Overview

In addition to the major events hosted by Seidenberg each year including the Leadership and Service in Technology Award Reception, the FIRST Tech Challenge regional robotics competition and the Michael L. Gargano Student/Faculty Research Day, the University officially announced the launching of the Seidenberg Cyber Security Institute dedicated to fighting cyber-crime and promoting data protection.

The Seidenberg School also was pleased to announce new leadership this year. We thank Dr. Constance Knapp for her years as Interim Dean of the School.

In July, 2012, Pace University President Stephen J. Friedman announced that Amar Gupta, Ph.D., the Thomas R. Brown Endowed Professor of Management and Technology at the University of Arizona and a visiting scientist at MIT, was appointed dean of the Seidenberg School of Computer Science and Information Systems, effective August 15th.

The Westchester County Business Journal, Pleasantville Daily Voice and India Abroad ran articles announcing the arrival of Amar Gupta, the new dean.

Pace Press
Special Events

Pace University’s 17th annual Leadership and Service in Technology Award Reception honored Verizon CIO Dr. Judith Spitz.

Judith Spitz, Ph.D., Chief Information Officer and Senior Vice President for IT Strategy and Planning at Verizon is responsible for establishing and driving enterprise-wide standards for IT computing infrastructure and systems architecture, for IT portfolio management, talent management, process and technology transformation, IT governance and compliance, and for integration with corporate strategy.

The event, held at PricewaterhouseCoopers in Manhattan, included keynote speaker Soledad O’Brien, the anchor for CNN morning show “Starting Point with Soledad O’Brien” and special correspondent for CNN/U.S, who discussed the importance of science, technology, engineering and mathematics (STEM) education.

In March 2012, Dr. Christelle Scharff brought RIM’s first campus hackathon on HTML5/WebWorks as part of RIM’s series of Future Developer Days aiming to generate interest in development among college students, and cultivate young talent to become the next-generation of mobile developers. Through this program, RIM utilizes campus developer hackathon competitions to create new communities of young developers. During the event, students developed their own apps. Jeremy Pease ’12, Daniel Rings, Zahid Mahir and Keith McPherson ’13 won trips to RIM's Developer Conference in Orlando along with smartphones to continue improving their apps.

The Seidenberg School hosted the third annual Hudson Valley FIRST Tech Challenge (FTC) Robotics Regional Championship Tournament for high school students on the Pleasantville campus. Thirty-one teams from the lower Hudson Valley and beyond participated in “Bowled Over!,” an exciting and inspiring event.
On February 29, 2012, thirty-two students were inducted into the New York Delta Chapter of Upsilon Pi Epsilon (UPE), the first and only International honor society for the computing and information disciplines.


In September 2011, Jonathan Hill and Wilfredo Peña initiated an active collaboration with Aalto University’s Product Development Product (PDP) course in Helsinki, Finland where students from universities all around the world including China, India, Germany, and New Zealand work on projects for established national companies like Panasonic, ABB, Sony, Rovio, and Audi among others.
Seidenberg Student-Faculty Research Pairs

This year, under the leadership of Harriet Feldman, Interim Provost and Vice President for Academic Affairs, and Sue Maxam, University Director of Student Success, an initiative to promote collaborative research excellence between faculty and students at the undergraduate level was launched. Outstanding faculty-student pairs from across numerous disciplines worked diligently during the past academic year on a wide variety of projects. The campus-based showcases provided a forum for students to present their research findings to a broader audience and to be recognized for their work.

Seidenberg student-faculty research pairs placed first on both campuses in the first-ever Undergraduate Student-Faculty Research Showcases. In New York, Meghan Kenny (BA/Psychology ’14) and Professor Christelle Scharff took first place for their collaboration on how mobile technology can be used to raise awareness around the world in regard to destructive environmental practices and to promoting sustainability.

On the Pleasantville campus, Marc Kowtko (BS/IT ’15) and Professor Jean Coppola won for their work in open source assistive technology for older adults and people with disabilities.

Julie Gill (BS/CS ’12) and Jeremy Pease (BS/CS ’12) successfully presented their honors thesis with Dr. Jonathan Hill, thesis mentor.
Student Research

Meghan Kenny presented “Mobile Solutions for a Greener Future” at the PIERS Student Conference: Encountering Nature Through University Culture held at Pace in March. In late April, she also presented “Mobile Applications for a Sustainable Future: How Are Mobile Developers Contributing to Solving the Problems?” at the 17th Annual Conference of the Northeast Region of the Consortium for Computing Sciences in Colleges (NCCSC) held in Hamden, Connecticut.

Marc Kowtko who, as a freshman, presented “Securing our Nation and Protecting Privacy” at the IEEE – Long Island Systems Applications and Technology Conference last year has been invited back to present his paper on assistive technology at this year’s event. As a winner, the Office of Student Success will support his attendance.

In addition, two Seidenberg Scholars, Julie Gill (BS/CS ’12) and Brent McDonald (BS/CS ’12) pursued inter-disciplinary research projects working with Professor Jillian McDonald (Fine Arts) and Professor Nancy Reagin (History), respectively.

Students

In May 2012, the second class of Seidenberg Scholars who began their education at Pace in Fall 2008, graduated and went out into the world: Julie Gill, Marcelo Zimmer, Marius Agica, Brent McDonald, Jeremy Pease.

Valerie Cayo (BS/CS ’15) and Julie Gill (BS/CS ’12), both Seidenberg Scholars, attended this year’s Grace Hopper Celebration of Women in Computing conference titled What If . . .? along with Constance Knapp, interim dean. The celebration, which took place in Portland, Oregon in early November, highlighted the accomplishments of women in technology.

In Fall 2011, as the Seidenberg Scholars Program entered its 5th year the school welcomed Brooke Ribelin from Linwood, NC; Michael Cornell from Fishkill, NY; Julie Gauthier from Amston, CT; Cayman Mitchell from Rowlett, TX; and Wayne Williams from Brooklyn, NYs. Brooke, Michael and Julie all became familiar with the Seidenberg School’s programs and its supportive community as well as life in the “Big Apple” while participating in the 2010 Seidenberg Scholar Summer Experience prior to entering their senior year of high school.
Students in the News

The New York Times

The name of Marius Agica, a senior majoring in both computer science and economics, appeared in The New York Times’ bridge column on September 7, 2011. Marius, a native of Romania, plays bridge competitively for his home country. Over the summer, he and his partner, Radu Nistor, placed third in both the Teams and Pairs events at the World Youth Congress held in Croatia.

The Daily Cortlandt: Lego Robots Teach Math in Croton Mentoring Program.

Students from the Seidenberg School of Computer Science and Information Systems were featured in an article in The Daily Cortlandt. (Left: Pierre Van Cortlandt students in the Croton robotics program. Photo credit: Courtesy of the Croton-Harmon School District).

The Pulse

Pace students Peter Franceschini ’15 and John Robb ’15 placed fourth at the Berkeley Mobile International Collaborative (BMIC) University Mobile Challenge in Barcelona, Spain for their mobile app CANDOO and have been invited to compete at the Mobile Health Challenge in South Africa. The journey began when Peter was on the winning team in the Pace Mobile Competition.
Six outstanding undergraduates – Michael D’Angelo, Marcus Hernandez, Matthew Kendris, Christopher White, Christopher Holowiak, and Allison Llewelyn were awarded National Science Foundation (NSF) scholarships to prepare for careers in the evolving field of cyber security. The scholarships were made available for the second time this year as the result of Professor Li-Chiou Chen obtaining funding through the NSF’s Scholarship-for-Service program.

DoD Information Assurance Scholarship Program

The U.S. Department of Defense (DoD) provides full scholarships for students, civilians, and non-active-duty military personnel who pursue fields of study related to information assurance.

Beginning fall 2011, John Vincent Monaco, continued his studies towards both a B.S. in Computer Science and a B.S. in Mathematics as one of 18 students nationwide to receive this coveted full scholarship from the U.S. Department of Defense’s prestigious Information Assurance Scholarship Program (IASP). Max Wagner and Christopher Kibble also were awarded scholarships this year.

Corporate students

Fourteen IBM India employees are pursuing an M.S. in Computer Science under a newly formed partnership between the University and the corporation. The students, who are scattered all over India, take classes online along with their counterparts in the U.S. and are expected to complete their degrees in five semesters.
Faculty

After 22 years at Pace, Professor Joseph Bergin, Professor of Computer Science, retired at the end of the 2011 summer. Dr. Bergin stated, “I’ve had an ideal career at Pace, being paid to do what I love – to think, to write, to share ideas with students and colleagues.”

Two of the 10 Best Paper Awards given out at the recent Information Systems Education Conference (ISECON) went to Seidenberg School faculty – Professor James Lawler and Professor Anthony Joseph for their research in cloud computing and Professor John Molluzzo and Vijal Doshi (MS/IS) for their paper on social networking.

Professor Richard “Rick” Kline is the 2012 recipient of the Pace University Bronze Medal Jefferson Award for outstanding community service. Through his teaching of Problem Solving using LEGO Robotics, his extensive involvement with the robotics programs sponsored by the FIRST organization, and his mentoring of participants in the Seidenberg Summer Experience, among many other robotics-related activities, he has excelled in fostering a strong sense of fun and excitement among young people in the exploration of science and technology.

Co-founded by Jacqueline Kennedy Onassis, U.S. Senator Robert Taft, Jr., and Sam Beard, the Jefferson Awards began in 1972 as a Nobel Prize for public service. Today, their primary purpose is to serve as a “Call to Action for Volunteers” in local communities. The Jefferson Awards are a prestigious local and national recognition system honoring community and public service in America. Former Seidenberg recipients of this prestigious award included James Lawler (2009-10) and Jean Coppola (2008-09)

Professor Pauline Mosley was recently honored by the YWCA in White Plains at their 4th Annual “In the Company of Women” event on May 11, 2012 with the conferral of the Woman in Technology Award. The award was given in recognition of her work with STEM Robotics and Westchester K-12 schools.
Professor James Lawler received his fourth consecutive community service grant from the AHRC New York City – Education Services organization. This grant is for “Catching a Dream,” a program in which Pace University students mentor high school students with developmental and intellectual disabilities at the AHRC New York City Middle/High School in Brooklyn, New York.

A recent review of Professor Jean Coppola’s Gerontechnology Program by an International Data Group (IDG) panel has resulted in Pace being named a 2012 Computerworld Honors Laureate. This honor recognizes organizations and individuals that have developed innovative applications of information technology to promote positive social, economic and educational change. Computerworld also honored Jean Coppola at the Global Information Technology Awards for using information technology to benefit society.

**Professional Development & Faculty Collaborations**

Pace University is an active member of the Faculty Resource Network (FRN), at New York University, an award-winning, nationally-recognized faculty development initiative whose mission is to improve the quality of teaching and learning at its member and affiliate institutions by providing opportunities for faculty development and cross-institutional collaboration. Seidenberg faculty members Dr. Jean Coppola and Dr. Sotiris Skevoulis attended the FRN event the 2011 National Symposium: "Emerging Pedagogies for the New Millennium" on November 18th and 19th in San Juan, Puerto Rico. Dr. Jean Coppola was a 2012 Summer Scholar-in-Residence, a FRN program that allows Network faculty to come to New York University during the month of June to engage in research, develop curricula, and/or produce manuscripts for publication.

Seidenberg Institute for Computing Innovation (SICI), founded by Professors Lixin Tao and Li-Chiou Chen, is a newly established faculty development organization.

At the request of the Seidenberg Institute for Computing Innovation (SICI), Professor Darren Hayes organized a day-long workshop to teach practical skills in the burgeoning field of computer forensics to Pace faculty and students as well as invited faculty from other institutions.
Faculty Grants

Grant activity over the past year included:

**Pace University (May 2012)**
Project: *AHRC/NYC in support of the Catching a Dream -summer program*
Award: $3500
PI(s): James Lawler

**Pace University (September 2012)**
Project: *AHRC/NYC in support of the Catching a Dream -fall program*
Award: $3200
PI(s): James Lawler

**Pace University (January 2012)**
Project: *IBM, Faculty Innovation Award, A Global Perspective on Mobile Innovations for Smarter Energy*
Award: $10,000
PI(s): Christelle Scharff

**Verizon Foundation/Thinkfinity (January 2012)**
Project: *Enhancing the Interdisciplinary Curriculum in Cybersecurity by Engaging High-Impact Educational Practices*
Award: $10,000
PI(s): Li-Chiou Chen and Andreea Cotoranu

**Verizon Foundation/Thinkfinity (January 2012)**
Project: *Integrating the iPad into the Educational Technology Curriculum and Community: Facilitating Accessibility Awareness and Experimental Learning*
Award: $9,964
PI(s): Jean Coppola, Mark Surabian, and Sandra Flank

**Verizon Foundation/Thinkfinity (January 2012)**
Project: *Digital Imperatives in Marketing: The Integration of Communications and Technology to Target Consumers While Protecting Privacy*
Award: $12,900
PI(s): Catherine Dwyer and Randi Priluck

**Verizon Foundation/Thinkfinity (January 2012)**
Project: *Integrating Technology, Field Experience, and Collaboration in an Undergraduate Biology Research Course*
Award: $10,950
PI(s): Daniel Farkas and Melissa Grigione

**Verizon Foundation/Thinkfinity (January 2012)**
Project: *Business Microsimulations*
Award: $6500
PI(s): Bernice Houle and Kathryn Winsted
Verizon Foundation/Thinkfinity (January 2012)
Project: Film Studio Technology for Computer Science High School Students with Developmental and Intellectual Disabilities
Award: $9,916
PI(s): James Lawler

Verizon Foundation/Thinkfinity (January 2012)
Project: A Three Dimensional Visualization and Projection Workbench for the Pace HPC Initiative
Award: $14,449
PI(s): Francis Marchese and Daniel Strahs

Project: A Web Application for Financial Trading Simulation
Award: $5,000
PI(s): Li-Chiou Chen, Padma Kadiyala, and Lixin Tao

Verizon Foundation/Thinkfinity (January 2011)
Project: A Web Application for Financial Trading Simulation
Award: $10,000
PI(s): Li-Chiou Chen, Lixin Tao, and Padma Kadiyala

Verizon Foundation/Thinkfinity (September 2011)
Project: Film Studio Technology for Computer Science High School Students with Developmental and Intellectual Disabilities
Award: $9,916
PI(s): James Lawler

Department of Defense/National Security Agency (2011)
Project(s): Information Assurance Scholarship Program
Expanding the Outreach: Mobile Device Forensics
Award: $113,708
PI(s): Narayan Murthy, Andreea Cotoranu, and Darren Hayes

Intellectual Contributions


Hayes, D. (2011, September 5). War has been declared in mobile device industry [CD/web]. Westchester County Business Journal


Alumni Development & Alumni Relations Activities

Nearly 250 people, including many alumni, came together on June 21, 2012 to honor Judith Spitz, Chief Information Officer, Senior Vice President, IT Strategy and Planning Verizon at this year’s Leadership and Service in Technology Award Reception. The event, held at PricewaterhouseCoopers headquarters in Midtown, generated funds for student scholarships and select scholarly initiatives. CNN reporter Soledad O’Brien was the keynote speaker. Seidenberg Advisory Board members Steven Caporale (BS/CS ‘86) and Larry Perlstein (BBA ‘80, MBA/IS ‘93), and Howard Medow served as co-chairs.

IT Professor Dr. Connie Knapp and Development Director Pam Yosh traveled to Washington DC to meet several area alumni and update them on Seidenberg initiatives and opportunities to become involved. As a result, some of the alumni visited made personal contributions in support of the school’s efforts.

In January, a number of Seidenberg undergraduate students attended a private tour and lunch at the Downtown offices of DogPatch, a tech start-up incubator space.

Pace alumnus and AOL Social Media Director Matthew Knell (BS/CS ’00) was named Seidenberg’s first Tech Mentor in Residence.
The Seidenberg school invited alumni and community leaders to "Tech Talks" featuring Pace alumni and faculty:

*Power of Social Media in Politics* was moderated by **Becky Livingston** (MS/IS ’05) and featured Pace University faculty: **Dr. Cathy Dwyer**, Associate Professor Information Technology; **Dr. Christopher Malone**, Chair, Department of Political Science; and **Dr. Emilie Zaslow**, Assistant Professor, Communication Studies.

*Made in NY: The intersection of tech, media and entrepreneurship in New York City’s technology scene* was presented by **Matthew Knell** (BS/CS ’00).

Individual Seidenberg alumni continue to stay connected:

**Terence Finn** (BS/CS ’94) joined the Seidenberg Advisory board. Terence also spoke to the student members of the Computing Club about professional networking and the impact of technology on one’s personal brand.

IBM’s Vice President of Cloud Computing **Dr. Maria Azua Himmel** (DPS ’12) joined the Seidenberg Advisory Board.

ADP’s CIO **Michael Capone** (MBA ’93) also joined the Seidenberg Advisory Board.

First Tech Challenge is a robotics tournament held on the Pace University Pleasantville campus in January. Several alumni participate as event volunteers: **Matthew Ganis** (BS/CS ’85,MBA/IS ’91), **John Checco** (BS/CS ’86, MBA/IS ’87), **Joseph Acampora** (MS/IS ’05), **David Bernhardt** (BS/CS ’93), **Wilfrid Decossard** (BS/CS ’95, MS/IS ’00), **Rocco Donofrio** (BS/IS ’08), **Alex Harrison** (BBA ’90), **Susan Lubalin** (MBA ’89), **Larry Perlstein** (BBA ’80, MBA/IS ’93), **Allyson Ortiz** (BS/CS ’08, MS ’11), **Stiliyan Lazarov** (BS/CS ’10), **Alex Quick** (BS/CS ’11), **Jeremy Pease**(BS/CS ’12), **Julie Gill** (BS/CS ’12), **Paat Sinsuwan** (BS/CS ’10), **Neil Thorne** (BBA ’11), **Jee Wu** (BA/CS ’09, MS/CS ’11)
CLOUT Program

The CLOUT program, which is currently in its twenty-first year, assists unemployed parents and displaced workers in preparing to enter or return to the workforce. Some of the exciting partnerships and projects include the following:

CLOUT PROGRAM
Computers ♦ Literacy ♦ Opportunity ♦ University ♦ Technology

In the 2011-2012 academic year, the CLOUT Program offered employment-directed training at the Lubin Graduate Center.

In Westchester, our twenty-one year partnership with Westchester County Department of Social Services (DSS) expanded by offering our programs to over 160 participants, a forty-percent increase from the year prior. The students are receiving TANF (Temporary Assistance to Needy Families) and are primarily single mothers. During the prior academic year, we started to phase out the credit-bearing programs, due to the Department of Social Services’ decision to no longer offer credit bearing education through our university.

The Basic Business Skills and Business Essentials programs provided the opportunity for 105 to 168 participants to enroll in the CLOUT program. In the Basic Business Skills program, students use a variety of software applications at a basic level while also developing business presentation skills and writing skills, keyboarding skills, and office skills which help students to develop a beginner level workplace skill set.

The Business Essentials program, a more advanced career focus program, provides a three day a week internship and courses that emphasizes business accounting software, more advanced business communication skills and the use of publishing software to enhance the process of communication.

CLOUT’s comprehensive support services include tutoring, employment preparation, and job search, and use of all University services and facilities including computer labs, e-mail, counseling, and libraries.

Mastercard, Inc. sponsored 35 children of our students through the Back to School Clothes for Kids program run in Westchester County by providing new clothing, book bags, and supplies in August 2012.

During the 2011 Holiday Season, employees and friends of the Seidenberg School supported the CLOUT Holiday Wish List. Forty-four children of our students received holiday gifts such as educational toys, books, and clothing.
Pace University is a member of the **Education and Work Consortium**, a unique collaboration between two private institutions (**Metropolitan College of New York and Pace University**) and one public institution (**Medgar Evers College of the City University of New York**). The **Welfare to Careers Project (WTCP)** is a nationally replicable program developed by the Consortium that links college education to work experience and career training, with the ultimate aim of permanently lifting the working poor out of poverty.

**WTCP** served 197 students, who are TANF eligible, and enroll at Medgar Evers College or Metropolitan College of New York to obtain a baccalaureate degree. To facilitate the dissemination of information and to collect the requisite data that supports the success of the project, **Pace University’s Seidenberg School of Computer Science and Information Systems** developed a research study, database, and Web site. The purpose of the study is to determine if education in the form of a baccalaureate degree concomitant with comprehensive career counseling leads to a higher standard of living and ultimately moves participants out of poverty. The study will also ascertain if particular programs are more effective than others. Since the Welfare to Careers Project has been designed to provide comprehensive support to participants in the form of career counselors and academic support specialists, the study will also measure the effectiveness of these services.

The CLOUT Program received funding from the following primary sources:

- **Westchester County Department of Social Services** renewed funding in the amount of $384,833 for the academic year to provide education and training to parents on public assistance.
- **The Education and Work Consortium** renewed funding in the amount of $20,000 to implement the Welfare to Careers Project Web site.

The CLOUT staff:

Lynne Larkin, Christina Pocchiari, Helena Guerin (retired).

Faith Faulk, Marie Iadavaia, Linda Pennachio
COMMUNITY AND CORPORATE OUTREACH
External Activities, Partnerships and Projects

Service Learning

The Seidenberg School continues to attract students from across the University to its service learning courses. Students enrolled in one of multiple sections of CIS 102 or TS 105 Technology for Human Empowerment have the opportunity to teach problem-solving and programming using LEGOs, show seniors how to send e-mail and perform online searches, assist any number of organizations by developing Web sites to raise their visibility, or become empowered to share their newly acquired technology knowledge with various populations in the surrounding community.

In AY 2011-2012, there were 37 service sections offered with a total enrollment of 692 students. Courses offered included:

- Problem Solving using LEGO Robotics
- Intergenerational Computing
- Web Design for Non-profit Organizations
- Information Technology for Strategic Community Planning
- Technology for Human Empowerment

Faculty teaching one or more sections of a service learning this year include:

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<tr>
<th>Robert Benjes</th>
<th>Pauline Mosley</th>
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<td>Sung-Hyuk Cha</td>
<td>Cynthia Penchina</td>
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<td>Jean Coppola</td>
<td>Veronica Portas</td>
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<td>Iris Hershenson</td>
<td>Roberto Rodrigues</td>
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<td>Jonathan Hill</td>
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<td>Julia Khan-Nomee</td>
<td>Jennifer Thomas</td>
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<td>James Lawler</td>
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The school had the privilege of partnering with a number of public institutions and nonprofit organizations in both New York City and Westchester:

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<td>BSL Center</td>
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<td>Center for Aging in Place</td>
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<td>Cerebral Palsy of NYC</td>
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<td>Cerebral Palsy of Westchester</td>
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<td>City of New York Parks &amp; Recreation, Computer Resource Centers</td>
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<td>COGNIFIT.com</td>
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**Concrete Green**
Cristo Rey College Prep School
Emmerson Health and Rehabilitation Center
Green Storm Racing Club
Hallmark Battery Park City Senior Living Facility
Interpreters Without Borders
JCC
Jewish Home Lifecare
Little Sisters of the Assumption-Family in Mission, Inc.
Lutheran Church of the Messiah
MAZII
Mt. Vernon Senior Center
My Second Home Adult Day Care Center
Nourishing Cities
NY Cares
P.S. 3 in Bedford-Stuyvesant, Brooklyn
Pace Active Retirement Center (PARC)
SELFHELP Community Services, Inc.
Shore Hill Housing
St. Demetrios Greek-American Schools
St. Simon the Cyrenian Episcopal Church
Tarrytown Senior Center
Temple Israel Center
The Kensington
The Osborn Retirement Community
The Wartburg Adult Care Community
United Hebrew of New Rochelle
Westchester Department of Senior Programs and Services
THE DOCTOR OF PROFESSIONAL STUDIES IN COMPUTING – 2011-2012

The Doctor of Professional Studies (DPS) in Computing program began its first semester in the Fall of 1999. The program is now in its thirteenth year and in May will graduate its eleventh class. DPS students maintain full-time jobs, while completing the three-year program. Student dissertation areas have included: Agile Methods, Pattern Languages, Visualization of Data, Genetic Algorithms, Distributed Systems Architecture, Software Component Integration, Web Personalization, Software Testing, Data Security, Information Assurance, Web Content Management, Knowledge Management, Software Product Quality and CMMI, Cybercrime, Biometrics, Pattern Recognition, Robotics.

Jeff Hutchinson (DPS ’13), a DPS graduate and CIO, said in reference to the program, “The program is helping me prepare for large scale technological change on a national and global level. It’s very collaborative, and the breadth of thinking by the faculty and doctoral students is giving me the advanced skills I need to help my company grow. I can drive the notions of “Fearless Change,” “Agile,” and “Retrospectives” with my IS/IT department. This is one of the few doctoral programs around for working professionals. It’s the one I needed.”

The Students - With three cohorts in attendance in the Fall of 2011, there are a total of 41 students, a diverse group of 30 men and 11 women, from 9 states. They entered the program with master's degrees from institutions such as Binghamton, Brooklyn College, Fairfield, George Washington, Harvard, NYU, Penn State, Polytechnic, Rochester Institute of Technology, Stevens Institute, Villanova, and, of course, Pace. DPS students are employed full-time by a wide range of employers including: ALCOA, AT&T, Bank of America, Goldman Sachs, IBM, MetLife, Microsoft, Sumitomo Mitsui Banking, Moody’s, The Lloyd Group, UBS, and United Parcel Service among others.

Faculty and Staff – Dr. Fred Grossman, DPS Program Chair, holds primary responsibility for overseeing the DPS program with Dr. Charles Tappert, Associate Chair. Chris Longo handles administrative duties and provides support on the resident weekends. The program also has a graduate assistant.

Teaching faculty include Joseph Bergin, Howard Blum, Sung-Hyuk Cha, Li-Chiou Chen, Paul Dantzig, Ronald Frank, Fred Grossman, Lixin Tao, and Charles Tappert. Other SCSIS faculty members participate in the Research Seminar Course and serve as dissertation advisers and dissertation committee members.

Among the distinguished guest lecturers who visited DPS this year are:

Dr. James “Cope” Coplien, known as the father of Organizational Patterns, is one of the founders of the Software Pattern discipline. He was a pioneer in practical object-oriented design in the early 1990s, and is a widely consulted authority, author, and trainer in the areas of software design and organizational improvements. Cope does extensive consulting in Europe, North America, and the Middle East. His books include
Organizational Patterns and Lean Software Architecture, both of which have been used in the D.P.S. curriculum. His current research lies in DCI.

**Dr. Mary Lynn Manns** is a professor at the University of NC, Ashville, and co-author of *Fearless Change: Patterns for Introducing New Ideas*. She currently teaches courses in management information systems, change leadership and management science.

**Dr. Nalini Ratha**, IBM Research, a member of the Exploratory Computer Vision Group working on several biometrics projects.

**Curriculum** - The first year's (fall, spring, and summer) integrated core curriculum is designed to provide an understanding of computing as a coherent discipline and the environments in which computer-based systems operate. In the second year, students pursue elective study in selected areas that support the projected dissertation research. In addition, students participate in a Research Seminar sequence for each of the six semesters of the first two years of study. These seminar courses introduce students to the various methods and styles of computing research. Students devote the third year to completing their research and to writing the dissertation. A total of 48 credits are required for graduation.

Although students come to campus approximately once a month (5 times per semester), their participation in educational activities is ongoing. Outside of class, in addition to doing their assigned and supplementary readings, writing papers, and preparing presentations, they maintain ongoing communication with the faculty and their fellow students via the Internet. Unlike traditional graduate programs, students do not feel isolated. Strong bonding occurs among the students and faculty.

**Object Oriented/Agile/Java Workshop** - Agile software development and object technology figure prominently in the three-semester sequence of courses on software design and development taken by all first year students. Therefore, a free, non-credit, "jumpstart" workshop is offered to entering students in August at the Graduate Center. Instruction continues online for four weeks, and in genuine workshop style, students proceeded at their own rates and in accordance with their interests in the more advanced topics.

**Assessment** - Feedback from both students and faculty is important. Course opinion surveys for students are completed at the end of the Fall and Spring semesters for first and second year DPS classes. Survey results have assisted in fortifying novel aspects of the program that are working well and in pinpointing shortcomings.

**Recruitment** - Efforts that seem to have the best results are bulk mailings and email blasts to targeted groups, Google AdWords on the internet, e-mails to past inquirers, and DPS information sessions. Most of the DPS inquiries and applications are received through the DPS Web site, seidenberg.pace.edu/dps-it, as the Web site address is displayed on all promotional material. A total of eleven information sessions, seven at the Graduate Center and four at the Midtown Center, were held between December and
June to promote the program. At each, Dr. Fred Grossman gives an overview of the program, and a representative of Graduate Admission explains the admission process. A professionally designed fact sheet, and full-page ad are used in our recruitment campaigns and promotions.

**Special Events –**

- A four-day orientation - for new students entering in the Fall of 2011.

- Annual Barbecue - held in June was a celebration of the Class of 2002’s 10th Anniversary. It has been 10 years since D.P.S. graduated its first class. Almost all members of the 2002 Class attended. At the reunion, The Marilyn Mead Scholarship was awarded for the first time to a third year student, Richard Rodin. The scholarship was founded in memory of Marilyn Mead a member of the class of 2002 who passed away shortly after graduation. The annual barbecue is also attended by faculty, current students, newly accepted students, and DPS alumni.
NACTEL Program

NACTEL is the National Coalition for Telecommunications Education and Learning! Pace University partnered with NACTEL in 1998 to become their premier source of online education to address critical employment needs in the evolving telecommunications industry. NACTEL is a unique partnership of industry employers and unions working with quality educators to create online education programs that meet the needs of current and future telecommunications professionals. The NACTEL Board, consists of individuals from AT&T, Verizon, CenturyLink, Frontier, the IBEW and CWA.

This past year, NACTEL completed its fourteenth year of offering our online degree program in the Associated, Bachelors, and now Masters degree areas. Over the past twelve months we have had five hundred and twenty two registered in the program pursuing their degrees.

In January of 2012, our NACTEL Bachelors program was ranked 4th in the nation by US News and World Report in the category of Online Bachelors Degree Programs. This was wonderful news and reflects the amazing effort that the faculty and staff and NACTEL Board put into this program. Our new Mobile Technologies tract within the AS offering, which started last year, continues to be our most enrolled program.

This past year we also introduced our new Masters in Internet Technology degree for the NACTEL students. The first students started in the Spring 2012 semester and many more have joined since with 21 registered for the fall.

We also introduced “Jump Start” courses, which allow a prospective student to test the water in online education before they make their decision. These 2 credit courses cover areas that can be used in the students everyday activities at work and also apply to their degree program once they start.

We introduced a new Virtual Open House for prospective students. This “open house” is done via an interactive online webinar where we present an overview of the degree programs, talk about advisement, financial aid options, and even take them to class though our Blackboard system. This allows them to see what it looks like and how classes are managed. The pilot program was so successful that now we do this twice each semester.

In May 2012, 91 students graduated from the NACTEL Program. 51 with a BS in Telecommunications and 40 students completed their Associates Degree in Applied Information Technology.