

It's probably too late for the polar bear, says biologist

Ecological problems not easy to solve

BY CAROL C. BRADLEY, NDWORKS

Sad to say, but it may already be too late to save the polar bear, says Gary Belovsky, professor of biology and Martin J. Gillen Director of the University of Notre Dame Environmental Research Center (UNDERC).

The polar bear is the poster child for global warming, says Belovsky, who studies population and community ecology and conservation biology. "If global warming is progressing, as most reputable scientists think, there's no place for them to go. They live on polar ice. It's disappearing."



CAROL C. BRADLEY

Belovsky

What's going to happen?

"We know polar bears can't do well living on land—they eat marine mammals," he says. "If they can't live on polar ice, do you keep a large-bodied species in a zoo? It could be

a thousand years or more before the polar ice returns."

Belovsky was involved in Notre Dame's very first Earth Day celebration as an undergraduate in the 1970s.

"The big problem then was pollution in places like Lake Erie," he recalls. The Clean Water Act of 1972 and other legislation reduced industrial and urban pollution and improved water quality. "That was an easy problem to solve. DDT was an easy problem to solve—stop using it. The problems today are much larger and more difficult."

Belovsky's research examines herbivores as large as bison and as small as grasshoppers at the National Bison Range in Montana, and tiny brine shrimp in the Great Salt Lake in Utah. Other ongoing research investigates the Puerto Rican rainforest.

On an individual level, he says, there are things we can do to help the environment—recycle, reduce consumption, and be concerned about conservation. But that doesn't solve the larger problem, which is ultimately a function of how many people the planet must support.

Belovsky likes to pose the question to his students: Do you like to eat steak? Would you like to own a fast convertible? They answer in the affirmative.

Then he points out that the problem is not so much what each of us is doing, but what we're doing multiplied by the number of people doing it. With more and more people, eventually we'll all be eating



rice and beans rather than steak and certainly not driving fast cars.

Each technological step humans have taken has made humans free to grow our numbers and separate us further from nature, Belovsky says. The more dependent we are on technology, the greater the consequences when the stool gets kicked out from under the ecosystems—by drought, famine, earthquake and other natural disasters or man-made impacts.

The human population can have unintended impacts, as Belovsky knows from his research on brine

shrimp in Utah's Great Salt Lake.

In the not-so-distant past, aquaculture was predicted to be the savior of food supply problems in the third world. Brine shrimp would feed the aquaculture industry, which in turn would provide protein for underdeveloped countries.

Today brine shrimp are an underpinning of the aquaculture industry, and the industry has grown to such an extent that the overharvesting of brine shrimp threatens migratory bird populations that depend on the shrimp as a food source. And

aquaculture doesn't produce food for underdeveloped countries, he notes. "It goes to provide cheap shrimp for American restaurants."

It may sound hopeless—but it isn't, Belovsky says. "When we try to solve a problem, we can be very successful. Whenever we've tried to save a species from extinction, we're 70 percent successful. It's a matter of the will to do it" and face the economic and lifestyle consequences.

Internet Protocol Public Address System operational

Speaker systems will give warnings in buildings and outdoors in case of emergency

BY CAROL C. BRADLEY, NDWORKS

Your attention please... your attention please. This is an emergency! The National Weather Service has issued a tornado warning for St. Joseph County...

A new Internet Protocol Public Address System is up and operation-

al on campus, says Amy Coughlin, director of administrative services.

"It will sound very much like the PA system you had in school for morning announcements. We're very excited about it. It's a very quick and effective way to communicate to the campus at large in the event of an emergency."

It's part of the campus Emergency Response Plan, which includes NDAlert, the system that sends emergency alerts via phone, computer and cable TV, Coughlin notes.

"But if you're walking across campus, you might have your cell phone in your backpack. And NDAlert doesn't reach visitors. The PA system will give very simple directions to everyone on campus at a critical time. We don't want to assume people will know what to do in case of emergency."

The innovative new system operates through existing fire alarm panels and Internet cabling, and operates from a central location, says Coughlin. Completing the project

involved cooperative efforts between many departments, including Business Operations, OIT, Student Affairs, the Notre Dame Fire Department, NDSP and risk management and safety, and has been completed nearly five months ahead of schedule and well under budget.

The first phase of the project took about a year and connected buildings to the system. "Then we started on the exterior," says Coughlin. "We wanted full coverage, and we didn't want the speakers, which are

strategically placed on the outside of most buildings, to be visible. That part of the project was completed in January."

The voice of the new emergency alert system is Dennis Brown, assistant vice president and University spokesman. Brown has scripts prepared for several different kinds of emergencies, from a fire to a bomb threat.

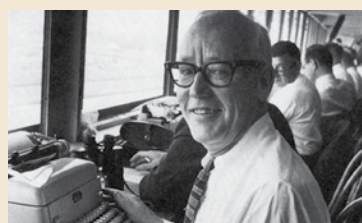
"We hope not to have to use it," Coughlin adds, "but we're fully prepared in the event that we do."

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Links of the Irish

What a difference 'The Week' makes

BY BILL SCHMITT, NDWORKS

There's never a shortage of events and opportunities at Notre Dame—nor is there a shortage of emails announcing these things.

The challenge of reading, sorting, remembering and acting on these emails often seems daunting, but soon there will be some relief from information overload.

Every Monday morning, watch your email for a one-stop planning aid called "The Week@ND." Published by the Office of Public Affairs and Communication (OPAC), it will be a concise index of information from campus communicators.

"It's a handy little summary on Monday mornings that people can take a look at and pass along to others who might be interested," says OPAC Director of Internal Communications Gail Hinchion Mancini. "It will replace many of the emails we receive throughout the week via the ND-employees listserv."

Here's what will make "The Week@ND" different, according to Mancini:

- It will be primarily a headline service about events and other advisories for the upcoming week, with items linked to pages containing more information.

- These news items will be easy to use, organized into categories such as lectures or services, and will be listed chronologically.

- Unlike all-employee listserv messages, faculty and staff member will be able to "un-subscribe" from "The Week@ND."

- Subscribers to "The Week@ND" are likely to appreciate its predictable Monday morning arrival. It's easily retrieved later for quick reference.

- A new screening process: Messages for the all-employees listserv will have a new screening process, with more specific criteria to ensure that all readers will see a general relevance in the items sent out.

In the future, listserv announcements must come from a University officer, typically addressing a required employee activity or development (such as open benefits enrollment) or supporting campus safety and security. In short, these broadcasts

will contain information that is "actionable or relevant to all or most members of the listserv," says Mancini.

Campus communicators wishing to place announcements in "The Week@ND" about their more "local" events and opportunities, likely to interest many—but not necessarily most—faculty and staff members, will be asked to submit their items to OPAC by noon Thursday of the week prior to the event.

The net result will be fewer emails that recipients deem irrelevant. "People are most likely to respond to information when it's fashioned to reach them as potential users of that information," says Mancini, so she foresees a net gain in the effectiveness of campus email in alerting and activating people.

Of course, she adds, there will continue to be an array of active listserv systems sending emails to Notre Dame employees with more specific interests—based on factors like one's affiliation with a particular department or center or institute.

Avoid antivirus scams

Malware will install itself on your computer, steal credit card information

BY MOLLY GORDON, OIT

Fake antivirus (AV) programs are a very real threat to Windows users across campus. These scams typically appear as pop-ups from an unknown or generic antivirus website or antivirus software. Their purpose is to scare users into installing a fake AV program—which is actually a virus itself.

According to David Seidl, Information Security Professional in the Office of Information Technologies, "We're seeing more of this type of malware among computer users at Notre Dame. If you see a fake AV pop-up window and try to close or click anywhere in it, the virus will install itself on your computer. Once installed, a message stating, 'Malware was found on your computer, and you must pay money to get rid of it,' will appear. The purpose of this virus is to obtain your credit card information."

One way to avoid falling for this scam is to be aware of the name of your antivirus software. The pop-up may look like it came from your anti-virus software or have a generic name like Anti-Virus 2010, but recognize that it's fake. If you encounter a fake AV pop-up, **do not** attempt to close the window using the close button in the top right corner. **Do not** click anywhere in the pop-up window. Follow these instructions:

- Press Control-Alt-Delete and select the **Task Manager**.
- Under the **Applications** tab, find your web browser—Firefox, Internet Explorer, or Safari, and select it.
- Click **End Task**.

This will force your browser to close, and will prevent the malware from attacking your computer. Immediately reboot your computer, and do a full scan with an up-to-date McAfee, Norton or other reputable antivirus tool.

To prevent fake AV from infecting your computer, always update your computer regularly. Install free McAfee antivirus and antispyware available at: secure.nd.edu/antivirus.

For questions, contact your IT support staff or the OIT Help Desk at 631-8111 or via email at oithelp@nd.edu for assistance.

NEWS BRIEFS

HESBURGH LIBRARIES OFFER PROFESSIONAL DEVELOPMENT PROGRAMS

Sessions cover managing conflict, solving problems

The Hesburgh Libraries and the Office of Human Resources have joined to present two programs with **Michael A. Roberto**, author and professor of management at Bryant University on Wednesday, May 19, in the Hesburgh Library's Carey Auditorium. Members of the campus community are welcome to attend at no charge.

At 9:30 a.m., Roberto presents "Making Better Decisions—Getting Better Results," followed by "Become an Effective Problem-Solver" at 2:30 p.m.

Roberto is the author of "Know What You Don't Know: How Great Leaders Prevent Problems Before They Happen," and "Why Great Leaders Don't Take Yes for an Answer: Managing for Conflict and Consensus."

RSVP to www3.nd.edu/~fboze/pdc/index.shtml or enroll online through Endeavor. After login, filter for the name of the session you wish to attend.

CYBERINFRASTRUCTURE DAYS

Join the **Center for Research Computing** for a two-day conference on cyberinfrastructure (CI), Thursday and Friday, April 29 and 30. There is no fee for the conference, which is open to all and takes place in Jordan Auditorium in the Mendoza College of Business. Participants will explore ways to use CI in the humanities, arts, social sciences, science and engineering. For more information or to register, visit ci.nd.edu.

Eddy Street Commons hotel open for football season

PHOTO PROVIDED



Fairfield Inn

Reservations already being accepted

BY COLLEEN O'CONNOR FOR NDWORKS

Need rooms for family and friends this fall?

Fairfield Inn and Suites, currently under construction just across Angela Boulevard in Eddy Street Commons, will open by mid-June and is taking reservations now.

A joint venture between Kite Realty Group of Indianapolis, the master developer of Eddy Street Commons, and White Lodging of Merrillville, a Marriott franchisee, Fairfield Inn and Suites is a limited-service hotel offering 119 guest rooms and amenities including complimentary hot breakfast, free parking and complimentary high-speed wired and wireless Internet access. It is designed

with a large percentage of suites, a first-floor lounge area with big-screen TVs for football fans and a small indoor swimming pool.

"Eddy Street Commons was designed from the beginning to be a mixed-use neighborhood. We currently have retail, office and residential uses in place. The new hotel will add a hospitality component, a much-desired element," according to Greg Hakanen, director of asset management and real estate development for Notre Dame.

"White Lodging is very excited to be part of the University community and is looking forward to a long-standing relationship," said Tina Laskaris, regional vice president for White Lodging.

For reservations at Fairfield Inn and Suites, call 574-234-5510 or go online to Marriott.com.



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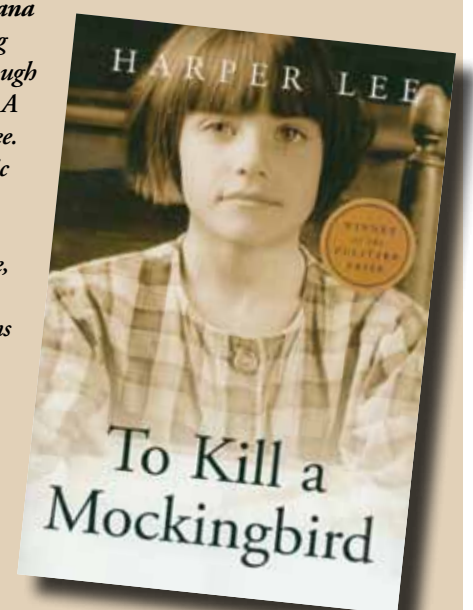
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The deadline for stories is 10 business days before the following 2009-2010 publication dates: July 23, Aug. 13, Aug. 28, Sept. 10, Sept. 24, Oct. 15, Nov. 5, Nov. 19, Dec. 10, Jan. 7, Jan. 28, Feb. 11, Feb. 25, March 18, April 8, April 22, May 6, May 20, and June 17.

TO KILL A MOCKINGBIRD

The *One Book, One Michiana* initiative is designed to bring the community together through reading one book—"To Kill a Mockingbird," by Harper Lee. The St. Joseph County Public Library has partnered with other groups and organizations, including Notre Dame, IUSB and WNIT, to offer programming and discussions about the book and the culture and society of the times in which the book was set. Activities continue through Tuesday, May 11. For a complete list of events, visit sjcpl.org/onebook.



Geddes Hall receives LEED Gold Certification

Notre Dame's first certified building includes low-flow plumbing fixtures and water-saving landscaping

NDWORKS STAFF WRITER

The University's Geddes Hall has received LEED Gold Certification from the United States Green Building Council (USGBC).

The 65,500-square-foot home of Notre Dame's Center for Social Concerns and Institute for Church Life, Geddes Hall achieved all 42 LEED NC 2.2 credits originally sought at the outset of the building's design.

The building opened in August 2009 and includes many sustainable design and construction features. A variety of materials made from both rapidly renewable materials and pre- and post-consumer recycled content were used throughout the building,

design minimizes grassed lawns while employing an irrigation system with new control technology and drip irrigation, techniques that reduced irrigation water consumption by 58 percent.

Thirty-one percent of the building materials were manufactured within a 500-mile radius, thereby reducing the impact of transportation of building materials to the job site while supporting the regional economy. Showers were also provided in the building to promote bicycle commuting to the building. Additionally, the building is located on a previously developed campus site within a one-half-mile radius of several amenities such as banking, restaurants, laundry and public transportation routes.

Geddes Hall is the first building to be LEED certified at Notre Dame. Other completed buildings pending final certification review

Help save the environment by recycling hazardous household waste

BY GENE STOWE, FOR NDWORKS

The Solid Waste Management District of St. Joseph County operates a **Household Hazardous Waste** collection facility at 1105 E. Fifth St. in Mishawaka. The facility, which collects non-business waste in many cases for free, operates 8:30 a.m. to 3:30 p.m. Tuesday through Saturday.



The center accepts waste oils and lubricants; paints and solvents; pesticides and herbicides; rodent and insect poisons; waste fuels such as charcoal lighter, fuel oil and gasoline; aerosol cans; household batteries; corrosives such as lye, acid and drain killer; mercury in thermostats, switches, relays and vapor lamps; and tires (with a \$1 fee per tire).

The facility does not accept building materials, sharp medical instruments or appliances, but it does accept obsolete electronics.

Small items such as calculators, cameras, game controls, palm organizers, portable CD players, radios and telephone answering machines are free. There is a \$12 fee for large items such as camcorders, desktop PCs and accessories, scanners, fax machines, electronic scales, speakers, televisions and video game players.

For more information, visit swmd.org or call 574-235-9971.



Geddes Hall

MATT CASHORE

including structural steel, insulation, bamboo and cork flooring, carpeting, ceiling tiles, concrete and gypsum drywall. Ninety-seven percent of construction waste was diverted from landfills, including the waste from the demolition the former home of the Center for Social Concerns, previously located on the same site.

The use of low-flow plumbing fixtures reduced water consumption by 45 percent; the landscape

by the USGBC include Ryan Hall, Stinson-Remick Hall, Purcell Pavilion and Innovation Park at Notre Dame. Buildings currently being designed that will eventually seek LEED certification at the conclusion of their construction include the new ice arena facilities, the Stayer Center for Executive Education and new facilities for the Alliance for Catholic Education.

Procurement Systems saves thousands

Through negotiation, going green, office seizes opportunities

BY GENE STOWE, FOR NDWORKS

Alert planning and a strong commitment to sustainability positioned Notre Dame to save hundreds of thousands of dollars in procurement costs and to expand its green practices in the midst of a national economic downturn.

Executive Vice President John Affleck-Graves commissioned a consultant's study that uncovered potential savings in five areas: travel, scientific supplies, custodial and MRO (maintenance, repair and operations) supplies, IT hardware and office equipment.

"They told us, 'You've got opportunities across all five areas,'" says Rob Kelly, director of Procurement Services. "The one area of opportunity that really became apparent was travel. It was the first time the University had looked at all travel spending in great detail."

A full-fledged, centrally managed travel program will roll out later this year and is anticipated to generate significant savings while making arrangements and reimbursement more convenient for users.

In other areas, implementing the study's proposals, the office:

- Saved more than \$500,000 on computers last year with a newly negotiated Lenovo computer contract and a university computer purchase policy.
- Contracted with a new preferred provider of scientific supplies, VWR International, at savings of nearly \$200,000 and additional value-added services, after issuing a request for proposals and taking bids.
- Negotiated immediate savings of \$41,000 with the janitorial paper products supplier, Unisource, and another \$37,000 with the MRO supplier, Grainger.
- Deployed more than 250 copiers and printers in a Xerox fleet deployment plan with projected savings of more than \$100,000 a year.

The office also plans to increase the use of environmentally friendly janitorial paper products across campus, part of a growing attention to greener operations in partnership with the Office of Sustainability.

"We've had a couple of nice wins on the sustainability front," Kelly says. "There can be some great economic wins as well."

The office negotiated with Office Depot to reverse the pricing for printer and copier paper, where reams with 30 percent recycled content, boxed with a green top, typically cost more than standard red cases.

"They worked with us and we got it to where they dropped the price of the green top case below the price of the red top," Kelly says, with the recycled-content cases now \$1 less than standard.

"Eighty-three percent of the paper volume is now green top"—totaling several thousand cases a year.

Kelly, a Notre Dame undergraduate and MBA alumnus, started as a business manager in the procurement department in July 2006 and became director the next year when the operation moved to the finance division.

The office has a staff of 15, including eight headed by Nancy Fulcher, manager of Strategic Sourcing.

"In our world of procurement, we're never done negotiating and analyzing our contracts," Fulcher says. "Supplier relationship management is a never-ending process."

Vaibhav Agarwal is director of Procurement Systems, with two employees focused on systems management, data reporting and analysis, and training and communication, among other things, and coordinating projects with Accounts Payable and OIT.

The final two staff members compose the contracts team. They are devoted to developing and administering contracts while working closely with the procurement specialists and the University's general counsel.

"We've been able to gain economies and efficiencies over the years," Kelly says. "We knew that we had an impending recession and we needed to get out on the front end of it."

University adopts records management and archives policy

Keep the right records for the right length of time

BY KATIE SCANLAN, ARCHIVES

With tasks to complete, deadlines to meet and goals to achieve, it is very easy to postpone proper filing. As a result, University employees can spend a lot of time trying to find information when they need it. Across campus, some University records are kept too long and others are not kept long enough. The cost can be much greater than simply lost time. In fact, poor recordkeeping practices can cause major problems for the University and can even lead to violations of state and federal law.

The University Archives can simplify and improve any office's recordkeeping practices. In accor-

dance with the University's Records Management and Archives Policy (policy.nd.edu/policy_files/RecordsManagementandArchives-Policy.pdf) and under the direction of the Office of General Counsel, the University Archives works to ensure that all University records are handled appropriately from their creation to their ultimate disposition.

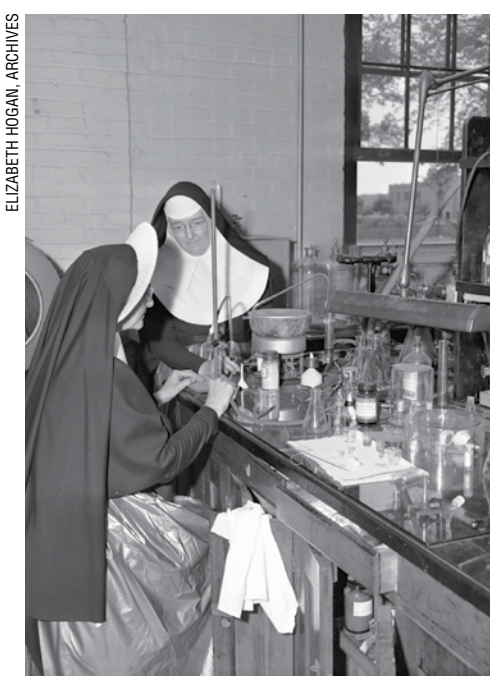
The Archives can help your office make sure that active records are readily available for business use and that inactive records are properly destroyed or transferred to the University Archives.

The Archives website now includes an expanded records management section. Visit archives.nd.edu/records to learn about Notre Dame's records management program, watch an online training program and view

the University's general records retention schedules.

Records retention schedules instruct offices how to maintain a specific series of records throughout its life cycle according to the legal, fiscal, administrative and historical needs of the University. General schedules apply to all University offices and relate to records that are commonly encountered throughout the University, including financial receipts, annual reports and much more.

The Archives also works with individual University offices to develop office-specific records retention



ELIZABETH HOGAN, ARCHIVES

schedules. These schedules apply to a particular office and include records that are unique to that office. Records retention schedules enable all University offices to manage records more efficiently.

The University Archives is here to encourage sound recordkeeping practices throughout the University and to help offices comply with the Records Management and Archives Policy. Contact the University Archives at 631-6448 for more information.

A 1950s-era photograph of nuns in a summer school chemistry class is an example of the many historic photographs and records held in the University Archives.

Center for Flow Physics advances laser communications

Moving technology forward

BY GENE STOWE, FOR NDWORKS

The Center for Flow Physics and Control's Aero-Optics project recently conducted two flight tests of a laser system aimed at, among other things, developing communication capabilities for airplanes in flight.

The flights demonstrated that the system does not interfere with the plane's ability to fly and that a laser from one plane in flight, using a tracking mechanism, can be held at a fixed point on another plane in flight.

Lasers offer wide-broadband, relatively inexpensive, secure point-to-point contact. Applications include video feeds from unmanned flights over battlefields or disaster areas, communication between pilots and other planes or ground stations, and high-speed Internet access for commercial passengers.

More test flights will begin in the spring, after more wind tunnel tests, says Mike Zenk, operations manager for the project that started in August 2007 with a five-year, \$5.6 million grant from the Air Force. Eric Jumper, a professor of aerospace and mechanical engineering, is the lead investigator.

The project leases flight time on Cessna Citations from Northern Air of Grand Rapids for the tests.

"We're spending about \$5,000 an hour for two planes to do this work," Zenk says. "The Air Force could spend more than \$100 million for one test flight. We're saving the government a lot of money by doing all this testing work. We are also helping to move the technology forward."

After extensive computer modeling and wind tunnel testing across 2½ years, the group developed a turret that attaches to the side of an airplane in order to receive the laser sent from another plane.

The first flight test checked the effect of the turret, a 12-inch-diameter hemisphere on a cylinder, on the plane's ability to fly.

"That went very well," Zenk says. "We had no problem with the airplane flying. We've eliminated a lot of the risks of the program by proving that the airplane flies well with the turret 'attached' to the side."

The second test flight, with two planes, demonstrated that the laser tracking mechanism can lock the laser onto a desired point on another plane in flight.

The research, in collaboration with the Air Force Institution of Technology, which made the laser system, and Boeing, which built the turret hardware, involves extensive tests of how turbulence affects laser energy. Varying air densities can refract lasers like prisms refract sunlight.

"We have a lot more wind tunnel testing to go and obviously a lot more airplane testing," Zenk says. "Later this spring we will be able to accomplish the next big step for the research effort by installing and flying the complete system on both airplanes."

The project is saving millions of dollars compared to the military's doing the same thing with more sophisticated equipment. Notre Dame will have the capability to test other things on these airplanes, too, and there are very few universities in the country that have flight test capability.



Above, Bruce Robinson, Northern Air chief of maintenance, discusses the turret installation with two of the pilots. At right, the AAOL (Airborne Aero-Optics Lab) aircraft approximately 50 meters from the "source" laser aircraft flies in formation at 15,000 feet. The green dot on the window shows where the laser is "test tracking" the AAOL aircraft.



PHOTOS: DAVID CAVALLERI

When cures can kill

Treatments for cancer can be as deadly as the disease

BY NINA WELDING, COLLEGE OF ENGINEERING

Since 1991, when they were first handed out by the Susan G. Komen Foundation during its New York City Race for the Cure®, pink ribbons have become the symbol for breast cancer awareness. And why not? In the United States alone, approximately 200,000 women are diagnosed with breast cancer and more than 40,000 die from the disease annually. Men are also afflicted; each year close to 1,700 men are diagnosed and 450 die from the disease. Almost everyone knows someone who has had breast cancer.

One in every three individuals with breast cancer is HER2 (Human Epidermal growth factor Receptor 2) positive. This means they have a gene mutation that encourages tumors to grow and spread more quickly than non-HER2 cancers.

The good news is that early detection and treatment can save lives. The bad news is that some of the treatments for HER2-positive cancer—such as the use of the antibody Trastuzumab—can be just as deadly. This is something Basar Bilgicer, assistant professor of chemical and biomolecular engineering, and Tanyel Kiziltepe, research assistant profes-

sor in the Advanced Diagnostics and Therapeutics (AD&T) initiative, are working to address.

Established in 2008, the AD&T at Notre Dame is an interdisciplinary research initiative focused on developing diagnostic and therapeutic technologies for commercialization that target significant concerns in society and the medical community.

Trastuzumab, also known as Herceptin®, targets and kills the HER2 cells. That's what it's made for. It is often used in conjunction with chemotherapy and has been shown to reduce cancer recurrence up to 50 percent. It can, however, also produce congestive heart failure. The reason sounds simple: The receptor molecules in breast cancer cells that attract the Trastuzumab (so that it can attach to the cancer cells and kill them) are the same molecules located around heart tissue.

"We understand the issues with

this particular antibody, but understanding the problem is only the first step in the research process. There are many other factors to consider," says Kiziltepe, who has recently received two grants from the Indiana Clinical and Translational Sciences Institute to study the biophysical aspects

of the antibody's selectivity. "In the AD&T we are working to improve the selectivity of Trastuzumab, so that when it is in the body it can better identify HER2 cancer cells as opposed to healthy ones that have the same receptors."

With expertise in bioengineering, chemistry, medical oncology and targeted nanoparticle drug delivery, Kiziltepe and Bilgicer are leading a team of graduate and undergraduate students working on the selectivity challenges to make the antibody safer and more effective. Their initial results will be tested first in vitro and then in animal studies.



Kiziltepe



PRIESTS ORDAINED

The Congregation of Holy Cross welcomed two new priests on Saturday, April 10. Bishop Daniel R. Jenky, C.S.C., (center) ordained Rev. Kevin G. Grove, C.S.C., (at right) and Rev. Gerard J. Olinger, C.S.C., (at left) in a liturgy in the Basilica of the Sacred Heart.

Local insights and impacts

Ganey grants support faculty and students in research, learning and service

BY BILL SCHMITT, NDWORKS

The Center for Social Concerns has honored **Stuart Greene**, associate dean for undergraduate studies, with its annual award recognizing faculty research that engaged Notre Dame students in collaborations affecting real community issues in South Bend.

The 2010 Rodney F. Ganey, Ph.D., Faculty Community-Based Research Award went to Greene for his project, "No Parent Left Behind," a research initiative that sprang from a local principal's own concerns about parents of local schoolkids and yielded eye-opening results for him and his own students.

Greene's award-winning project began two years ago when Darice Austin-Phillips, principal of Perley Primary Fine Arts Academy, voiced concern about inadequate parental involvement in schooling. Greene joined forces with Austin-Phillips

and with Joyce Long, facilitator of the citywide Education Collaborative Group, to connect with parents in local schools to assess this perceived problem of involvement. The lead researchers worked closely with Notre Dame students in the Education, Schooling and Society minor in the College of Arts and Letters.

Their research questioned prevailing models and found that parents in minority and low-income communities are "actually doing a lot," says Greene. The research, presented at the National Council of Teachers of English conference and published in a journal, *The Urban Review*, opens the way for new dialogues between parents and teachers and administrators who don't realize the parents' strengths and needs for support.

The award, which carries a \$5,000 cash prize, was bestowed during an April 7 event at which the Center also awarded three Rodney F. Ganey, Ph.D., Collaborative Community-Based Research Mini-Grants. These aim to foster faculty-student-community partnerships that have an impact in the South Bend area, reflect the

investment of expertise by faculty and community members alike, and promote civic responsibility among students by virtue of their community-based learning.

The mini-grants, each providing \$7,000 to support research projects that involve faculty, students and community organization officials, went to partnerships focused on three projects: emergency response systems for the St. Joseph County Chapter of the American Red Cross, health disparities in St. Joseph County, probing "why black women don't breastfeed," and the use of interactive robots to scaffold social skills for children with autism.

Also, three faculty members received \$2,500 summer grants to help them design or redesign courses that will incorporate social concerns through community-based learning that involves service and/or non-profit research: Sociology professor Kraig Beyerlein will explore the links between religion and social activism; anthropology professor Cynthia Mahmood will probe human rights concerns in immigrant communities; and history graduate student Charles T. Strauss will use a first-year composition course to explore the relationship between public discourse and the various kinds of built spaces in cities.



Greene

MATT CASHORE

Immigration Services going paperless

Emphasis is on scanning and saving current files

BY GENE STOWE, FOR NDWORKS

This is how much paper Immigration Services Office (ISO) will not be using any more: an average of 70 documents (with up to 300 in some cases) for each of 825 international students, with new copy for any detail change.

"We've got quite a few files, and that's just the active students," says international student adviser Laura Gerth. "Our office is responsible for the paperwork for all the international students who come in with a visa. We have to keep copies of pretty much all their immigration documents. We also keep files for students going back five years."

The office, four employees housed in the Main Building and part of International Student Services and Activities, was running out of space for filing cabinets when a government initiative prompted the ISO to locate cyberspace for these records.

"The government is going paperless for their student immigration process," Gerth explains, adding that the change, twice delayed this year, was recently rescheduled for next year. "We have an electronic database that connects directly to the government system."

Officials, who started planning the transition last July, reviewed systems at IU South Bend, Western Kentucky and Purdue before they chose hardware and software for the program.

ISO employees have been converting paper to digital files since before Christmas.

"The biggest push is right now—getting our current active files scanned in and saved in the system," she says. "We've been chipping away at this for a while and we're on the letter D," with L, X and Z, the major international initials, yet to come.

Ongoing use will likely involve electronic forms, such as fillable PDF, for students. Some 200 to 300 new international students typically arrive in the fall, with others in the spring and summer.

"That will be the other high volume time," Gerth says. "Our office has to physically see the students in order to report them to the government." Graduate students account for 70 percent of the international students.

The electronic files, indexed by name and visa expiration date, will allow different staff members to view the information at the same time. The technology also will make storage permanent—rather than five years in the office, five years in archives—as well as saving space and trees.

"We're very excited," Gerth says. "It's a big step for us."

Staff Advisory Council a pipeline between administration and staff

BY CAROL C. BRADLEY, NDWORKS

"We want people to know who we are and what we do," says Patty Smith, an administrative assistant in the Office of Development who also serves as chair of the Staff Advisory Council (SAC). "I like to think of SAC as the voice for non-exempt employees. Although we don't set policy, we do have an influence."

The group was instrumental in the creation of a discount meal plan for staff in the dining halls; based on a SAC recommendation, speed bumps were placed on Holy Cross Drive near the guard station to ensure pedestrian safety.

SAC members are elected to two-year terms and represent staff from every area of campus. The group serves as a pipeline of information between the administration and the staff, collecting ideas and thoughts to help advise on topics such as benefits and parking. The group also holds fundraisers for groups such as Relay for Life.

The group meets from 1 to 3 p.m. on the second Thursday of every month in LaFortune's Notre Dame Room. SAC is seeking representatives for several areas, including Landscape Services, and District 15, which includes the Nanovic Institute, the Center for Ethics and Culture and the Career Center. For more information visit nd.edu/~staffcou/.



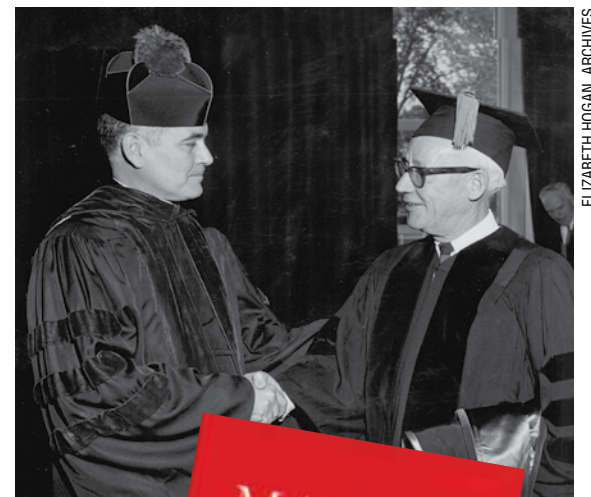
Smith

CAROL C. BRADLEY

Red Smith honored with lecture, book



Above, from left, American Studies professor Robert Schmuhl, sportswriter and commentator Frank Deford and Cappy Gagnon, manager of event security for the NDSP. On Dec. 8, 1968, Gagnon, then a young student assistant in the Office of Sports Information, was assigned to assist a writer from *Sports Illustrated*—Frank Deford, who was covering the basketball game against Michigan State. Notre Dame, coached by Johnny Jordan, won the game.



ELIZABETH HOGAN, ARCHIVES

Above right, Rev. Theodore M. Hesburgh, C.S.C., presented Red Smith with an honorary degree at the 1968 Commencement. At the 2010 Red Smith lecture, John P. McMeel '57, publisher of "Making Words Dance," presented Father Hesburgh with a copy of a new book honoring Red Smith.

BY CAROL C. BRADLEY, NDWORKS

Sportswriter and NPR commentator Frank Deford delivered the 2010 Red Smith Lecture in Journalism on April 14, introduced by American Studies professor Robert Schmuhl.

Schmuhl, the Walter H. Annenberg-Edmund P. Joyce Professor of American Studies and Journalism, has recently edited a book, "Making Words Dance: Reflections on Red Smith, Journalism and Writing," featuring 15 lectures by some of America's most noted journalists and writers given as part of the lecture series honoring legendary sports columnist and Notre Dame graduate

Walter Wellesley "Red" Smith, Class of 1927.

"For a university, it is commonplace for conferences to produce books. It's not that common for a lecture series spanning a quarter-century to produce a book," says Schmuhl. "This is not only a volume that honors Red Smith, but it also provides a chronicle of how journalism has changed the past 25 years."

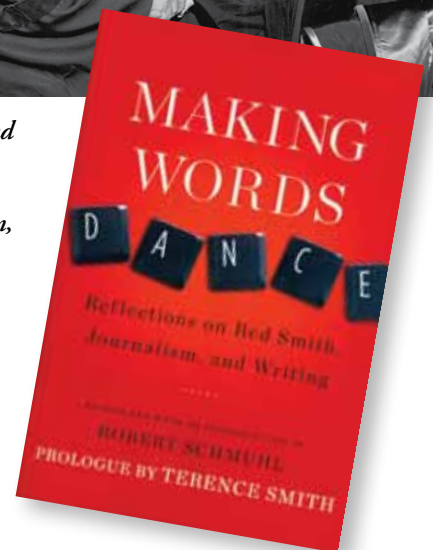
President Emeritus Rev. Theodore M. Hesburgh, C.S.C., who conferred an honorary doctorate on Red Smith at Commencement ceremonies in 1968, attended Deford's lecture. The book is dedicated to Father Hesburgh, and he was presented a copy of Schmuhl's

book by John P. McMeel '57, president and chairman of Andrews McMeel Universal, publishers of the volume.

The collected Red Smith lectures offer assessments of journalism and writing by many leading figures in journalism, including Ted Koppel, Frank McCourt, Jim Lehrer, Judy Woodruff, David Remnick, James Reston and Tim Russert. The volume also includes 16 articles and columns by Red Smith, an introduction by Schmuhl (founder of the lecture series) and a prologue by Terence Smith, Red Smith's son, who's also a Notre Dame

alumnus and noted journalist.

"Red Smith was the best at what he did and earned almost every award in journalism," says Schmuhl. "He emphasized the written word, and that is something we continue to stress in the classroom today, even with the tremendous changes in media technologies. To stand out in contemporary journalism, good writing becomes even more important."



The 'L' Word

New labels indicate healthy, low-fat choices

BY AIM BENNETT, FOR NDWORKS

In an effort to help consumers make more healthful and nutritious food choices, Notre Dame Food Services has added labels on many of its North and South Dining Hall and retail unit selections.

The newest is "L", indicating lower fat, lower calorie and lower sodium choices. The letter designates entrees that have 10 grams of fat or fewer, 500 calories or fewer, and 1,000 milligrams of sodium or fewer, such as Legend's Grilled Tilapia Taco, South Bend Grilled Chicken and Beachcomber Salad.

Items designated "V" contain no meat or fish, and "GF" items are prepared with gluten-free ingredients. Other labels include "H" for healthful options—foods prepared using healthy techniques and that include less fat or calories and more vitamins, nutrients and positive health influences.

"We introduced the 'L' label in August of 2009, and the other labels have been in place for a few years," says Jocie Antonelli, Notre Dame's manager of nutrition and safety. "We know we need to be making a better effort in overall health and wellness issues. Our goal is to help people make better decisions when eating a meal on campus."

Feedback has been positive. "Customers appreciate not having to make assumptions about what they are eat-

ing," she says. "I've had many people tell me that in looking over menus or food choices, they immediately search for the 'H' and 'L' labels first, as their principle gauge for decision making."

Legend's food service manager, Giuseppe Macerata, says his customers appreciate the guide. "We get a lot of positive feedback from our customers about our light, healthy and vegetarian labeling. It's not something that you see frequently in chain restaurants."

Labels you won't find anytime soon are specific allergy and calorie listings. Says Antonelli, "We deal with thousands of recipes and distributors. We are so big that it would be too risky to try and label items free of dairy, egg or other popular allergens."

Gluten-free is currently the only allergy label, and only in the dining halls. "But we may soon expand the 'GF' label to the retail units, as we have an expanding list of students, staff and customers that require gluten-free diets."

Calorie counts aren't listed either, she notes, "out of respect for those that struggle with eating issues. Calorie information is available at our website, but that's not the perspective we want to provide them with when they are eating."

Antonelli, a registered dietician in her 14th year at Notre Dame, hopes the informative labels will result in a happier, healthier campus. "We want to show faculty, staff and students that you can take these criteria and make delicious, filling, wholesome meals."

Making the leap to a smart phone

Brands, options have evolved

BY MOLLY GORDON, OIT

A "smartphone" is an electronic hand-held device that combines the functionality of a mobile phone, a personal digital assistant (PDA), a music player, a camera and, increasingly, software programs for a wide variety of additional uses. For many of us, smartphones play such a central role in our daily lives that we can't remember when we didn't have them. Even as you're reading this, you may have your smartphone within reach, whether it's a BlackBerry, iPhone, Pre or Android, or one of a number of alternatives with varying degrees of sophistication and functionality. Other people have yet to make the leap to this new technology.

In reality, smartphones are not "new" technology—it may surprise you to learn that versions of a smartphone have been around for 16 years. As they evolved, they became lighter, cheaper and increasingly full-featured. The first smartphone was an IBM Simon, introduced in 1994 by BellSouth. The Simon combined a PDA and a cell phone and featured a monochrome touch-screen, but it weighed more than 17 ounces and cost \$900. It was followed by other smartphones, but they remained expensive and relatively heavy.

The first phone using the Palm operating system—popularized by the

Palm Pilot PDA—debuted in 2001, weighing slightly less than 8 ounces and costing about \$500. Shortly thereafter, two former founders of Palm released the Handspring Treo, with more memory and a full keyboard and weighing only about 5 ounces.

2002 brought the first BlackBerry and launched our "always connected" lifestyle, adding mobile phone functionality to its superior always-on email and PDA capabilities—but it didn't look much like today's BlackBerry. The Palm Treo with a color screen followed quickly, with more memory and a lower price, and then the Nokia N70, with a camera, an MP3 music player and a slot for a memory card. The \$150 BlackBerry Pearl arrived in 2006, only 2 inches wide and weighing only 3 ounces, but including a camera, the ability to play audio and video, and a tiny keypad.

A significant step in the smartphone evolution came in 2007 with the debut of Apple's iPhone, featuring a touch-screen, WiFi, mobile Web browsing, a camera, iPod and YouTube, and a wealth of native and third-party software applications. The 3G iPhone released last summer, with Exchange mail and calendar support, has overtaken the BlackBerry for business use, according to InfoWorld. Finally, the Palm Pre was launched in 2009, and features both a touch-screen and a QWERTY keyboard and has 1,500 applications and counting.

If you are ready to make the leap to a smartphone and are unsure which one to choose, you can find comparisons of current smartphones, with prices, expert and user reviews, specifications and features, screenshots, a video buying guide, and links to smartphone vendors at Top Ten REVIEWS' website: cell-phones.toptenreviews.com/smartphones/. To configure your smartphone to access ND services, visit oit.nd.edu/exchange/smartphone_setup.shtml.

SERVICE ANNIVERSARIES

The University congratulates the following employees who celebrate significant anniversaries in April, including 30-year employees **Martha Anton**, athletic concessions, and **Sandra J. Sass**, biological sciences.



Anton



Sass

25 years

Rosalie Jeanne Davids, chemical and biomolecular engineering
Sharon L. Struck, operations and engineering

20 years

Chad W. German and **David M. Mastic**, customer support services
Anne M. Kolaczyk, project and consulting services
Donna M. Snyder, development

15 years

Therese C. Bauters, Hesburgh Libraries
Charlotte M. Bostic, health services
Anita L. Garner, Joyce Center
Jeffrey M. Guerra, utilities
Tracy A. Mattix, Office of the President
Judith A. Morrow, St. Michael's Laundry
Donald J. Nemeth, security
Scherry D. Roberts, Huddle
Robert D. Thomson, bookstore

10 years

Alyssia J. Coates, TRIO programs
Barbara J. Finch, Integrated Communication Services
Gwen Hagey-Shirk, customer support services
Dan K. Marmion, Hesburgh Libraries
Emily J. McKnight, University Press

'The Shirt' 2010 on sale April 23



Head football coach **Brian Kelly** will be the featured speaker at the annual kickoff celebration and unveiling ceremony for The Shirt 2010, to be held from 4 to 7 p.m. Friday, April 23, at the Hammes Notre Dame Bookstore. Shirts will be available for purchase immediately after the 5:45 p.m. unveiling.

More than 120,000 shirts were sold in last year's \$500,000 campaign. The project has raised more than \$6 million for student organizations and to aid students facing extraordinary medical conditions.

The Shirt again will sell for \$15, and a limited number will be available at the bookstore beginning April 23 in conjunction with the Blue-Gold Game on Saturday, April 24.

More information is available at theshirt.nd.edu.



Gallegos has built a village of the bookstore's "Irish Village" models in her office.

STAFF SPOTLIGHT—ELMA GALLEGOS

Elma Gallegos, custodial supervisor in building services, is thinking about retiring this summer, after nearly 41 years on the job—a long time working somewhere, she allows. "I've been blessed. There is good and bad in any job, just like a marriage. You take the bad with the good."

Gallegos has worked in several different positions over the years,

including housekeeping in Stanford Hall in the days when they still cleaned students' rooms. First she was made assistant to a supervisor, later becoming a supervisor herself.

"I know I can help my staff do better because I know all the little details," she says. "It comes from knowing the job."

During her years here, Gallegos has known three presidents of Notre

Dame. In her office she has signed photographs from each, including two from Rev. Theodore M. Hesburgh, C.S.C., one in English and the other in Spanish—and one from Lou Holtz as well. "I've seen a lot of change," she says.

When she first started working at Notre Dame, Gallegos worked in St. Michael's Laundry, which at the time was located near the Grotto.

When she would walk past the Main Building to catch the bus on snowy days, she says, "I used to feel like I was in heaven. The University is a great place to work. I've given a lot of time, but the University has given a lot to me. And I will always appreciate it. This is my family."



Gallegos

37TH ANNUAL FISCHOFF NATIONAL CHAMBER MUSIC COMPETITION

Event draws young musicians from across the country and around the world

BY CAROL C. BRADLEY, NDWORKS

The 37th annual **Fischoff National Chamber Music Competition** takes place Friday, May 7, through Sunday, May 9, in the DeBartolo Performing Arts Center.

During the competition, says Ann Divine, Fischoff executive director, people are welcome to come and go and listen to the performances. "You can just drop in for 15 minutes or half an hour," she says. "We'd love to see you."

The event, founded by music educators who wanted to see students in the community and across the nation challenged by chamber music, this year includes 130 entries and 181 musicians from 19 states and 16 countries including Belarus, New Zealand, China, Israel and Saudi Arabia.

Opening rounds begin with winds from 9 to 11 a.m. on Friday, May 7, and continue through junior and senior finals on Sunday, May 9. All competition events are free and open to the public, with the exception of the awards and Grand Prize Concert, 3:30 p.m. Sunday, May 9. Tickets for the event are \$8 for faculty, staff and senior citizens, \$5 for students. Purchase tickets through the performing arts center ticket office at 631-2800 or visit performingarts.nd.edu.

On Friday, May 7, the Hammes Notre Dame Bookstore will hold a benefit for the Fischoff, with a percentage of the day's sales going to support the competition.

Two lunchtime soirees for the Notre Dame family will take place from 11:30 to noon (winds) and 12:30 to 1 p.m. (strings) on the second floor of the Main Building. Refreshments will be served between the concerts.

For more information and a complete schedule of events, visit fischoff.org or call 631-2903.

JOSEF SAMUEL



Quartet Danaë, 2009 Bronze Medal winner, Junior Division

Upcoming Events

ART

A Selection of Recent Photography Acquisitions

May 9 through June 20, Snite Museum of Art, Scholz Family Works on Paper Gallery

A small selection of recent additions to the museum's photography collection includes work by Mexican photographer and recent guest professor Antonio Turok, Brazilian-American artist Vik Muniz and photographs of tattooed people by Jeff Crisman.

MUSIC

Unless otherwise noted, all performances take place in the DeBartolo Performing Arts Center. For more information or to purchase tickets, visit performingarts.nd.edu or call the ticket office, 631-2800.

To make reservations for free but ticketed events, please call the ticket office. Ticket prices are for faculty

and staff, senior citizens and students of all ages.

University of Notre Dame Jazz Bands and New Orleans Brass Band

Presented by the Department of Music

7 p.m. Tuesday, April 27, Leighton Concert Hall

Notre Dame Jazz Bands 1 and 2 perform a wide variety of styles, from Duke Ellington classics to Pat Metheny and student composer David Condon; the Brass Band performs New Orleans music from traditional to hip-hop. Free but ticketed

Notre Dame Collegium Musicum Spring Concert

Presented by the Department of Music

7 and 8:30 p.m. Wednesday, April 28, Reyes Organ and Choral Hall

Renaissance and Baroque sacred music \$3/\$3/\$3

The Metropolitan Opera Live in HD: Armida

1 p.m. Saturday, May 1, and 1 p.m.

Sunday, May 2, Browning Cinema
Rossini's story of a sorceress who enraptures men in her island prison, with Renée Fleming in the title role opposite six tenors. \$22/\$15

Notre Dame Glee Club Commencement Concert

Presented by the Department of Music

9 p.m. Saturday, May 15, Leighton Concert Hall

The Glee Club's annual Commencement weekend concert, featuring sacred and secular classical choral music, folk songs, spirituals and Notre Dame school songs. \$8/\$6/\$3

FILM

Unless otherwise noted, films are screened in the Browning Cinema, DeBartolo Center for the Performing Arts. Tickets are \$5 for faculty and staff, \$4 for seniors and \$3 for students. Contact the ticket office, 631-2800, to make reservations for free but ticketed events.

Angelus Film Festival at Notre Dame (2010)

7 p.m. Saturday, May 1

The Angelus Student Film Festival honors future filmmakers as they explore and create works that respect the dignity of the human person. Free but ticketed

CAMPUS LECTURES AND EVENTS

Andres Montoya Poetry Prize Reading

7 to 9 p.m. Thursday, April 29, Eck Visitors' Center Auditorium

Readers Paul Martinez Pompa, 2008 winner, and Martin Espada, final judge. Free, public welcome

Center for Social Concerns Hospitality Lunch

Noon to 1:30 p.m. Friday, April 30, Geddes Hall

Prayer service at noon in the chapel, followed by lunch in the coffeehouse. Open to all faculty, staff and visitors. The theme will focus on the corporal work of mercy of clothing the naked,

with proceeds benefiting the Farm of the Child, Honduras. \$5 donation, additional contributions welcome.

Vespers Concert by Basilica Schola

7:45 p.m. Sunday, May 2, Basilica of the Sacred Heart

Immediately following Vespers, which begin at 7:15 p.m. Sponsored by Campus Ministry

ROTC Blood Drive

1 p.m. to 7 p.m. Monday, April 26, and Tuesday, April 27, in the LaFortune Student Center Grand Ballroom

Register online in advance at givelife.org. When you reach the site, enter ZIP code 46556 and select a date and time. You will receive an email confirming your appointment. Those who haven't used the online registration system before will need to create a profile before making an appointment. Blood donations are separated into red blood cells, platelets and plasma, so one donation can help save three lives.



PHOTO PROVIDED

Mike Atkins, IT support for the Alumni Association and a volunteer for "Bike the Bend" rides with wife Bethany Cockburn, a visiting faculty member in the Mendoza College of Business. Both are avid cyclists and enjoy triathlons.

'BIKE THE BEND'

Bike riders take to the streets in community event

Bike riders take to the streets of South Bend and Mishawaka—without fear of traffic—in "Bike the Bend," a community bike ride that takes place from 6:30 to 11:30 a.m. Sunday, May 23.

The noncompetitive family event features a 30-mile route—on streets largely closed to traffic—along the St.

Joseph River and South Bend's historic neighborhoods, through the Notre Dame campus and ending in a celebration at Mishawaka's Kamm Island. Riders can start at any point along the route, and continue at any pace.

Advance registration is required to participate. Register online at bikethebend.com; participants may also register in person at the Farmer's Market, Coveleski Stadium and the YMCA of Michiana.

Registration fees include a T-shirt, a one-year membership in the Michiana

Bike Coalition and a wristband and attendance at the post-ride party at Kamm Island. Fees are discounted for those registering by April 23. After April 23, fees are \$30 for those 18 and older, \$40 per family, and \$20 per person for a group of five or more. Register as a member of the Notre Dame "team" and pay the group rate. Visit bikethebend.com for more information or to register.



Above, juniors Caitlin Burke, center, and Marisa Truong; at far left (inset photo), Ivan Kubaric

PHOTOS: KAITLY FUJA

Bursting the bubble

CommUniversity enhances relationships between students and the South Bend community

BY GENE STOWE, FOR NDWORKS

The second CommUniversity Day brought out some 700 Notre Dame students who fanned out across the city, especially the Near Northeast Neighborhood, to work and play alongside local residents.

The event, initiated by Student Government and subtitled "Bursting the Bubble," involved 37 different projects, from spring cleaning at public parks to a kids' festival on Irish Green. Senior citizens from nearby neighborhoods got a tour of campus.

"The students really do care for the community," says Tim Sexton, associate vice president for public affairs, adding that such events help correct a stereotype of disruptive, partying students among the neighbors.

"When Student Government embarked on this initiative, it was to enhance relationships between the students and the community. The neighbors sometimes see the students in the light of 'they're having a party.'"

On April 10, students were gardening at the Catholic Worker House, painting a mural at the Robinson Community Learning Center, painting fire hydrants in the Northeast Neighborhood, painting kids' faces and playing games on Irish Green, and working with city officials to spruce up two parks.

The Center for Social Concerns, which cosponsored the event, conducted a food drive as part of the day. The Robinson Community Learning Center, whose staff pitched in through the day, hosted a closing picnic starting at 4 p.m.

"Our whole team was pretty much there to help out," says Robinson Center Director Jay Caponigro, who has been appointed the University's director of community engagement. "We're happy to

bring people together.

"The students really wanted to make the connection with neighbors. Their interest is to have an opportunity to relate to neighbors and work alongside them."

At least 400 people enjoyed the hamburgers, hot dogs, music and conversation. Some 200 children participated in the Irish Green party, and 40 seniors took advantage of the campus walking tour.

The student turnout exceeded last year's event by more than 100 people. Organizers expect to continue the tradition.

"There was a lot of enthusiasm," says Denise Baron, Student Government's chair of community relations. "We really had a goal of reaching students who aren't part of the 80 percent who do service at some point in their undergraduate career, including clubs, sports teams and dorms.

"It's not just one day in April. We want to have people renew these relationships."



Top left, Brenna and Braden Farmer

Below left, juniors Kellyn Kublke and Meg Reynolds

At right, first-year students Megan Gamble, left, and Rosemary Joseph

