EWiND facility aimed at improvements in wind energy

Technology has many potential applications

BY BILL GILROY, PUBLIC RELATIONS

Anyone who lives in the South Bend region quickly becomes conscious of the wind. It drives the lake-effect snowstorms that leave us copious amounts of snow to shovel each winter. We take note of it in the spring and summer and hope it doesn’t signal the approach of tornados. And we nervously watch it on autumn Saturdays and pray that it’s blowing against opposing field goal kickers and at the back of our placekickers.

These same wind dynamics make Notre Dame a sweet spot for wind research. A wind turbine and a meteorological tower recently erected on the White Field are a highly visible symbol of the University’s commitment to establish a premier wind energy research program. Thomas Corke and Robert Nelson, professors of aerospace and mechanical engineering, are directing the effort, which includes the establishment of a Laboratory for Enhanced Wind Energy Design, titled “EWiND.” The program will seek to develop revolutionary designs that involve “virtual aerodynamic shaping” for enhanced wind energy systems. The laboratory will provide a rich environment for multidisciplinary investigations including fluid dynamics, acoustics, fluid-structure interaction, design optimization, materials, failure modeling, system feedback and control, and atmospheric turbulence.

The EWiND initiative is a key component of the University’s Strategic Research Investment (SRI) program that has allocated $80 million of Notre Dame’s own money to advance the scope, excellence and visibility of its research enterprise. Although wind energy has long been recognized as a low-cost, clean source of electricity, substantial reductions in the cost of per kilowatt hour are needed for the technology to become competitive with fossil-powered generating technologies. The White Field wind turbine research laboratory is aimed at overcoming this obstacle through the design of advanced rotors that feature a Notre Dame-patented plasma flow control technology. The plasma actuators are designed to increase the energy capture of wind turbines without increasing the weight of the rotors.

Corke and Nelson hope to demonstrate that the technological enhancement increases power generation and extends the life span of wind turbine systems while decreasing the cost of harvesting wind energy. The White Field facility will feature two wind turbines, including one that serves as a baseline and one that has been modified with the plasma actuators. The laboratory’s meteorological tower provides for continuous documentation of wind conditions.

The Notre Dame-patented plasma control technology has many other applications, including both reducing airplane landing gear noise and air resistance (drag) on the back side of trucks, which results in substantial fuel savings.

Simulations of car races changed research focus to power generation

The problem with that, Bauer says, is that most of the time, a vehicle requires much less power than what corresponds to its efficiency sweet spot. For example, a 300-horsepower Corvette would need to generate roughly about 150 HP to operate at its efficiency optimum. However, in reality it generates a small fraction of this power most of the time, putting the engine into a very inefficient operating regime that often wastes more than 90 percent of the fuel’s energy. “That’s the problem with all cars nowadays,” he says. “Engines rarely run at their optimal operating point.”

Bauer works to buffer the energy in storage devices called ultra-capacitors. Components were prohibitively expensive for commercial use only a few years ago, but costs are trending down. A six-pack of ultra-capacitors that cost more than $600 five years ago now sells for $200. Three years ago, Bauer and two partners started SlipStream, a company that aims to develop efficient hybrid electric power generation systems with applications such as HEVs and standby generators for military ops and power generation in cold climates where generators run constantly. Current technologies often achieve average efficiencies of less than 10 percent.

Although the principle of SlipStream’s hyper-efficient generator has been demonstrated, the company is still conducting tests for reliability and robustness and is in the process of improving packaging of the entire system.

This summer Bauer starts a yearlong sabbatical in Spain at the Renewable Energy Institute in the Polytechnic University of Valencia, near the Alcoy campus where he taught students in the 2011 Notre Dame Engineering program for six weeks last summer.
First Green Office Certification awarded

FROM THE OFFICE OF SUSTAINABILITY

Congratulations to the Office of the Vice President for Research for becoming the first to achieve a Green Office Certification and for being the pilot office for this new campus program. “Being the first department on campus to earn the certification is an honor, and it is a tremendously proud moment for us,” said Mark DeVore, research administration.

The Green Office Certification is a new initiative from the Office of Sustainability, designed to engage faculty and staff with the University’s strategic goals of reducing carbon emissions by 50 percent per square foot and increasing waste diversion to 67 percent, both by 2030.

The Green Team at OVPR has been hard at work this year placing extra recycling bins in their conference rooms, educating the staff about what is recyclable, promoting the use of reusable K-cups and switching from individual bottled water to shared coolers. The team has been pleasantly surprised with the support it has received from the office regarding some of these changes.

“Reusable K-cups have been a big hit with our office,” staff members claim the coffee tastes better and fresher than the disposable alternative,” said DeVore.

The OVPR Green Team played an integral role in developing and refining the certification program. “Their feedback was extremely helpful in understanding how a certification program would be implemented in a large office,” said Erin Hafner, programs manager in the Office of Sustainability.

“Together, we were able to shape the program into one that sets a high standard of sustainability while still being streamlined and feasible.”

The certification process covers five categories: education, energy, waste, transportation and purchasing. Points can be earned for actions such as using smart strips, regularly reminding co-workers to be green through email, using reusable towels and encouraging the use of public transportation or carpooling. Partial credit is available, as well as “innovation” credit for creative solutions to further sustainability efforts above and beyond the requirements.

In order to be certified, offices must be audited by a member of the Office of Sustainability’s staff. To initiate the process for your own office, visit sustainability.nd.edu or call 651-2748.

Update to Central Authentication Service

FROM THE OFFICE OF INFORMATION TECHNOLOGY

The University’s Central Authentication Service (CAS) has a new look. What is CAS? It’s the service that verifies the credentials of faculty, staff and students with an individual’s netID and password to authorize access for Web applications. The first time you log in to a Web application that utilizes CAS, you’ll see a new login screen. It has been redesigned to meet the new University brand standards.

Once your credentials are confirmed through CAS, you can open any other Web application that utilizes CAS while your browser is open without logging in again. Not only does this feature offer added convenience, it also helps reduce security risks by limiting the exposure of your password.

While single sign-on provides user convenience, there is a difference between logging out of one Web application and logging out of CAS. When you log out of only one Web application, any other Web application that uses CAS will remain accessible on your computer.

In order to completely log out of CAS, you must exit your browser. Be sure to do so when leaving your computer unattended for any length of time or when you leave for the day. This will ensure that no other person can access your personal information in any Web application that uses CAS from your computer.

For additional information, visit oithelp.nd.edu/netid-and-passwords/central-authentication-service-cas/.

Notre Dame Wellness Center opens in July

New facility will offer a range of services, including a drive-through pharmacy

BY DEE DEE STERLING, HUMAN RESOURCES

As you may have noticed, the corner of Buda Road and Wilson Drive is buzzing with activity, as construction on the new Notre Dame Wellness Center continues on schedule to open in July.

This full-service, state-of-the-art facility is part of Notre Dame’s commitment to enhancing health and wellness benefits for eligible faculty, staff and dependents. It can be utilized as your primary health care provider, or as a complement to your current primary health care provider.

According to John Albrecht-Groves, executive vice president, “Providing access to services that improve the health and well-being of our faculty, staff and their dependents is a top priority for Notre Dame. We are very pleased that the new onsite wellness center will enable them to obtain quality health care and pharmacy services in a manner that is convenient, private and totally confidential.”

The Notre Dame Wellness Center and Pharmacy will be staffed and managed by Take Care Systems, a leader in providing workplace health care. All patient medical records will be maintained in accordance with Take Care’s stringent and well-documented security standards, as well as in compliance with all state and federal laws. No one’s personal health information will be shared with Notre Dame.

The highly qualified staff will include a full-time physician, nurse practitioner, physical therapist, registered nurses, full-time pharmacist and medical support personnel. The center will offer convenient hours for appointments and times for dropping off and picking up prescriptions.

The Wellness Center is open 7 a.m. to 7 p.m. Monday through Friday and 8 a.m. to noon Saturday. On home football weekends, the facility will be closed but will reopen by 1 p.m. Sunday.

The pharmacy is open from 7:30 a.m. to 7:30 p.m. Monday through Friday and from 8:30 a.m. to 12:30 p.m. Saturday. On home football weekends the pharmacy will be closed Saturday, but open 1:30 to 5:30 p.m. Sunday.

For more information about the new Notre Dame Wellness Center, visit hr.nd.edu/benefits/the-notre-dame-wellness-center/.

HEALTH CARE SERVICES provided will include:

- Primary Care—including regular check-ups and the treatment of acute conditions such as sore throats and infections.
- Pediatrics—providing care for children from infancy to age 18, including vaccinations and sports physicals.
- Chronic Condition Management—for conditions such as asthma, arthritis, diabetes and heart disease.
- Physical Therapy—an array of services to help reduce pain and improve body motion and function.
- Specialty Infusion Services—providing intravenous hydration and medications.
- Health and Wellness Coaching—programs focusing on prevention and lifestyle improvement.

PHARMACY SERVICES will include:

- Prescription fill and refill
- Generic and 90-day fills
- Medication Therapy Management
- Consultations with experienced Walgreens pharmacists
- Drive-through convenience
Notre Dame leads in discussion of the ethical and societal impacts of nanotechnology

**BY ARNIE PHELPS**
**COLLEGE OF ENGINEERING**

The world of nanotechnology, which involves science and engineering down at billionths-of-a-meter scales, might seem remote. But like most new advances, the application of this technology to everyday experience has implications that can affect people in real ways. If not anticipated or planned for, some of those implications might even be harmful.

In a recent page, Kathleen Eggleson, a research scientist in the Center for Nano Science and Technology (NDnano), provided an example of a nanotechnology-related safety and ethics problem that is unfolding right now.

The problem: Hospital-acquired infections are a persistent, costly and controversial issue. If a patient goes in for one condition, say an injury, but ends up being infected by a microorganism picked up in the hospital itself, the microorganism might even have developed a resistance to conventional drug treatments.

The solution: Engineers are developing new and innovative ways of coating medical materials with nano-sized particles of silver, an element that has long been known for its antimicrobial properties. These particles are being applied to hard surfaces, such as bedrails and doors, and to fabrics, such as sheets, gowns and curtains, by a growing number of medical supply companies. And these new materials are proving effective.

“Nanovasive coatings have made life-saving differences to the properties of typical hospital items,” says Eggleson. “Just this last December, a textile made by a Swiss company was the first nano-scale material approved as a pesticide by the EPA.”

The possible new danger: “The vast majority of bacteria and other microorganisms are actually neutral, or even beneficial, to human life and a healthy environment. For example, some bacteria are needed to maintain appropriate levels of nitrogen in the air and, others, living inside the human body, are critical to both vitamin synthesis and digestion. So, overuse of nanovasive products, especially outside of clinical environments, could pose a danger to needed microorganisms and enable resistant strains to flourish. Under most conditions, the preservation of microbial biodiversity is a benefit,” explains Eggleson.

“In fact, those who would use these potential new antimicrobial technologies for frivolous uses, such as for odor control, work directly against the U.S. National Nanotechnology Initiative’s goal of responsible nanotechnology development.”

An ongoing, community-wide conversation about nanotechnology

Eggleson came to the Center for Nano Science and Technology last year to study and prompt discussion of problems like these.

“NDnano is expanding its scope and mission,” says Eggleson. “We try to do as much as we can to engage the community in this exciting area,” says Eggleson.

**NOTRE DAME AND CLEVELAND CLINIC FORM HEALTH CARE INNOVATION ALLIANCE**

Notre Dame has entered into a collaborative relationship with the Cleveland Clinic for joint development and commercialization of medical innovations.

Notre Dame will be the first university within the Cleveland Clinic Healthcare Innovation Alliance network, which includes the largest nonprofit health care system in the mid-Atlantic, MedStar Health and its Medstar Institute for Innovation, and the nation’s second-largest nonprofit, secular health care system, North Shore Long Island Jewish and its Feinstein Institute for Medical Research.

Through the Healthcare Innovation Alliance, Notre Dame will have access to Cleveland Clinic Innovations’ comprehensive technology commercialization services infrastructure. Through streamlined integration of the various capabilities between all Alliance members, there will be a focus on the development and deployment of new medical innovations that are generated by faculty and researchers at Notre Dame.

In recent years, Notre Dame has demonstrated its commitment to strengthening its research enterprise by increasing investments in state-of-the-art facilities and infrastructure. While Notre Dame does not have a medical school, the University has grown its funded research program significantly and now secures external funding totaling more than $110 million annually. The University has invested $80 million of internal funding through its “Strategic Research Investment” program to advance the scope, excellence and visibility of its research and scholarship.

With approximately 50 inventor disclosures annually, Notre Dame sees the Healthcare Innovation Alliance network as an opportunity to create a commercialization pathway for innovative technologies in the biotechnology and health sciences space.

By collaborating with Cleveland Clinic Innovations, we are hoping to create marketplace opportunities for our biomedical and health innovations to be a force for good,” said Robert Bernhard, the University’s vice president for research. “We are extremely pleased to partner with Cleveland Clinic Innovations and the Alliance for the excellent complementary technology development and commercialization capabilities the alliance offers.”

Through the distinctive Healthcare Innovation Alliance, Cleveland Clinic Innovations will provide on-the-ground support to assist Notre Dame to advance the creative ideas of its researchers, faculty and staff. Cleveland Clinic Innovations will employ the same knowledge and resources that have helped it create a reputation as an industry leader in navigating the commercialization process, resulting in 48 spin-off companies and more than 300 licensed technologies.

Cleveland Clinic is a nonprofit multispecialty academic medical center that integrates clinical and hospital care with research and education. Located in Cleveland, it was founded in 1921 by four renowned physicians with a vision of providing outstanding patient care based upon the principles of cooperation, compassion and innovation.

More information is available online at clevelandclinic.org/innovations.
Student Affairs.

“With her distinguished Brooklyn background, she is having a reputation as an educator who inspires students to think beyond traditional disciplinary boundaries. This is exemplified by her leadership in providing five-year engineering students with an understanding of the more biological aspects of chemistry. Since 2005 she has taught the class “General Chemistry: Fundamental Principles and Biological Processes,” which has grown from 250 students to more than 500 last semester. “The success of this class is a result of her ability to explain challenging concepts to students from diverse backgrounds, her relentless efforts to find new ways to illustrate ideas, and the creation of an environment in which the students believe she is dedicated to their success. Her ability to see the deep connection to student learning, and infectious enthusiasm are a dynamic combination in the classroom.”

Margaret R. Pfeil, Assistant Professor of Theology, is the recipient of the 2012 Rev. Geeneville J. Clark Award, honoring a person whose volunteer activities advance the cause of peace and human rights. A member of the Notre Dame faculty in the Department of Theology with a joint appointment in the Center for Social Concerns, she specializes in Catholic social thought and the development of global doctrine. She is co-founder of the St. Peter Claver Catholic Worker House in South Bend and also runs Our Lady of the Rosary daycare fordrop-in center. Most recently she launched the Monroe Park Grocery Co-op to make healthy food more accessible to low-income students and simultaneously providing a market for local producers and farmers. “Few people have a Gospel mandate to walk with the poor with as much integrity.”

Walter J. Nicgorski, Professor in the Program of Liberal Studies and Concurrent Professor of Political Science, is the recipient of the 2012 Faculty Award. Nicgorski came to Notre Dame in 1964 and has played a significant role in aspects of University life over the course of the ensuing 48 years. He has demonstrated excellence in teaching at both the undergraduate and graduate levels. “During his tenure he has been recognized for his dedication and developing the reputation of the College of Arts and Letters and to the University. In addition, he has had a remarkable professional career in his field of study and has acted as an important representative of the University in his service to the profession.”

Harriet E. Baldwin, Director of Academic Affairs, is the recipient of the 2012 Presidential Award, given to a member of the faculty who has demonstrated distinguished service to Notre Dame over an extended period of time. Baldwin has served the University for more than 30 years, first in the Office of Advanced Studies, then the Center for Continuing Education, and now as director of academic conferences. Because of her superb leadership, creativity, energy under pressure and commitment to the development of the mission here, the number of scholarly events at Notre Dame has almost tripled during her presidency. “The courage and commitment have made it possible for Notre Dame to become known nationally and internationally as one of the most hospitable and efficient universities for conference and symposia, and our academic reputation among peers truly has been enhanced in large part because of her.”

Librarian Sheri L. Jones, recipient of the 2012 Rev. Paul J. Feik, C.S.C., Award, for significant contributions by library faculty, has played a major role in outstanding service to all members of the Notre Dame community. She has been a generous mentor to many colleagues and an advocate for the needs of students and faculty. “Mindful of the need of emerging scholars, she has initiated high-impact programs in advance information literacy skills on campus while at the same time pursuing pioneering work in library assessment that has earned her the respect of her colleagues at Notre Dame as well as the library community at large.”

Rev. George A. Rozum, C.S.C., Rector of Alumni Hall, is the recipient of the 2012 Rev. William A. Toohey, C.S.C., Award for Social Justice. As rector, Father Rozum has welcomed students and families to the University for more than three decades and is renowned for knowing the name of every student in his hall. Thirty years ago he began holding Mass in Alumni Hall after each home football game, donating the collections to Holy Cross missionaries at Notre Dame College in Bangladesh. To date, his efforts have generated more than half a million dollars for this cause. “His example of service to the poor has raised awareness of the needs of the people of Bangladesh and contributed to the education of thousands.”

Rev. John E. Conley, C.S.C., Rector of Siegfried Hall, is this year’s winner of the Rev. William A. Toohey, C.S.C., Award for Preaching. Father Conley has been an important and effective pastoral minister at Notre Dame for 24 years, first as Holy Cross' vocations director and, for the last 15 years, as rector of Siegfried Hall. He also helped lead hundreds of students to develop their faith as a long-time director of Campus Ministry's confirmation program. A gifted preacher, he has a reputation for his ability to relate to student life and a voluminous knowledge of Notre Dame history, both of which inform his homilies and enable him to make substantial contributions within the Office of Student Affairs. “He is a faithful and enthusiastic proponent of the University’s mission to educate the whole person in mind and heart, and promotes the concept of the Notre Dame family through his preaching of the Word and his active attention to the members of the community.”

Sister Susan Dunn, O.P., Special Counselor in the Office of Vice President for Student Affairs, is the recipient of the 2012 Rev. John Francis “Pop” Farley, C.S.C., Award, given annually to honor distinguished service to student life at Notre Dame. Sister Dunn is a royal Dominican Sister of Sparkhill who has dedicated the past 11 years to service and ministry through the Office of Student Affairs, first as rector of Lyons Hall and then in the Office of the Vice President for Student Affairs, where she supervised the Center, Multicultural Student Programs and Services, and International Student Services and Activities. Without conditional love, she has given personal support to Notre Dame’s gay, lesbian, bisexual and questioning students and served as co-chair of the University’s CORE Council. Additionally, she has helped form students as chaplains for the women’s basketball team and as a member of the initial formation team for the Congregation of Holy Cross.

“With her distinguished Brooklyn accent, she is one of the most hospitable and efficient University leaders.”

To date, 83 employees have participated in the Green Belt training, of which 41 are currently being certified in projects across campus. Those interested in becoming Green Belt certified should contact the Office of Continuous Improvement, 631-1293 or visit continuousimprovement.nd.edu.
PRESIDENTIAL AWARDS

THE PRESIDENTIAL VALUES AWARD
In recognition of employees whose performance reflects the University’s core values of integrity, accountability, teamwork, leadership in mission and leadership in excellence.

NANCY FULCHER
Assistant Director, Strategic Sourcing, Procurement Services

Those who work with Nancy quickly notice her commitment to the University’s Catholic mission and values while making significant contributions for the betterment of the University. Nancy conducts herself with such class and integrity while serving as a role model—personally and professionally—for those fortunate enough to work with her. Nancy willingly adapts to change. For an employer with such longevity, she eagerly embraces change of all types—in her role, in the department’s leadership and reporting structure, in technology, and other aspects of work life.
Before sustainability initiatives were popular in higher education, Nancy had negotiated the implementation of a reusable tote program with our preferred suppliers of office supplies. Notre Dame was the second university to implement this program. As an employee, Nancy regularly goes above the call of duty. She ensures that her team holds the University’s suppliers to high standards. She displays the highest level of integrity while operating in a position that is subject to potential influence. She is selfless and hardworking, and displays a willingness to get involved. Recently, when Procurement was given the responsibility for campus travel, Nancy played a key role in the development of the travelEND program—the system, the campus rollout, and the implementation of day-to-day management of this highly-visible initiative.

Not many people can claim to be known around campus as the “Mayor of Notre Dame,” but if there were ever an election for this title, Sharon Hawkins would be at the top of everyone’s list.
Sharon has a very difficult job as a Senior Human Resource Consultant. She is frequently faced with difficult and challenging situations but always remains positive, unflinching in the opportunity to help others. You can find her on campus at all hours of the day and night supporting managers and employees in difficult situations.
She is the epitome of a team player—her vocabulary is never about ‘I’ but always about ‘we’. Sharon is as compassionate a person as you will ever meet and wants nothing more than to see everyone at the University be successful and happy in their jobs and in life in general. She makes a point of befriending as many people on campus as possible and greets everyone with a welcoming smile and exceptionally approachable demeanor. It is almost impossible to walk across campus without someone calling out hello to her, or coming over for a hug. She has the uncanny ability to make everyone feel valued. Sharon lives the mission of the University and exemplifies the core values of the University in all she does.

SHARON HAWKINS
Senior Human Resource Consultant, Department Of Human Resources

What do you do with old pizza dough? May Vokos in South Dining Hall can tell you. She takes the time to roll them out and cuts them into cinnamon rolls. Students line up to get them! May shows outstanding creativity in not wasting food and keeping her customers happy. Her innovations have led to new menu items, such as the ‘make-your-own’ pizza. The idea materialized when she ran out of pizza crust toward the end of a meal. She went to the deli and started using pita bread rounds to make individual pizzas. She could not make them fast enough! May is also responsible for taking extra breadsticks and making them into cinnamon breadsticks, which again became so popular they were added to the regular menu. If there is an issue with an ingredient, she takes great initiative to correct the problem or find a creative solution, always taking pride in presenting a consistent and quality product to the students. May is extremely diligent in teaching the correct techniques to others so all shifts can provide an excellent menu item. Her innovation, creativity, initiative and continual pursuit of quality all exemplify her outstanding customer service.

MAY VOKOS
Kitchen Associate, Food Services, South Dining Hall

Garrett is driven to improve the lives of others through innovative discovery, and the results are most impressive. He has not only discovered potential new therapies for dreaded diseases like tuberculosis, drug-resistant bacterial infections and cancer, but shares the knowledge through his publications and patents. The results have attracted considerable attention to Notre Dame with several intellectual property developments that have been licensed or are under negotiation. He is the ideal role model for enthusiastically doing innovative research, sharing it through publications and patents while being a congenial, constructive and positive ambassador for the power of new knowledge.
Garrett serves as a lab manager, doing all of the ordering, organizing the labs, helping get new coworkers settled, introducing the electronic notebook system and many other services that keep the group running well. At the same time, he writes manuscripts and patent applications, programming, organizes chemical data and results from assays by many collaborators around the world, and has been very helpful in preparation of successful grant applications and even helping to organize startup/ spin-off companies, including interactions with outside interested parties. While doing everything, Garrett serves as an excellent role model for how to do chemistry and does it well and, at the same time, is a caring, interactive group citizen.

GARRETT MORASKI
Administrative Research Technician, Lab/Program Manager, Chemistry and Biochemistry

Augie’s leadership and management style gives his staff to work to their fullest potential. They will readily affirm, “He gets it, and treats us all with such respect that we are energized to do our very best. He is truly an exceptional leader.” Augie has a process in place that provides a clear expectation—there is a predictable flow from the time a research request is logged in until the finished report is posted. Many of Augie’s staff believe he is the best manager they have ever worked with. His faith-based approach to leadership creates a feeling of importance for each one because he gives them the credit for successes that they have done well, both individually and as a team. Working as a team is very important to Augie, and he provides team-building experiences on a regular basis. He understands that team members have different learning and work styles and is willing to make adjustments so that each individual can be successful.

Augie really cares about the people who report to him, and understands the need for a good balance of work and home life and what is important. He has a great sense of humor and always has a positive attitude. Augie is a wonderful leader and gentle, Christian man, and because of that, he has a happy, well-rounded staff, full of enthusiasm for Our Lady’s University.

AUGIE FREDA
Director, Development-Research

THE PRESIDENTIAL ACHIEVEMENT AWARD
In recognition of breakthrough initiatives, extraordinary innovations and significant contributions to the University’s long-term success.

THE PRESIDENTIAL LEADERSHIP AWARD
In recognition of outstanding staff supervisory, exempt or non-exempt staff, for their outstanding servant leadership.

PHASE II CONSTRUCTION OF CEDAR GROVE MAUSOLEA
Ground was broken in May for two new mausoleas at Cedar Grove Cemetery, bringing the number of above-ground burial sites to four—all named from the Litany of Mary. The two newest, Mary, Holy Mother of God and Mary, Holy Mother of the Church, are expected to be completed by early December. All four buildings were designed by Notre Dame’s Thomas Gordon Smith, professor of architecture. The new mausoleas will offer 288 companion niches (burial spaces for cremated remains) per building as well as four types of crypts. Although Notre Dame faculty, staff and retirees as well as members of Sacred Heart Parish are eligible for burial in the mausolea, the majority of the requests for above-ground burial come from Notre Dame alumni.

For further information, contact Karmin Meade at kmeade1@nd.edu or 631-5660.

Architect’s rendering of Phase II of the construction.
Office of the Provost announces faculty milestones and emerita/emeritus designations were announced.

TO EMERITA OR EMERITUS

John G. Borkowski
Psychology

Jacqueline V. Bregun
English

Sandra Byrnes
Management

E. Jane Doering
Program of Liberal Studies

Ian B. Duncanson
Radiation Laboratory

Samuel S. Gaglio
Mendoza College of Business

TO EMERITA OR EMERITUS

Nathan D. Mitchell
Theology

Walter J. Nieszporzki
Program of Liberal Studies

L. John Roos
Political Science

Stephen E. Silliman
Civil Engineering and Geological Sciences

John A. Weber
Marketing

Thomas L. Whitman
Psychology

TO PROFESSIONAL SPECIALIST

Kevin Barry
Kane Center for Teaching and Learning

Denise M. Della Rossa
Teaching Professor

William L. Donaruma
Teaching Professor

Margaret M. Forester
Teaching Professor

Judith L. Fox
Clinical Professor

Edward F. Hums
Teaching Professor

TO RESEARCH ASSOCIATE PROFESSOR

Nicolas Lehner
Physics

Sergei B. Vakulenko
Chemistry and Biochemistry

TO RESEARCH PROFESSOR

David A. Clairmont
Theology

TO ASSOCIATE PROFESSOR AND TENURE

Jessica L. Collett
Sociology

Joshua D. Shreve
Civil Engineering and Geological Sciences

Daewon Sun
Management
The University congratulates faculty members whose promotions, appointments as endowed professors and emerita/emeritus designations were announced at the President’s Dinner Tuesday, May 22.

Continued on page 8
Office of the Provost announces faculty milestones

Continued from page 7

TO PROFESSOR

Thomas E. Anderson
Romance Language and Literature

Patricia A. Blanchette
Philosophy

W. Marion Bloomer
Classics

Seth N. Brown
Chemistry and Biochemistry

David E. Campbell
Political Science

John C. Cavadias
Theology

Jon T. Coleman
History

Brad S. Gregory
History

Sandra M. Gustafson
English

Michael D. Hildreth
Physics

Candida R. Moss
Theology

Geoffrey C. Layman
Political Science

Brad S. Gregory
History

Sandra M. Gustafson
English

Michael D. Hildreth
Physics

Candida R. Moss
Theology

Geoffrey C. Layman
Political Science

John C. Cavadias
Theology

Darcia F. Narvaez
Psychology

Glen L. Niebur
Aerospace and Mechanical Engineering

David A. Smith
Psychology

Duncan G. Stroik
Architecture

Donald Crafton
Joseph and Elizabeth Robbie Professor of Film, Television, and Theatre

Richard A. Jensen
Gilbert Schaefer Professor of Economics

Joannes J. Westerink
Notre Dame Professor of Computational Hydraulics

NOT PICTURED

TO PROFESSOR

Gerard K. Maiseki, Mathematics

Crawford rides again to raise funds for Parseghian Foundation

BY MARISSA GEBHARD, COLLEGE OF SCIENCE

Greg Crawford, dean of the College of Science, will be cycling 3,250 miles from Boston to Pebble Beach, Calif., to raise awareness and funds for research to find a cure for Niemann-Pick Type C (NPC) disease. His third cross-country ride started Monday, May 21, and concludes Friday, June 22, in time for the Parseghian Classic, a golf fundraiser at Pebble Beach Resorts. The “Road to Discovery” bicycle ride demonstrates Notre Dame’s commitment to research to find a cure or treatments for the devastating disease that took the lives of three grandchildren of former Notre Dame head football coach Ara Parseghian.

The genetic, fatal neurodegenerative disease, which prevents the body from effectively processing cholesterol, primarily strikes children, who succumb to the disease before or during adolescence. Researchers have identified its cause and made significant progress toward treatment in recent years, but there is still no cure. Last summer, Crawford and his wife, Renate, rode from Boston to Dallas, visiting families with children affected by the disease as well as other research centers across the country that also investigate NPC. This summer, Crawford will visit Notre Dame Clubs and families affected by NPC on the ride through Connecticut, New York, Ohio, Indiana, Illinois, Iowa, Nebraska, Colorado, Utah, Nevada and California.

“Notre Dame researchers are at the forefront of NPC research, and their advances in the understanding of this disease give hope to all NPC children and their families,” says Cindy Parseghian, who co-founded the Ara Parseghian Medical Research Foundation just two months after three of her four children were diagnosed with NPC. Through the Michael, Marcia and Christa Parseghian Endowment for Excellence at Notre Dame, NPC researchers at the University and other U.S. institutions collaborate with other NPC researchers, parents and clinicians in Australia, Germany, Switzerland, Brazil, France and Canada to bring together expertise in molecular biology, drug discovery, cell biology and neurology, with results from clinical studies. Visit Crawford’s blog, blogs.nd.edu/gregcrawford/, to read daily entries about his ride, the inspiring parents of children with NPC and the supportive Notre Dame family he will meet along the route.
Spring is graduation time, and the University congratulates those employees who have recently completed education programs offered through the Office of Human Resources. Learning at Work Skills Academy.

In ceremonies held on Friday, May 4, 24 employees graduated with associate degrees and 16 with technical certificates.

“Because of what Notre Dame has given me—the chance for an education, and one I would have had to struggle to obtain—I have now what I consider a career. Don’t let this moment today be your last step. Continue your education, it can only make you better.”

Learning at Work programs are designed to encourage employees’ personal and career development while strengthening the talent base for the University and the larger community. These programs are included:

- ESL (English as a Second Language), for non-native speakers who want to increase their fluency in spoken and written English.
- GED (General Education Diploma), a preparation program that gives employees who did not complete a high school education the opportunity to refresh academic skills needed to complete the GED examination.
- Ivy Tech Technical Certificate Program (TC) or Associate in Applied Science Degree, an accelerated program offered through Ivy Tech enabling regular full- and part-time employees the opportunity to earn a technical certificate in one year, or an associate degree in two years.

For information on Learning at Work Skills Academy programs and other employee learning and development opportunities, contact the askHR helpline at 631-3900 or visit hr.nd.edu/career-development/learning-development/.

New Employees

The University welcomes the following employees who began work in April:

**40 years**
- Joan M. Bradley, Office of the President Emeritus
- Shirley A. Hums, Customer Support Services

**35 years**
- John M. Grudzinski, utilities
- Mary C. Nagle, Risk Management and Safety
- Randy C. Ruchti, physics
- Donald R. Sopczynski, Custodial Services

**30 years**
- Bertha Barrozo, Custodial Services
- Julie A. DeBussy, football
- Hou T. Duong, St. Michael’s Laundry
- Umeek Gang, physics
- Jackie A. Haslett, physical education
- Dennis M. Snow, mathematics

**25 years**
- Larry D. Born, preventive maintenance
- Susan L. Brande, financial aid
- Debra R. Fox, Law Library
- Joachim Goerz, physics
- Anne E. Hayner, Kroc Institute
- Donald R. Miller, Food Service
- Vicki M. Mack, Freimann Animal Care Facility

**20 years**
- Gerard V. Bradley, Law School
- Linda S. Helfrich, Holy Cross House Food Service
- Franklin T. Mark, Mendoza College of Business
- Manuel Navarrete, Morris Inn
- Patrick J. Thornsen, Preventive Maintenance

**15 years**
- Sally A. Almason, EES—communication services
- Brian R. Anders, Landscape Services
- Robert D. Breza, management
- Shannons J. Carter, economics and econometrics
- G. Christopher Clark, Kanel Center
- Gregory A. Dlouhy, Fire Protection
- Michael D. Donovan, investment office
- Deanna K. Guimpf, softball
- Margaret S. Hnatusko, student activities
- Patricia M. James, development
- Linda S. Lange, DLC Services

**10 years**
- Vaibhav Agarwal, Procurement Services
- Margaret Boldestrey, Mendoza College of Business
- Laurel P. Cochrane, Law Library
- Juli W. Dallavis and Ronald J. Nuzi, Alliance for Catholic Education
- Brent W. Harken, genomics, disease ecology and global health
- Robert L. Jones, legal aid clinic
- Jon M. Lofius, Center for Environmental Science and Technology
- Velshonna N. Luckey, Robinson Community Learning Center
- Christy E. Miller, financial aid
- Jeremy D. Miller, Audit and Advisory Services
- John C. Nelson, Transportation Services
- Joseph Reimers, Law Library
- Donna Thompson, Academic and Administrative Services
- Lisa M. Yates, human resources

**4 years**
- Janet M. Krzesiwa and Guadalupe Mascorro, Food Services.

**Michael D. Seamon**, Office of Campus Safety
- James A. Williams, Custodial Services
- Xiaoshan Yang, East Asian languages and cultures
- Hullee K. Young, Huddle

**NEW EMPLOYEES**
Malawi Matters

Program empowers Malawians to teach others about HIV/AIDS

**B Y G E N E S T O W E , F O R N D W O R K S**

Liz Rosencrantz, assistant registrar and business manager in the Office of the Registrar, will spend three weeks in Africa this summer with Malawi Matters, a South Bend-based initiative to provide HIV/AIDS education in the country that has some 650,000 AIDS orphans. Malawi Matters grew out of connections at First Presbyterian Church in South Bend, the largest concentration of Malawians in the denomination and part of a community of more than 1,500 in the area. Rosencrantz has taught elementary students at the church for more than 20 years, and Malawi Matters founder Phyllis Wezeman, who had been the church's director of Christian education, recruited her to be an officer of the board for the charity.

Wezeman, once an adjunct Notre Dame faculty member in the Theology Department, created the book, "Through the Heart: Creative Methods of HIV and AIDS Education" as part of the training tools. Malawi Matters promotes a self-sustaining "train the trainer" education program that empowers Malawians to independently teach others about HIV and AIDS.

Rosencrantz, who manages the commencement and registrar websites, is also in charge of malawimatters.org and co-administrator of the group's Facebook page. Wezeman convinced her that her teaching experience, mostly hands-on activities and storytelling, was a perfect fit for the HIV/AIDS education. Rosencrantz will be among 10 people on a training team who will spend up to three weeks in Malawi. The all-volunteer agency will train approximately 672 key leaders from 56 churches in six of the denomination's Presbyteries. The key leaders will be equipped with training and supplies to educate thousands more of their members. Other members and associates of First Presbyterian at Notre Dame who participate in the Malawi project include Mendoza College of Business academic adviser Doug Hemphill; philosophy professor Robert Auder; Reilly Center for Science, Technology and Values Director Don Howard; professor emeritus Don Sporleder of the School of Architecture; and Kevin Dreyer, associate professor of Film, Television, and Theatre, whose wife, Indi Dieckgraefe-Dreyer of Saint Mary's College, accompanied Wezeman on her first trip to Malawi.

The not-for-profit is raising $98,435 for this year's trip to cover costs for Malawian students (not including volunteer expenses of $3,500 each). For more information or to support the organization's cause, visit malawimatters.org.
Relay for Life raises $167,585

BY GENE STOWE, FOR NDWORKS

Roberta White was lying awake one night, seeking some way to turn the frustration of watching her father’s losing battle to lung cancer into something with a positive impact, when she remembered Relay for Life.

Her mother had died two decades earlier of lung cancer, and she had been taking care of her father for five years. “I decided I wanted to put my energies into something that was more positive,” she recalls, adding that organizing Jessica Brookshire, associate director of public affairs, helped her start a team.

White, senior administrative assistant in Public Information Communication, named the team “Walking on Sunshine” to reflect the comforting connection she had long felt between her mother and rainbows, and adopted the slogan “Rallying to turn rain into rainbows.”

This year’s Relay, which included 84 teams and 1,413 participants, raised $167,585 to donate to cancer awareness and research. Five teams alone raised more than $5,000 each — the Fire Fighting Irish ($17,550); top individual fundraiser was Susan Antonovitz ($1,355); technical editor and writer in OIT’s training department; White’s team’s money was raised in hundreds of small chunks — $5 for five minutes of professional in-office massage, $5 for a carry-in soup-and-salad lunch or a sellout Chick-Fil-A special, $2 to wear jeans in the Main Building on dress-down day (although some put $20 in the jar).

Last year, she joined the planning committee and saw the fine-tuned organization that Brookshire has built in the past eight years. Brookshire was the recipient of the American Cancer Society Dedication Award in 2012. A new initiative this year, the Put Up Your Feet campaign, sold purple paper feet for $1 each for buildings to display in their windows. The feet alone raised $1,505 for this year’s Relay.

Fundraising for Relay requires both stamina and ingenuity. “People really do care and want to make a difference,” says White. “It’s just a matter of asking.”

The Notre Dame Fire Department’s “Fire Fighting Irish” Relay for Life team raised $17,500 this year—making them the top fundraising team for 2012. The team’s NDFD logo merchandise, including T-shirts (in adult and youth sizes) and sweatshirts, are available at the Hammes Notre Dame Bookstore.

Campus volunteers brighten the lives of senior citizens

BY BRITTANY COLLINS, NDWORKS

When Forestine Jackson’s dad died in April at the age of 103, she started thinking about ways to carry on his legacy.

“I was just thinking about some things that my parents used to say to us. One of the things we were raised to do was to take care of elderly people,” says Jackson, records processor in the Department of Psychology’s Adult Development and Aging lab.

“Up till my dad was 99, he was our helping take care of seniors. When you go out into the community, you find that there’s such a great need. Mostly people are helping youth. Seniors tend to be forgotten,” Jackson made a new year’s resolution to start doing something four or five times a year.

“I started out with a small group and found a low-income housing/independent living group on the west side of South Bend,” she says. “I asked if I could do something from time to time. I just send emails to friends and coworkers and say, ‘This is what we’re going to do.’”

The group, made up of people from the lab, from housekeeping and some from First Year of Studies, started at Thanksgiving by giving pumpkin pies to residents of LaVelle park Homes and William C. Ellison apartments in South Bend.

Jackson plans something monthly or on holidays, choosing simple and inexpensive gifts to make it easy for people to donate. The group gave stuffed bears and cards for Valentine’s Day, and in March sent everyone an Easter card with different Bible verses in them.

Though the group is informal, Jackson encourages others to take an hour a month and make a difference in the lives of senior citizens. She can be reached at fblake2@nd.edu.
New house south of campus for Food Services employee

BY GENE STOWE, FOR NDWORKS

For more than 20 years, Geary Locke has worked for Notre Dame, first in Food Services, then in General Services, now in the Notre Dame Conference Center in McKenna Hall. Now, a few blocks south of campus, University colleagues and others are working with Locke, building a two-story Habitat for Humanity house where his family will move this summer.

“I’m happy I can own a home,” Locke said on his first visit to the job site, in April. “It’s nice to see where I can own something and see it come together.”

Locke first applied for a Habitat house about four years ago, starting a process that involves qualifying the family’s income and providing training in financial literacy, home management and construction.

“They explain classes and how to do the plumbing and the wiring and the drywall,” Locke said. “After that you go and help another partner family and then they come and help you. That’s how everything gets started.”

Tom Coxe, volunteer care director for Habitat for Humanity of St. Joseph County, said the Northeast Neighborhood Revitalization Organization (NNRO) sold the lot on St. Peter Street to Habitat for $1, and the agency worked with NNRO officials to ensure that the design blends with the neighborhood.

Homeowners in the Habitat program provide 300 hours of “sweat equity” on their own home and others, make a down payment, and assume a 30-year interest-free mortgage for the home.

Workers hope to complete the house in late June. Locke and his wife, Mary, will move in with their daughters Ashley, an Adams High School senior, and Tamara, a junior. An older son, Geary Jr., has already moved out of the family home.

Volunteer labor comes from individuals and groups, including many from Notre Dame. “The groups that have volunteered are University Relations, University Architects Office, Continuous Process Improvement, Finance, Notre Dame Conference Center staff and the Morris Inn,” said Jeri DeCola, property manager in Asset Management. “Several individuals around campus have volunteered also.”

On the morning of the second building day for Locke’s house, workers from Mount Carmel Missionary Baptist Church helped clad the exterior walls, and by afternoon, work was progressing on the garage.

“The thing I like about this program is it doesn’t matter what church you go to,” Locke said. “They get everybody together to come and help out. I can return the favor and help somebody else get their house started.”