This has turned out to be exciting year at WPUNJ! President Kathleen Waldron is making her mark on the university and is beginning a strategic planning process that will guide us into the future. In the Nursing Department, the Doctor of Nursing Practice program has received all levels of approval and will begin in Fall 2011. The Computer Science Department received ABET re-accreditation, and we are in the process of applying for continuing accreditation of our Physical Education program.

We have been the recipient of several federal and state grants to improve science and math education in the K-12 schools, plus a grant to help us recruit more science and math teachers. We are seeing some encouraging results from these grant projects and hope that they will continue to be funded.

The new Science Annex, now called Science Hall West, opened in June 2010 and is a real asset to our science faculty and students. The next stage in our building project is the complete renovation of Science Hall East, which should be completed by late fall 2011.

Please read on to see updates from the departments in the College, and please keep in touch with us in the future.

How does your Garden Grow?

WPUNJ is about to find out! The Department of Public Health with the assistance of the Department of Biology, the WPU Gardening Club, Facilities, and Dining Services is planning and planting a community garden on campus, near High Mountain West and the water tower. This land will be tended by students, faculty, and staff, with the mission of uniting the campus community and providing hands-on education about healthful eating and sustainable living.

A group of Public Health students from the Applied Program Planning class has been learning about community gardens and working on preparations for the project. As a part of these preparations, Dr. William Kernan and Public Health students Lauren Ramos, Mary Kate Dalton, Dayana Bermudez, Maria Sumat, and Cynthia Miezan attended the 2011 Community Garden Conference.

(Continued on page 2)
**How does your garden grow (Cont’d from Page 1)**

This conference, held at the Frelinghuysen Arboretum on March 3rd, was the first of its kind in New Jersey and included information sessions on the history of community gardens, rainwater harvesting, pest control, beneficial insect management, composting, and two sessions with instructions and tips for starting community gardens. There is a lot of work left to be done before planting can be done at the site, but the project is already well underway, and generating enthusiasm around campus. On April 6th, students began planting seeds in the greenhouse in Hunziker Wing. Several seed trays of tomatoes, beans, squash, basil, and cucumbers are underway.

Students and faculty involved in setting up the community garden are beginning to promote the project on campus. At the April 7th Green Fair in the student center, a table was set up for the garden project. The students designed an interest form to be distributed at the fair, with the hope of gathering contact information from interested parties. The interest in the project was overwhelming, as more than fifty interest forms were collected from students, faculty, staff, and local businesses in just a few hours. Anyone else who is interested is encouraged to contact Dr. William Kernan in the Department of Public Health or email WPUNJgarden@gmail.com.

---

**From the Department of Computer Science**

As the 2010-2011 academic year comes to an end, let us look back at some of the exciting events that have happened in the Computer Science Department and what we are looking forward to in the near future. We started out the fall 2010 semester by the welcoming news that our B.S. degree in Computer Science has been re-accredited by the Computing Accreditation Commission of ABET. ABET is the recognized accreditation agency for college and university programs in applied science, computing, engineering, and technology. Only seven Computer Science programs in New Jersey are accredited by ABET and we are one of them.

We are continuing our effort to develop new courses and improve our curriculum. During this past year, we added two new CS 399 (Selected Topics) courses. One is Net-Centric Computing and the other is Computer & Network Security. Both courses attracted large enrollment and they will be offered again in the upcoming semesters. We have completed the development of a new B.A. degree in CIT (Computer Information Technology). The CIT proposal will be submitted to the college before the end of this academic year. These new courses and the new degree are our on-going effort to innovate our curriculum to reflect the current trends in computing, to prepare our students with the latest technology, and to retain our accreditation status.

Congratulations to Dr. Linda Kaufman. The University has just announced that Dr. Kaufman will receive the Faculty Excellence Award in Research/Creative Activity during commencement ceremony in May, 2011. (cont’d on next page)
From the Department of Computer Science (Cont’d from page 2)

Dr. Kaufman’s award marks the third excellence award won by our faculty members in recognition of our faculty’s achievements by the University in the past three years. Dr. Erh-Wen Hu received the Faculty Excellence Award in Teaching in 2010 and Dr. Cyril S. Ku was the recipient of the Faculty Excellence Award in Service in 2009. Our faculty members have excelled in the three major goals of the mission for William Paterson University: teaching, research and creative activities, and service.

As usual, many scholarly activities were carried out for our students or performed by our faculty. Please go to our new department web site to find all the details. Our department web site has been re-designed to conform to the new university-wide format and theme. We have a new web address: http://cs-cit.wpunj.edu and we have included a new page called Alumni Testimonials. Please send your experience at our department to Dr. Ku (kuc@wpunj.edu). He will be happy to include your testimonial in our web site.

The renovated science building, called Science-East, is scheduled to be finished in October, 2011. After many years of residing in the Coach House, our department will be relocated to the fifth floor of Science-East. Classes in the renovated building will start in the spring 2012 semester with state-of-the-art hardware, software, technology, and research labs. We are very excited about our new facilities and we are looking forward to our new CIT major in the near future in our new home.

Public Health Students Share Research Findings Statewide

On Wednesday April 6, 2011, six undergraduate Health Education majors from the WPUNJ Department of Public Health displayed the results of their undergraduate research projects at the 16th Annual Public Health Symposium held at UMDNJ as part of a state-wide event entitled “Safety is No Accident: An Injury-Free New Jersey.”

The students were selected by a statewide committee to present the findings from their undergraduate research projects conducted under the guidance of Dr. William Kernan. The Symposium, attended by leaders of leading public health agencies and health departments in New Jersey, was cosponsored by UMDNJ, NJIT, Rutgers, and the New Jersey Public Health Association (NJPHA). The students spoke to over 150 symposium participants about their research projects, with topics including: motor vehicle safety, distracted driving, college student nutritional choices and fitness behaviors.

The students also had the opportunity to participate in workshops at the symposium that focused on topics such as poison control, traumatic head injury, workplace injury prevention, and trauma response. At these workshops, students were able to see first-hand the effectiveness of community-based public health initiatives.

Three of the students also presented their research posters at the 2011 WPUNJ Research and Scholarship Day on April 7, 2011. Research posters displaying the work of these students are currently on display in Hunziker Wing, marking the fourth year that the Department of Public Health has recognized the meritorious work of our undergraduate students in the area of public health research.
Students Discuss Medical Missions Trips
By Renee F. Pevour RN MS

Nursing students offered a common hour presentation of 3 separate Medical Missions trips they participated in. Destinations included a Medical Mission with 3 students to the Dominical Republic, a Dental Mission with 2 students to the Dominican Republic and a Medical Mission to Africa with one student. Some were coordinated by community agencies, church groups as well as partnering universities. The mechanism to reach the people differed but all had the same goal of offering professional expertise with a willingness to help others in a humanitarian effort.

The Medical Mission Trip to the Dominican Republic had a group of 3 senior nursing students. They went with the group Foundation for Peace. This trip was organized by the international nursing honor society. Nguyen, Sanchez and Perone learned about the trip at a Sigma Theta Tau International Nursing Honor Society meeting in NYC. When they heard about the trip they ran to the 2 WPUNJ nursing faculty in attendance and declared their desire to go. Encouraged by Dr Bliss, Dr Tracy and the WPUNJ Honor Society’s advisor Dr Louie, the students began the preparations. They obtained vaccinations and prophylactic medications. One student had never been out of the country and needed to obtain a passport. During the mission, 2 RN’s were pared up to treat the people. Each of the WPUNJ students was pared with one Nurse Practitioner. They had the value of working with an advance practice nurse while holding a registered nurse’s spot in the
Students Discuss Medical Missions Trips (cont’d)

The Dental Mission to the Dominican Republic had four organizations working together to reach the people. The groups included The Community Church in Smoke Rise, UNDNJ Dental School, William Paterson University and members of the Free United Methodist Church of Loma de Cabrera, DR. Pichardo and Ruiz explained providing care by using all bottled water and a portable generator for teeth cleaning. They learned new roles and assisted in dental extractions, performed cleaning and were able to serve as translators. They spoke of dentistry as a luxury and as a result primary prevention activities were virtually non-existent. Pichardo and Ruiz spoke of many brave children. Children often came without adults. One 6 year old child would only agree to the needle if one of the students held her hand. The students described many experiences that touched them very personally.

Mikhaiel described her experiences in Africa with trips coordinated by the Coptic Missions. Mikhaiel is a junior nursing student. Her experiences varied from providing play distraction with young children awaiting health checkups to providing support to the professionals offering counseling to the same age children who live on the streets and who had seen and experienced too much.

Mikhaiel explained “Making a difference starts with YOU doing one act of kindness and not waiting on the person next to you to do it”. Her presentation offered the many ways one person can make a difference, even at home. Her theme was: to keep in mind that whatever you do – you need to keep an open mind and an open heart. She reminded the audience that the person in need could have been you. Mikhaiel summed up her presentation as well all of the presentations with the axiom: To think outside the box- you’ll need to step outside of the box. If you see something that you don’t like - Act on it.

From the Kinesiology Department

Dr. Linda Gazzillo Diaz, Athletic Training Education Program (ATEP) Director, supervised five junior ATEP students at the Special Olympics New Jersey Spring Basketball Sectionals held at the College of St. Elizabeth in Morristown in March. The students provided injury evaluation and care for the Special Olympians at the tournament. The students included Darrin Blake, Nicole Ferrarini, Matt Jaremcak, Andrew Levine, and Elisabeth Ouma.

From the Department of Kinesiology (cont’d)

On December 7, 2010 Dr. Robb Rehberg was present at the new Meadowlands Stadium for the signing of New Jersey’s Concussion Law. Dr. Rehberg played an instrumental role in the development of the law by working with several state legislators and other stakeholders to make the law reality. Additionally, Dr. Rehberg was inducted into the Athletic Trainers’ Society of New Jersey’s (ATSNJ) Hall of Fame in February, the highest honor in the athletic training profession in New Jersey.

In October, Dr. Rady and 30 Kinesiology majors participated in the “The Walk for the Cure” on the WPU campus. “The Rady Bunch” raised over $2,000 for research in the fight against breast cancer. This was the fourth consecutive year that the Kinesiology majors participated in this annual campus event.

In Spring 2011, Drs. Michael Figueroa and Jim Manning began a research study using the AlterG Anti-Gravity Treadmill which was developed by NASA. This device allows for the manipulation of the effects of gravity by unloading an individual from 100% - 20% of the original body weight. The purpose of this study is to measure maximal oxygen consumption (VO$_{2\text{max}}$), caloric expenditure, substrate utilization, rating of perceived exertion (RPE), blood pressure and heart rate response of subjects while jogging at 100%, 90% and 80% of their original bodyweight. Approximately 12 Kinesiology students are involved in this study as either subjects and/or research technicians.
From the Department of Communication Disorders

WPU Chapter of the National Student Speech-Language Hearing Association (NSSLHA) receives Student Government Association Approval

Students from the Department of Communication Sciences and Disorders have formed a local WPU chapter of NSSLHA and received SGA approval in May 2010. NSSLHA is a national pre-professional organization recognized by the American Speech-Language Hearing Association (ASHA) for students interested in the study of normal and disordered human communication. WPU NSSLHA’s Executive Board consists of President Laura Bermingham, Vice President Rachael Mierzwa, Secretary Pamela Yepez, Treasurer Poonam Gandhi, Public Relations Officer Caitlin Glaser, Graduate Assistant Advisor Lauren Tanenbaum and Faculty Advisors Drs. Jim Tsiamtsiouris and Margaret Meth. Our local WPU chapter of NSSLHA’s mission is to encourage interest among William Paterson University students in the study and awareness of human communication sciences and disorders, to provide a means for exploration in the field of Speech-Language Pathology and Audiology, and to raise money for organizations committed to assisting those with communication disorders. On April 6, NSSLHA and the Department of Communication Disorders hosted the first annual Autism Awareness Day. Events included a lecture by Dr. Nicole Magaldi, PhD., CCC-SLP entitled “Autism: 101”. The lecture was surrounded by beautiful artwork displays created by people with autism and collected by students in the program. Two fundraisers also took place including a cupcake bake sale and a raffle of two beautifully handpainted coffee mugs, of which all proceeds benefited Autism Speaks™. On April 25th NSSLHA members, students and faculty of the Communication Disorders department, as well as SLPs from around the area, competed in a Bowl-a-Thon at T-Bowl in Wayne, raising over $1,000.00 for The Stuttering Foundation of America.
Two William Paterson University faculty and seven masters students were chosen to present their research findings at the American Speech-Language Hearing Association’s (ASHA) National Conference in Philadelphia in November. Dr. Nicole Magaldi and Dr. Betty Kollia, presented their study entitled *An Investigation of the Visual-Spatial Skills of Children with Autism*. Rebecca Zolotkovsky presented her study *Grammar Interaction in Early and Late Bilinguals* under the advisement of Dr. Betty Kollia; Kara Busker presented her study *The Effect of Gestures on Acquisition of Novel Words*, Emily Gelbard presented her study *The Effect of Shape and Function on Preschool Lexical Acquisition*, and Isabelle Dunn presented her study *Effect of Multimodality Cueing on Lexical Retrieval in Aphasic Speakers*, all under the advisement of Dr. Jennifer Hsu; and Brynna Cunnigham presented her study *Effect of Utterance Length on Intelligibility in Cerebral Palsy*, Colleen Takemoto presented her study *Action Identification and Treatment Techniques for Fluency*, and Jillian Kahn presented her study *Effects of Two Voice Preservation Techniques on Teachers’ Voice Quality*, all under the advisement of Dr. Carole Gelfer. Additionally, Rachael Mierzwa, a senior in the Communication Disorders BA/MS accelerated program, with a minor in Psychology, and has completed an Honors thesis project, which she presented at the Northeast Regional Honors Conference in April 2011. Finally, Jim Tsiamtsiouris was selected to serve as a member of the 2011 Convention Program Committee of the American Speech, Language, Hearing Association. This role involves working with other prominent individuals in the academic community with the intention of planning for the 2011 Convention, which is scheduled for November 2011 and to be held in San Diego, California.
DEPARTMENT AWARDS AND PRESENTATIONS

The Department of Communication Disorders is proud to announce the following awards for our recent M.S. graduates to be presented at the Honors Convocation in May 2011 at William Paterson University: The Andrya Raymer Clinical Excellence Award to Emily Gelbard, The Research Award to Isabelle Dunn, and The Graduate Excellence Award to Nicolle Romaglia. Additionally, at the NJ Speech-Language Hearing Association in May 2011, held in Long Branch, NJ, Rebecca Zolotkovsky will be awarded The Marni Reisberg Award for Clinical Excellence in a Medical Setting. In September 2010, Drs. Betty Kollia and Margaret Meth presented a workshop to Speech and Language Pathologists from Bergen County Special Services entitled ‘Language Differences and Disorders in Bilingual and ESL Student’. Furthermore, at the 2011 WPU research and Scholarship day, on April 7, 2011, Drs. Nicole Magaldi and Betty Kollia, presented their study entitled An Investigation of the Visual-Spatial Skills of Children with Autism. Drs. Kollia and Magaldi have been studying how the level of pictorial iconicity impacts the children’s ability to recognize pictures and on which physical parameters of the visual stimulus children rely more when matching pictures. Finally, Dr. Jim Tsiamtsiouris was awarded $4,000 from the College of Science and Health’s Center for Research to conduct research over the summer in the area of childhood stuttering. Dr. Tsiamtsiouris and his colleagues at the Universities of Vermont and Houston were also awarded $15,000 to study the effects of stuttering treatment on emotion-related variables.

IN THE COMMUNITY...

Students from the Department of Communication Sciences and Disorders give back to the local community. In October 2010, Dr. Vishwa Bhat supervised WPU CODS students at the Wayne Community Health Fair Day in providing complimentary hearing screenings. Additionally, as a requirement for their Clinical Practicum coursework, all students are required to administer speech and hearing screenings to pre-school students in the area at various locations. These screenings are vital in early detection of speech and/or hearing problems in young children. Dr. Margaret Meth, Clinic Director, has developed long-standing relationships with several schools including schools in East Orange, Nutley, Fairlawn and Upper Saddle River and our students have been providing these centers with complimentary screenings for many years. On April 13th and 14th student clinicians conducted complimentary acoustic and perceptual voice screenings for members of the WPUNJ community, under the supervision of faculty member Dr. Carole Gelfer and adjunct professor Teri Rosenberg. The screenings attempted to rule out any voice problems of those who were screened. Voice problems arise from a variety of sources, including overuse or misuse, cancer, infection, or injury. Proper care and use of voice can help maintain vocal health and prevent problems in the future.
Communication Disorders in the News

William Paterson University received front page headlines in the regional newspaper “The Record,” when Dr. Jim Tsiamtsiouris was featured as an expert on fluency disorders. In the article, he discussed the impact of stuttering and highlighted the services that we provide at the William Paterson University Speech and Hearing Clinic (WPUSHC). This was syndicated in dozens of other major newspapers across the country and led to a follow-up article in a local newspaper, “Wayne Today,” in which Dr. Tsiamtsiouris was featured again. These publications resulted in many families contacting the WPUSHC for a complimentary consultation.

Doctor of Nursing Practice (DNP) Degree at WPUNJ
By Renee Pevour RN MS

The Doctor of Nursing Practice (DNP) cohort begins fall 2011. Currently 22 students have applied for the first doctoral program at WPUNJ. The course sequence is designed to accommodate the working nurse. Two courses will be offered in the fall. One course is online and the second course is scheduled on selected Saturdays. This post master’s degree will require 41 credits to complete.

The Doctor of Nursing Practice is identified as the practice-focused doctorate in nursing. The Doctor of Philosophy (PhD) is a research-focused degree. The DNP is described as a terminal degree which has “rigorous and demanding expectations: a scholarly approach to the discipline and a commitment to the advancement of the profession” (AACN, 2006).

The doctoral prepared nurse with the practice-focused preparation offers various positive outcomes to the health care delivery system. The nurse scholars become familiar with the level of evidence and research available to support best practices. They can initiate and design quality innovative improvements in health care. They also can lead health care organizations in methods to incorporate these best practice improvements in the delivery of care. This translates into one goal of the DNP program which is to improve patient outcomes. The varied roles of the Doctor of Nursing practitioner may include direct patient care in a one-on-one nursing patient relationship, leadership in health care organizations, collaborating with the health care organization’s team to improve the systems of care and effecting policy at the institutional, state and national levels. The major purpose is to create mechanisms which will affect the quality of health outcomes in populations of patients.

The practice-focused doctoral prepared nurse will demonstrate proficiency in 8 areas essential to the DNP. These include the ability to demonstrate: the scientific underpinnings of practice; leadership in quality improvement activities; interpretation of evidence for best practices; effective use of technology across the health care system; advocacy strategies for health policy; interprofessional collaboration methods; advanced skill in clinical prevention for populations and lastly demonstrate refined assessment skills in advanced nursing practice.

For more information about the practice-focused doctorate contact Kem Louie PhD, RN at louiek@wpunj.edu
From the Biology Department

This year the Biology department welcomed a new faculty member, Dr. Jamie Weiss. Dr. Weiss earned her B.A. in Biological Science from Rutgers University and her Ph.D. in Cellular/Molecular Neuroscience from Iowa State University. Since that time she has worked in the U.K. as a Research Fellow (University of Leeds, University of Liverpool), then Lecturer and Principal Investigator in Biomedical Science at the University of Sheffield. Her research on ion channel physiology has resulted in fifteen publications in top journals. She has involved both undergraduate and graduate students in her research, and we feel very fortunate to welcome her to our department.

We have been very excited to be teaching out of our new laboratories in the new Science Hall Annex. We started the year, as always, with our new student orientation meeting for freshmen and transfer students, which was well attended in the newly renovated Science Hall auditorium. Twenty of our Biology and Biotechnology majors are receiving NSF ISSBB (Increasing Student Success in Biology and Biotechnology) scholarships. These scholarships are aimed at students who intend on pursuing a career in research or teaching. We had a dinner with the ISSBB recipients and their families in October. We were fortunate to be funded with a $592,095 NSF-STEM grant to continue these scholarships until 2015.

In March, about 70 majors attended a Biology/Biotechnology Career Day, emphasizing research and teaching careers. Several of our outside speakers were WPUNJ alumni. On April 16, 2011 the 5th Annual Undergraduate Research Symposium in the Biological & Chemical Sciences was held at William Paterson University. This meeting provides a forum for presentation of research findings by undergraduate students enrolled in colleges and universities in the Mid-Atlantic area. On May 12th the department will hold its annual Senior Awards ceremony and on May 13th we will hold our fifth annual Faculty/Student Softball game.

Last summer over 25 undergraduates were awarded paid internships through the PASS/MAPS program and the provosts office. This summer, there will be about the same number of paid internships available for our majors, through the LSAMPs grant, the NOYCE grant and the provost’s office.
CONTACT US

Sandra DeYoung, Ed.D.
Dean, College of Science and Health
Office: 415 Hamburg Tpk., #42
Mailing address: Science Hall 317
Phone: 973-720-2432

Email: deyoungs@wpunj.edu

Jean Fuller-Stanley, Ph.D.
Associate Dean, College of Science and Health
Office: 415 Hamburg Tpk., #42
Mailing address: Science Hall 317
Phone: 973-720-3415

Email: fullerstanleyj@wpunj.edu