systems awards in Westchester and New York, respectively. The Office Information Systems awards were given to Catherine Benke and Arina Shutulberg who earned B.S. degrees and Darleen Gardner and Diane Cherry who earned associate degrees.

Interdepartmental awards, such as the Telecommunications Award for graduate students and the Professional Computer Studies Award for undergraduate students, were given to Aaron Spencer (Westchester) and Ivette Lan (New York) and Serafino “Sonny” Carri (Westchester) and Lowell Wilson (New York), respectively. In Westchester, Sarah Rand received the Daniel Rosich Award for academic excellence and Jue Wang and Regent Lam both received honorable mention in New York.

The administration and faculty in the School of Computer Science and Information Systems would like to congratulate all of the CSIS graduates but especially the Y2K award recipients and their families.

Baah and Yang Chosen as Gates Millennium Scholars

by Shalei Simms, Academic Advisor

Two of CSIS’s finest students, George Baah and Lok-Man “Cecilia” Yang, were chosen as Gates Millennium Scholars for the program’s inaugural year. Bill Gates, founder of Microsoft, and his wife Melinda have endowed a scholarship for outstanding minority students who have applied or are currently enrolled in colleges and universities throughout the United States. The Scholars program is administered by the United Negro College fund and their partners, and is aimed towards high achieving individuals from diverse backgrounds who wish to pursue their academic careers in disciplines where minorities are underrepresented.

Although it comes as no surprise to CSIS, Cecilia, a BS/CS major with a QPA of 3.6, had this to say about this honor: “I was very surprised I received the scholarship because all high school and college students were eligible.” When George, also a BS/CS student with a QPA of 3.8, was asked how he felt about being named a Gates Scholar, he just responded with that familiar smile. “I am really excited about it and I thank God for it. It has removed the burden of the loans I was receiving.”

CSIS also congratulates Maxwell Porras (BS/IS), Oneida Garcia (BS/TS) and Lidice Hernandez (BS/IS), recipients of the National Hispanic Scholarship sponsored by the National Hispanic Business Group. This award is given to outstanding Latino students to assist them in pursuit of their undergraduate degrees. All three students are quite well known in this department and are deserving of this special recognition.
PROFESSIONAL ACTIVITIES AND ACCOMPLISHMENTS

Dennis Anderson, Assistant Dean, served as a reviewer of CLEP exams in information systems for the Educational Testing Service.

Paul Benjamin, Computer Science, succeeded Carol Wolf as Chair of Computer Science in New York this fall. Carol chaired the department for 12 years.

Joseph Bergin, Computer Science, Jeannine Meyer, Information Systems, and Stuart Varden, Information Systems, attended the Innovation and Technology in Computer Science Conference sponsored by the Association of Computing Machinery and held in Helsinki, Finland. Dr. Bergin led a working group on Non-Programming Resources for an Introduction to Computer Science with Myles McNally from Alma College. Drs. Meyer and Varden also led a working group in “Dimensions of Distance Learning.” Working Group Reports from these sessions will be published in the ACM/SIGCSE Bulletin.


Mary Courtney, Computer Science, was named to the 2000 Who’s Who Among American Teachers as well as to the Cardinal Spellman Hall School Athletic Hall of Fame.

In July, she and Allen Stix, Computer Science, developed a solution in Java to the Complemented Domination problem written by Michael Gargano, et al. which was presented at the Discrete Mathematics and Theoretical Computer Science (DIMACS) Conference held at Rutgers University. In October, they conducted a workshop on Moving from C++ to Java at the Sixteenth Annual Eastern Small College Conference held at Scranton University.

Sam Epelbaum, Technology Systems, attended the OPNET-2000 conference held in Washington, D.C.

Dietrich Fischer, Computer Science, attended the “State of the World Forum 2000” convened by Mikhail Gorbachev when Gorbachev was in New York City for the U.N.’s Fiftieth Anniversary Celebration in September. Earlier in the year, he gave the keynote address on “A Systematic Approach to Global Problem Solving” at the Conference on Higher Education for Peace in Tromsoe, Norway. He also lectured on “Warfare and Welfare: The Study of Economy, War and Peace” at Erasmus University in Rotterdam on May 18. He taught an intensive course on “Peaceful Transformation of Group Conflicts” for teachers and social workers in Bern, Switzerland from June 7-9 and a course on “Nonmilitary Aspects of Security” in Geneva, Switzerland from June 19-23. More recently, he presented “Towards a Comprehensive and Proactive Security Policy” at the Consultation on NATO Nuclear Policy, National Missile Defense, and Alternative Security Arrangements in Ottawa, Canada.

Michael Gargano, Computer Science, presented “Graph Theory and its Applications to Problems of Society” at the DIMACS Center located on the campus of Rutgers University in July.


Francis Marchese, Computer Science, chaired a session on Animation and Special Effects at SIGGRAPH 2000 held in New Orleans, LA. He was also named Chief Scientist of the new New Media Center established by the School.

Susan Merritt, CSIS Dean, participated in a workshop in Best Practices for Recruiting Women in Computer Science Research sponsored by the National Science Foundation and Computing Research Association. The workshop was held in San Francisco, CA. She was also invited to participate in the first Annual Summit of Deans of Schools with an IT focus at the bi-annual meeting of the Computing Research Association held in Snowbird, Utah. Additionally, she made a presentation on CSIS’ new Doctor of Professional Studies in Computing at the panel on IT, Informatics and Computer Science at Snowbird.

Jennifer Thomas, Information Systems, attended a National Science Foundation Grant Preparation workshop held in Washington, D.C. in April.

Andrea Taylor, Information Systems, received her M.S. in information systems in May. She resigned as Office Manager for CSIS in New York City and is currently teaching as an adjunct for both the Information Systems and Technology Systems departments. Andrea would like to pursue a career in teaching and plans to continue on for a doctorate.

Stuart Varden, Information Systems, is chairing ISEC 2000, the annual Information Systems Education Conference to be held in Philadelphia, PA from November 9-12. The conference which is the largest, continuously run conference for IS education is sponsored by EDSIG, the education special interest group of the Association of Information Technology Professionals. Many CSIS faculty members will be presenting at the conference. Dean Susan Merritt will be the luncheon speaker and David Sachs, assistant dean, will be a featured speaker.

Spring 2000 Faculty Research Day featured Michael Gargano, Computer Science, who spoke on “Complement Domination and Evolving Reliability Networks Using GAs”; Johnson Thomas, Information Systems, who presented “Users, Multimedia and Networks: Bridging the Gap”; and Linda Jo Calloway, Information Systems, who concluded with “Discovering the Lay of the Land: Helping Masters in Information Systems Candidates Find, Explore and Develop Research Topics.” The symposium was held at the Graduate Center in May.
CSIS WELCOMES NEWCOMERS

This fall’s unusually long list of new faculty, administrative staff, and student support staff reflects the extraordinary growth that CSIS has undergone in the past year. We are pleased to welcome the following newcomers:

**Full-time Faculty**

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<tr>
<td>Constantine Coutras</td>
<td>CS</td>
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<tr>
<td>Cathy Dwyer</td>
<td>CS &amp; IS</td>
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<td>Pauline Mosley</td>
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**Adjunct Faculty**

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<td>Jeffrey Bernhard</td>
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<td>Laura Bunkley</td>
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**Student Aides**

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**Graduate Assistants**

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<td>Bill Bernis</td>
<td>Desktop Support Specialist</td>
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**NEW MEDIA CENTER ESTABLISHED**

Before retiring, President Patricia Ewers successfully secured a major seed gift of $250,000 for the creation of a New Media Center. Faculty and others involved with the Center will work collaboratively with students and prepare them for participation in the new media industry. This is particularly exciting in the context of the extraordinary growth of Silicon Alley in New York City and the creation of thousands of jobs in new media. Frank Marchese, Computer Science, has agreed to serve as Chief Scientist. Dennis Anderson, Technology Systems, will collaborate with Frank in the administration of the Center.
BIBLIOGRAPHY
Journal Articles, Proceedings, Electronic Publications and Technical Reports

Dennis Anderson

Paul Benjamin

Joseph Bergin
"Fourteen Pedagogical Patterns," Proceedings of EuroPLOP 2000 (Fall 2000).

"Introducing Objects with Karel J. Robot," ECOOP 2000 Workshop Reader (Fall 2000).

Joseph Bergin, M. McNally, M. Goldweber, C. Kelemen, T. Naps, C. Power and S. Hartley
"Non-Programming Resources for an Introduction to Computer Science," SIGCSE Conference Addendum and Digital Library (Fall 2000).

Linda Jo Calloway

Judy Cauette and Susan R. Feather

Paul Dantzig, A. Iyengar, J. Challenger and D. Dias
"High-Performance Web Site Design Techniques," IEEE Internet Computing (March-April 2000).


Dietrich Fischer

Michael L. Gargano and W. Edelson


Namchul Shin

Sotirios Skouvolis


Nanda Surendra

ELECTRONIC PUBLICATIONS

Jeanine Meyer and M. Driver

Jeanine Meyer, A. Meyer and D. Meyer

Jennifer D. E. Thomas

CSIS TECHNICAL REPORTS

Joseph A. Bergin
"Coding at the Lowest Level: Coding Patterns for Java Beginners," Technical Report, No. 156 (October 2000)

Mary F. Courtney and Allen Stix

Ronald I. Frank
"Order Oh (O(1)) Notation and Meaning (with Pictures)," Technical Report, No. 151 (May 2000).

Michael L. Gargano and W. Edelson

Michael R. Gargano
"The Reversible Random f-Graph Process R(f), f (1, 4 and Some Variations)," Technical Report, No. 150 (April 2000).

Anthony Joseph and A. Shanja

Sarah N. Rand

Carol E. Wolf
## UPCOMING EVENTS

<table>
<thead>
<tr>
<th>NOVEMBER</th>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>6</td>
<td></td>
<td>Deans’ Reception</td>
<td></td>
<td>New York City</td>
</tr>
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<td>16</td>
<td></td>
<td>Lubin/CSIS E-Commerce Breakfast Series</td>
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<td>Graduate Center</td>
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<td>9-12</td>
<td></td>
<td>ISECON 2000 – The Conference for Information Systems Educators</td>
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<td>Adam’s Mark Hotel Philadelphia, PA</td>
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<td>30</td>
<td></td>
<td>Lubin/CSIS E-Commerce Breakfast Series</td>
<td></td>
<td>Graduate Center</td>
</tr>
<tr>
<td>DECEMBER</td>
<td>1</td>
<td>CSIS Faculty Council Meeting</td>
<td></td>
<td>Graduate Center</td>
</tr>
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<td>12</td>
<td></td>
<td>CSIS Faculty Research Day</td>
<td></td>
<td>Midtown Center</td>
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<tr>
<td>JANUARY</td>
<td>10</td>
<td>CSIS Advisory Board Meeting</td>
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<td>Videoconference Graduate Center and Midtown Center</td>
</tr>
<tr>
<td>APRIL</td>
<td>4</td>
<td>CSIS Advisory Board Meeting</td>
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<td>Videoconference Graduate Center and Midtown Center</td>
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## ON A LIGHTER NOTE ...

*The following story was circulated by Jingkun Hu, a student in the Doctor of Professional Studies in Computing program:*

At a recent computer expo (COMDEX), Bill Gates reportedly compared the computer industry to the auto industry, stating: “If GM had kept up with technology like the computer industry has, we would all be driving twenty-five dollar cars that got 1,000 miles to the gallon. In response to Gates’ comments, General Motors issued a press release written by Mr. Welch himself, which reads as follows:

1. For no reason whatsoever, your car would crash twice a day.
2. Every time they repainted the lines on the road, you would have to buy a new car.
3. Only one person at a time could use the car, unless you bought “Car98” or “CarNT.” But then, you would have to buy more seats.
4. Macintosh would make a car that was powered by the sun, reliable, five times as fast and twice as easy to drive, but which would only run on five percent of the roads.
5. The airbag system would say, “Are you sure?” before going off.
6. Occasionally, for no reason, the car would lock you out and refuse to let you in until you simultaneously lifted the door handle, turned the key, and grabbed hold of the radio antenna.
7. Occasionally, executing a maneuver such as a left turn would cause your car to shut down and refuse to restart, in which case you would have to reinstall the engine.
8. The oil, water temperature and alternator warning lights would be replaced by a single “general car fault” warning light.
9. Every time GM produced a new model car, buyers would have to learn how to drive all over again, because none of the controls would operate in the same manner as the old car.
10. You’d press the “start” button to shut off the engine.