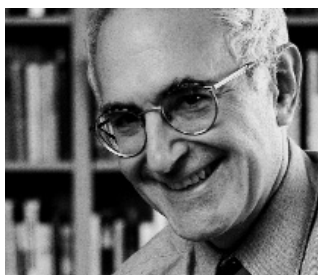


## IN THE WORKS



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# Interdisciplinary collaboration to deepen with GLOBES

By William Schmitt

Academic collaboration among scholars and across departments is reaching a deeper and more significant level through a new program called Global Linkages of Biology, the Environment, and Society (GLOBES).

The project is funded through a five-year, \$3.2 million grant that the National Science Foundation (NSF) has made jointly to the College of Science and the College of Arts and Letters. The goal of GLOBES is to integrate the collective skills of Notre Dame biologists and social scientists in a team-based approach to addressing problems such as environmental degradation and the spread of infectious disease and invasive species.

"The NSF recognized Notre Dame's unique potential to be a leader in tackling important human and environmental health issues," says Jeffrey Feder, an associate professor of biological sciences who directs the GLOBES program.

The University's strengths in the biological and social sciences, combined with its mission to alleviate human pain and suffering, led to this prestigious NSF Integrative Graduate Education and Research Training (IGERT) grant, one of only 25 awards made this year from almost 600 proposals considered.

Planned under GLOBES are:

- New interdisciplinary lecture courses that provide graduate and undergraduate students with foundation principles for problem solving in the biological and social sciences;
- Faculty-mentored student research teams focused on field projects at sites in Bali, China, Africa and the U.S. (the GLOBES research agenda will initially focus on specific subjects such as malaria in Africa, macaque-human interactions on Bali, schistosomiasis in China, and sudden oak death syndrome and invasive species in the U.S.);
- The development of new intensive technology, economics, policy, communications, and ethics training modules for students; and
- The recruitment of outstanding graduate students to join the program as GLOBES fellows.

The program already exists virtually at <http://globes.nd.edu>;

courses will be offered and interdisciplinary teams formed starting next fall. Students who experience GLOBES will gain the breadth of classroom knowledge and real world experience to solve multifaceted problems—global warming, pollution, infectious diseases, and the loss of biodiversity—in scientifically sound and ethically and morally responsible ways.

GLOBES represents a model for increased interdisciplinary engagement among faculty and students at Notre Dame, an integration necessitated by the increasing complexity and cross-cutting nature of the emerging challenges facing humanity. The GLOBES program addresses the University's highest academic aspirations: to conduct cutting-edge and socially relevant research while providing timely educational and career opportunities for graduate and undergraduate students to make a difference in the world.

The program epitomizes Notre Dame's mission as a Catholic university, says Mark Roche, dean of the College of Arts and Letters. "Three issues have profound implications for

Notre Dame as a leading Catholic institution in the 21st century—the ethical challenges of modernity, global economic and social justice, and the protection of nature and human health." GLOBES will provide a framework for Notre Dame to confront these issues grounded in the "strong Judeo-Christian ethic of the sacredness of the environment," Roche says.

"The GLOBES program holds tremendous promise for environmental problem solving, continuing Notre Dame's tradition of uncommon leadership in the conduct of responsible science for the betterment of humanity," says Joseph Marino, dean of the College of Science.

GLOBES will help weave socially relevant science research and education into the fabric of the Notre Dame community, enhancing the effectiveness of centers and institutes dedicated to peace, human justice and environmental stewardship, such as the John J. Reilly Center for Science, Technology, and Values; the Joan B. Kroc Institute for International Peace Studies; the Helen Kellogg Institute for International Studies; and the Center for Social Concerns.

# GLOBES

## Lost and found Web site redefines digital retrieval

By Meghan Winger

Three years ago, Notre Dame's lost and found consisted of a series of bins in a small room, where student workers organized items found all over campus. If you lost a hat, you had to go in and search through hundreds. Today, the lost and found is still a small room of organized bins and drawers filled with all sorts of goodies. But a new system for recording and retrieval has made Notre Dame a leader in the world of missing items.



Students Melissa Grisalas, left, and Heather Richards review items in the Lost and Found located in Hammes Mowbray Hall. Besides inputting information about lost items in the database, Grisalas and Richards organize the items for storage and make pickups around campus. *ND Works photo.*

The improvements are the work of Don Nemeth, communications officer for Security/Police, who was motivated by frustration at the fact that less than 5 percent of found items were returned to their owners.

"Here in the security department our motto is 'A tradition of service,' and we use the acronym R-I-S-E (Respect, Integrity, Service and Excellence) as a guideline for how we do business," Nemeth explains. "Our old lost and found system just wasn't providing an adequate level of service to the Notre Dame community, so we needed to find a way to better it."

Searching the Internet for solutions, Nemeth found just what he was looking for in a system called "Returnity," a database that

allows users to report and search for lost items via a Web site. Notre Dame is one of the few universities that utilize the system, making our lost and found one of the best in higher education.

With Returnity, a lost item can be reported several ways. Instead of the traditional call or personal visit to NDSP, you can e-mail a detailed description to [lost@nd.edu](mailto:lost@nd.edu). Or you can fill out a form at [www.nd.edu/~ndspd/Inf.html](http://www.nd.edu/~ndspd/Inf.html) to be submitted electronically. Use of e-mail or the Web is particularly helpful to those who discover that they're missing an item after they've left campus.

Reports are then entered into the database, which analyzes the submission and determines if there is a matching item in the lost and found. If a match is detected, the owner will be notified immediately. If a match is not detected, the report is kept on file in case a matching item is turned in later.

Although this new system relies heavily on technology, manpower is still an absolute necessity. Four student workers operate the system. "I couldn't do it without them," says Nemeth. Their duties range from collecting items turned in at all the academic buildings to organizing, tagging and entering items into the database and fielding missing-item reports as they are filed.

The database of missing items is available at [www.nd.edu/~ndspd/Inf.html](http://www.nd.edu/~ndspd/Inf.html), at the

Web site's "found items" site. Item retrieval is not restricted to NDSP's regular office hours—someone in the security department will be there to finish the search, even if it's 3 a.m. and you're looking for a Frisbee.

The result: The return of items to their owners has soared from less than 5 percent to 22 percent since the system was introduced, Nemeth says. Items are typically returned to their owners within two days of the reported loss. Community awareness of the system is expected to improve those numbers.

Due to space limitations, NDSP keeps lost items between two and three months, a time period consistent with retrieval patterns, according to Nemeth. After that, they're recycled, donated or auctioned, with clothing usually going to St. Vincent de Paul and eyeglasses and sunglasses donated to the Lions Club at St. Joseph Regional Medical Center. At the ND Auction held during the school year, items like bikes and calculators are auctioned off. In the summer months, more valuable items like jewelry are sold at the "From Old 2 Gold" auction.

The most typical items gathering in the lost and found are clothing, bags and glasses. There are also quite a few cameras, cell phones, and even iPods. So far, Nemeth has collected nothing living: no snakes and no lizards stored next to snakeskin bags and lizard-skin shoes. Following football games, car keys are very common in addition to the anticipated footballs, Frisbees, cameras, umbrellas and coats. (Makes you wonder how people get home.)

"Wherever there's an event, there will be lost items," Nemeth points out. With this year's remaining football schedule, the lost and found is going to be one busy place.

# Conference to explore role of Catholicism in college athletics

By Susan Guibert

An examination of how Catholicism is played out in collegiate sports will be the focus of a three-day conference Thursday, Nov. 10 through Sunday, Nov. 12, in McKenna Hall.

“Catholic Identity and the Role of Sport,” sponsored by the Program in Catholic Social Tradition, will include presentations by faculty experts from across the country, two of whom played football for Notre Dame. The presentations are free and open to the public.

“The idea for the conference grew out of my awareness of two claims made by the University,” explains Todd Whitmore, associate professor of



theology and director of the Program in Catholic Social Tradition.

“The first is that Notre Dame not only is a Catholic university, but that Catholicism is embodied in its attitudes and actions toward society. The second claim of the University is excellence in collegiate sport. The aim of the conference is to examine the intersection of these two claims. Do the two claims reinforce each other or are they in conflict? What are the trade-offs?”

## Prominent journalists to participate in forum Nov. 7

By Meghan Winger

If you’re not a subscriber to a daily newspaper, or if the only news source you trust is Comedy Central, then you’re part of a group that is worrying news providers.

“What will it take for journalism to survive the Information Revolution?” will assemble prominent journalists from ABC, NBC, WCVB-TV in Boston, The Chicago Tribune, the Philadelphia Inquirer and the Poynter Institute for Media Studies to explore that question.

The panel discussion will take place at 3 p.m. Monday, Nov. 7. Sponsored by Notre Dame’s Gallivan Program in Journalism, Ethics and Democracy, the panel discussion is free and open to the public.

The conference opens Thursday with a presentation at 7 p.m. titled “The Twilight of Amateurism: Reflections of a Former Notre Dame Football Player,” featuring Allen Sack, professor of business at the University of New Haven, co-author of “College Athletes for Hire: The Evolution and Legacy of the NCAA’s Amateur Myth,” and a member of Ara Parseghian’s 1966 national championship football team.

Friday’s presentations begin at 9 a.m. with “Do Sports Promote Character Development? A Catholic Perspective,” featuring Edward Hastings, director for the Center for Sport, Spirituality and Character Development at Neumann College in Aston, Pennsylvania.

At 10:30 a.m., Whitmore will present “Catholic Social Teaching, Notre Dame Sports Apparel and the Problem of Sweatshops,” followed at 1:30 p.m. by “Conversations with my Grandfather: On Gender Equity, Catholicism, and College Sport,” featuring Ellen Staurowsky, associate professor of sport management and media at Ithaca College, and co-author of “College Athletes for Hire: The Evolution and Legacy of the NCAA’s Amateur Myth.”

Murray Sperber, professor emeritus of English and American Studies at Indiana University and author of “College Sports Inc.,” “Shake Down the Thunder” and “Onward to Victory,” will deliver a lecture at 3 p.m. Friday titled “Old ND, New ND: The Changing Relationship of Intercollegiate Athletics to the Mission of the University of Notre Dame.”

The conference closes Saturday with a presentation at 10 a.m. titled “What’s Catholic about Catholic Football?” featuring Michael Oriard, Distinguished Professor of American Literature and Culture at Oregon State University, and author of “King Football,” “Reading Football: How the Popular Press Created an American Spectacle” and “Sporting with the Gods.” Oriard was a “Sporting News” All-American lineman for Notre Dame.

The Program in Catholic Social Tradition is an interdisciplinary minor committed to providing students with a deeper understanding of the social ramifications of the Catholic faith.

Participating in the forum will be members of the advisory committee of the Gallivan Program, who will be on campus for their annual meetings. They include: Tom Bettag, senior executive producer, ABC News “Nightline”; Monica Yant Kinney, metro columnist, the Philadelphia Inquirer; John McMeel, chairman, Andrews McMeel Universal; Bill Mitchell, director of publishing and on-line editor, Poynter Institute for Media Studies; Anne Thompson, chief financial correspondent, NBC News; Kelley Tuthill, anchor/reporter, WCVB-TV, Boston; and Don Wycliff, public editor, Chicago Tribune.

The advisory committee has worked the past decade to develop Notre Dame’s undergraduate concentration in journalism for students interested in careers within the news media. The Gallivan Program offers courses and conducts internships involving nearly 50 students annually.



Kellogg Institute Executive Director Chris Welna introduces Sururu Na Roda at Clay High School. The acclaimed Brazilian samba band participated in Brazil Week, a series of on- and off-campus events, as part of Kellogg’s cultural exchange with the Brazilian Ministry of Culture. *Photo by Lou Sabo.*

## Enjoy international fun

ND Works staff writer

Now that we’ve been warmed up for some international fun with Brazil Week (Oct. 24-28), sponsored by the Kellogg Institute for International Studies, be prepared to reap the benefits of International Education Week Nov. 14-18.

Among opportunities, you may be able to get some of your holiday shopping done during a week-long sale of goods from developing countries. Student volunteers will staff a temporary outlet of Ten Thousand Villages from 10 a.m. to 4 p.m. Monday, Nov. 14 through Thursday, Nov. 17 in LaFortune Student Center and from 10 a.m. to 4 p.m. Friday, Nov. 18 in the Great Hall of O’Shaughnessy Hall.

The week’s activities open with a visit from 1980 graduate Melinda Henneberger, who studied in the Angers, France program. Henneberger is a Newsweek contributing editor and former New York Times reporter. She will speak with students and faculty about her career as a foreign correspondent and her reflections on international education and the media.

A special International Education Week calendar will be posted on the Web at <http://www.nd.edu/~issa> to report further cultural, social, culinary and academic activities.

## New site simplifies hiring and recruitment

From the Office of Human Resources

The Office of Human Resources, Recruiting and Employment Services group, will launch a new online employment site in early December. This new site will provide winning options for internal and external applicants, and for hiring managers in their recruitment efforts to fill positions on campus, according to Kris Urschel, Manager, Recruiting and Employment Services Operations.

Individuals who are recruiting for open positions will be able to manage the process online, accessing applicant data and other important information needed during the process. While the Office of Human Resources has provided an on-line application process over the past several years, applications had been delivered to managers via e-mail, one application at time. “The process was cumbersome,” Urschel says. “This Web-based system will allow hiring managers to access and view applications and resumes online and at their convenience.”

Internal and external applicants to

open positions at the University will be able to create and edit their applications, and submit their materials to multiple positions. “The system includes a much easier way to attach a resume and cover letter without losing the format and professional look,” Urschel says.

“This new site,” according to Urschel “will improve our management of the high volume of applications received annually, and provide a better recruitment experience for the hiring manager and candidate alike.”

Testing sessions involving a sample group of potential campus users have recently concluded, and final adjustments to the system will be made based on feedback received in those sessions. Training sessions will begin later in November in preparation for an early December launch.

The new system has been under development using a project team approach. Members of the team, which has been headed up by Kris Urschel, include Ralph Vogel, project manager from the Office of Information Technologies, Sherry Veith, organizational effectiveness consultant from Human Resources, and currently a member of the Renovare HR/Payroll Project Team, and Sarah Misener, director, Recruiting and Employment Services.

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# NDWorks

# NEH endows new program on religion in American public life

ND Works staff writer

If Michael Zuckert's plans work out, Notre Dame will become a summer destination for journalists and news commentators who want to explore the constitutional, historical and philosophical principles affecting religion in American public life.

Throughout the year, the political science department, where Zuckert holds the Nancy Reeves Dreux chair, will host postdoctoral and doctoral candidates and graduate students examining the role of religious faith and religious communities in American life.

Both activities—scholarship and raising public awareness—are part of a proposal recently funded by the National Endowment of Humanities. A three-year, \$1 million NEH grant will support establishment of the Tocqueville Program for Inquiry into Religion in American Public Life. Among other aspirations, the program will reach out to people in the local community such as teachers, ministers and journalists; it also will establish a foothold in the University's Washington, D.C., facilities to better influence the national conversation.

The new program draws attention to the notion that numerous humanities, social science and law faculty here are addressing issues of religion in American public life. The project will tie together the scholarly contributions of faculty across departments and disciplines in the College of Arts and Letters and the Law School. It will engage a cross section of faculty, from seasoned philosophers like Alasdair MacIntyre and Al Plantinga, to historian George Marsden, to David Campbell and David Sikkink, assistant professors in political science and sociology, respectively.

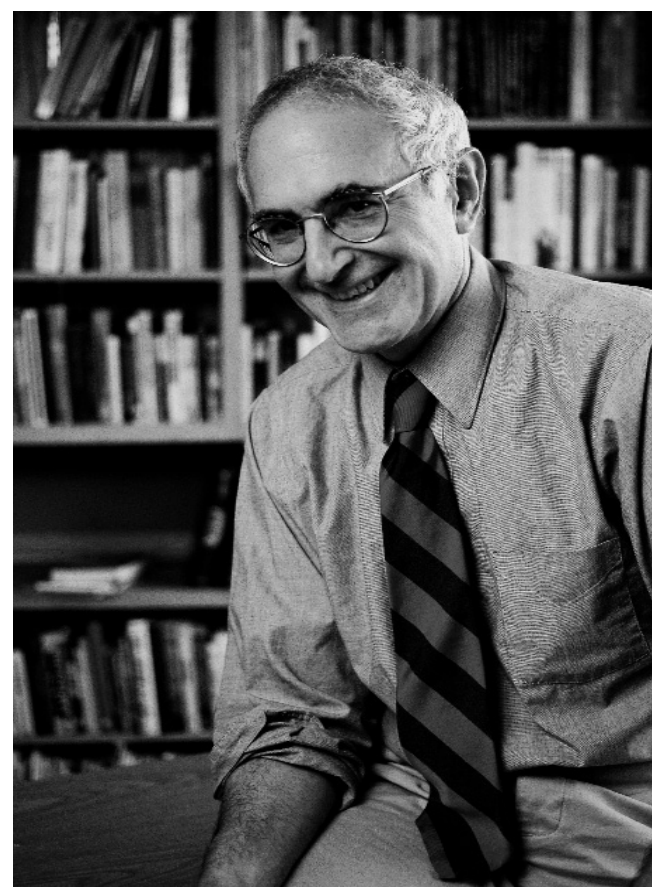
Zuckert believes much of Notre Dame's scholarship reflects a perspective not common in higher education. At the heart of this NEH proposal is the will to help welcome "more voices in the conversation than there often are," he says.

Scholarship on religion in American life has flourished, Zuckert says. But recent efforts have downplayed the religious dimension of religious debate. "It's not that there's a lack of objectivity. There's a lack of comprehension, of attention to the broader picture," Zuckert says.

Though many institutions of higher education avoid or ignore the role of religion, scholars at Notre Dame have been comfortable viewing history and political developments through the lens of religious orientation. "As an institution with a religious orientation, the importance of religion is a question we take seriously here," says Zuckert, author of the recent "Protestantism and the American Founding."

The Tocqueville program will view issues within the framework of the Constitution, foundational American political philosophy, the history of law, and a social scientific view of the cultural dynamics of American society.

The nation has struggled with the issues of religion since its inception, and the struggle manifests itself today in high-profile constitutional debates such as prayer in the public school classroom, educational vouchers, the display of the Ten Commandments or Christmas crèches on public property, and such political inquiries as the impact of the Christian Right on elections and policy.



Michael Zuckert, Nancy Reeves Dreux Professor of Political Science, will direct the new Tocqueville Program for Inquiry into Religion in American Life. *File photo.*

Such conflicts may be ingrained in our culture because the American concept of freedom of religion actually reflects three competing perspectives. Some have sought the freedom to practice a specific religion; others have fought for a nation that supports all religions, while a third contingent fights for freedom from any religion whatsoever.

"The consensus is that the last word has not been said," Zuckert says.

# Afsaruddin sees a hunger for a nuanced view of the Muslim world

By Gail Hinchion Mancini

Ramadan is drawing to a close, ending a month of fasting from sunup until sundown for Asma Afsaruddin, associate professor of the classics and fellow in the Kroc Institute for International Peace Studies who teaches Arabic and Islamic Studies.

Well known as a time of fasting, Afsaruddin explains that the monthlong observation also is a time when Muslims try to abstain from negative thoughts and base behaviors such as backbiting and nasty language.

Whether it's the spiritual cleansing at work or not, Afsaruddin has a

positive message to relay. "I think it's getting better."

"It" is the public's interest in Islam and Muslims at a time when fundamentalist Islamist acts of violence and terrorism have put all Muslims and natives of the Middle East in an uncomfortable light. "It" is replacing Muslim-bashing.

"In very slow but perceptible ways, you see public opinion shifting," she says. "The public seems more receptive to seeking out alternate perspectives. I think people want better sources of information, more balanced sources of information."

Afsaruddin demonstrated her concern about a balanced, informed perspective during the recent inauguration forum, "Why God: Understanding Religion and Enacting Faith in a Plural World," where she participated as a faculty panelist. Afsaruddin took retired news anchor and forum moderator Tom Brokaw to task for a media that oversimplifies issues regarding Islam.

A case in point, she told Brokaw, is the traditional veil some Muslim women wear. It is advanced, through the media, as an icon of female oppression. A closer look, Afsaruddin says, shows that some highly educated career women in the Middle East are readopting the veil as a sign of their faith and independence, a generation after their own mothers rejected the head covering. It's that deeper, nuanced look that the media is missing.

Afsaruddin, a native of Bangladesh who immigrated to the United States with her parents before starting college, is among a number of scholars who have found themselves stepping out of academia's proverbial ivory tower to play a broader role in educating the public and policymakers about Islam.

She holds a doctorate from the Johns Hopkins University in Arabic and Islamic Studies and, by training, is a medievalist who specializes in the religious and political thought of Islam, Qur'an and Hadith studies, and Islamic intellectual history. Her interest in gender studies is reflected in historical research that aims to rebuild an awareness of the revered role women played in the establishment of the Muslim religion.

She laughs as she describes her career expectations as

a newly minted college professor in a field that she humorously admits is fairly rarified.

She is the author of "Excellence and Precedence: Medieval Islamic Discourse on Legitimate Leadership." Afsaruddin says, "I expected to write a couple books that, like my first one, dealt with medieval topics, that would use archival resources, a book that would be read by specialists in my field—all 20 of them—and that only a handful of people would be aware of."

Since the terrorist attacks of Sept. 11, 2001, she has been interviewed by such national media outlets as the Los Angeles Times and the Washington Post. And she is not alone: "More and more scholars are getting engaged in the debate. We realize we can't afford the luxury of the ivory tower. We have to speak, and write, in a way that's accessible to larger audiences. We have to jump into the political processes and duke this out with policymakers ... come back at them with cold, hard historical facts."

Increasing public awareness follows a much longer trend of interest among Notre Dame students, 85 who signed up last spring for the introductory course in the Arabic language. Most students who are taking language and cultural courses in Arabic and Islamic studies are not majoring in Arabic Studies in the classics department.

"They have intellectual curiosity and want to learn the truth from an unbiased source. They want an informed viewpoint and the historical contextualization of events—not what some news anchor chooses to tell them in small sound bites."



Asma Afsaruddin, center, chats with Rev. John I. Jenkins, C.S.C., president, and fellow forum panelist Naomi Chazan, an Israeli political science professor, following the Sept. 22 Academic Forum that complemented Father Jenkins' inauguration. *Photo by Kevin Weinstein.*

# BUILDING OPENS NEW ERA IN EDUCATION AND RESEARCH

*Raclin-Carmichael Hall houses medical students, research collaborations, public health initiatives and expectations for a heightened impact in medical education and biomedical research.*

## Multifaceted Raclin-Carmichael Hall is part of the family

By Gail Hinchion Mancini

There are a lot of ways to think about the new Raclin-Carmichael Hall.

It's an off-campus building technically owned by Indiana University. But its gothic architecture makes it look like a Notre Dame building—a proud cousin of the performing arts center just across the street.

It's a medical school for some 30 first- and second-year Indiana University School of Medicine students. But, on the second floor, it also is the new headquarters of the W.H. Keck Center for Transgene Research, (see related story on these pages.)

In keeping with the mission of IU's medical center, Raclin-Carmichael Hall will become a place of learning about health for the health-care community and even for the Average Joe. A spacious auditorium and ample parking make the new center an attractive option for local health care education. Since some 90 local physicians started their medical training in the IU-South Bend program, the building also can be considered something of an alumni gathering point.

What is not apparent by looking at the building is that it is the offspring of a research marriage. Seeking to expand its base in medical research, the IU medical school is strengthening its ties with Notre Dame's burgeoning medical research programs, which are particularly strong in cancer research, tropical diseases and global health. The union has begat this building has an even brighter future, according Dr. Rudy Navari, director of the IU-South Bend medical education program.

At the dedication for the building on Oct. 25, Dr. Navari expressed hopes that the new facility would have siblings, in the form of a research park along Edison Road that would further support collaborative biomedical research projects. As an educational center, Dr. Navari foresees students shunning the traditional Indianapolis medical school experience for South Bend's more challenging new M.D./master's in ethics program, or an MD/Ph.D curriculum.

Most boldly, Dr. Navari predicts, the partnership will support the doubling of



At the dedication of the Ernestine Raclin and O.C. Carmichael Jr. Hall Oct. 25 friends of Indiana University and Notre Dame heard of friendship, between then presidents Rev. Theodore M. Hesburgh, C.S.C. and Indiana's Herman B Wells, that launched the collaboration in the 1960s. This new auditorium is expected to host community health care education. **Photo by Matt Cashore.**

biomedical research at Notre Dame in the next five to 10 years.

The IU medical school system supports eight satellite campuses like the one affiliated with Notre Dame, and each campus has its niche that reflects the community where it is located. At Notre Dame, that niche will be medical research that builds on what already is the work of some 30 members of the College of Science. Raclin-Carmichael Hall gives physical heft and eye-catching evidence to this rapidly expanding field, but it is one that is rooted in long-time research endeavors such as the Lobund Laboratory, established in 1935; a 30-year-old vector biology project, or the Friemann Life Sciences Center.

Growth in cancer research has been rapid. In 1994, the department of biological sciences opened two post-doctoral fellowships; two years later, a center of cancer research was established with major financial backing from the University and with a five-year \$1.2 million grant from the Walther Cancer Institute in Indianapolis. Dr. Navari arrived in fall 1999 to lead the cancer research initiative, now organized as the Notre Dame Cancer Institute.

Today, the work of 30 faculty and 20 post-doctoral fellows focuses on

multiple areas of cancer research. These endeavors include the basic scientific research exploration; drug design; clinical development, cellular oncology and the gene expression done at the Keck Center.

In addition to the hard scientific view, the College of Science has established a center for compassionate care to teach health care professionals better ways to communicate with patients. It, too, is under the direction of Dr. Navari. And it, too, provides medical students with a learning experience that is unique to Notre Dame.

## Medical program a boon to undergraduates, too



Second-year Indiana University medical students Katie Ellgass and Peter Miller go through familiar physician activities during their classes in the new Raclin-Carmichael Hall. IU students can start working on a master's degree in medical ethics or a combined M.D./PhD while studying in the Notre Dame-based program. **Photos by Julie Flory.**

By Julie Flory

For most of its more than 35-year history, the Indiana University School of Medicine's local education program kept a pretty low profile.

Operating out of the basement of Haggar Hall, even students in Notre Dame's preprofessional studies program (the University's version of "pre-med") were slow to find out there was a medical school right under their noses.

"As an undergrad, I didn't have any idea what the program was about, and only found out about it through a random article I read in The Observer," recalls first-year IU medical student Eric Tarkowski, who majored in preprofessional studies at Notre Dame.

The medical school's new high-profile location will make it hard for Notre Dame's pre-med students to remain uninformed, or uninvolved.

Peter Miller, a second-year IU medical student who also was a preprofessional studies major here, points out some of the benefits available to the students who are now following in his footsteps.

"It creates opportunities for pre-med students," he says. "If they want to check out a medical school, it's right across the street. I know when I was pre-med it was nice to get out and meet students, visit campuses, and find out what it's like."

Not all of Notre Dame's future doctors take the pre-med curriculum. Katie Ellgass, for example, double-majored in science and the Program of Liberal Studies (PLS). Now a second-year IU medical student in the new facility, she points out that students from many Notre Dame departments are benefiting from the opportunity to get involved with research projects in the new building.

As an undergraduate, she says, "I wasn't even aware of the possibility of doing research in the basement of Haggar Hall for the IU medical school, and there certainly are Notre Dame undergraduates who are now coming over here to do research. So hopefully the more prominent location will help encourage more students to do that."

## Of mice and men: Keck Center gets comfy in its new home

By Bill Gilroy

The relocation of the W. M. Keck Center for Transgene Research to Raclin-Carmichael Hall is the latest and best move for a research center that has consistently advanced molecular medicine since its founding in 1996 with Francis J. Castellino, Kleiderer/Penzold Professor of Biochemistry, at its helm.

“The move to this new and elegant facility now allows all members of the Keck Center to occupy space that places us in close proximity, thereby encouraging ready interactions of a large number of individuals with common interests,” says Castellino. “It’s difficult to overstate the importance of such a dedicated facility to this important thematic and very complex research effort.”

In transgene research, scientists alter genetic material in mouse embryonic stem cells in a very precise manner by adding, deleting or modifying the gene of interest. This changes the genetic composition of the animal throughout its entire lifespan and in a way that is inherited by its offspring.

In 1997, under Castellino’s direction, Keck scientists produced a mouse that lacked a specific gene governing blood coagulation, one of the first of its kind in the world. Today, with major funding from the National Institutes of Health and NIH’s National Heart, Lung and Blood Institute, Keck researchers’ primary focus is on determining how proteins traditionally associated with blood coagulation, anticoagulation and clot dissolution, contribute to other pathologies. Keck scientists have produced promising results in several medically relevant areas that underscore the versatile potential of

transgene research, including:

- research by Castellino on the relationships between hemostasis, inflammation and sepsis;
- research by Victoria A. Ploplis, associate director of the Keck and research professor in chemistry and biochemistry, on the genetic basis of colon cancer, as well as on the relationship between hemostasis and angiogenesis, the process of blood vessel formation required to facilitate tumor growth;
- research by Elliot D. Rosen, formerly of the Keck Center and now associate professor in the Division of Molecular Genetics and Gene Therapy at IU, on rescue strategies for genetically deficient mice; and
- a collaboration between Castellino and Mary Porok examining the neurochemical behavior of brain and spinal receptors involved in diseases such as Alzheimer’s and ALS.

Castellino’s focus on hemostasis, the processes that regulate bleeding and clotting, and on inflammation, illustrates the breadth of the research’s influence. Researchers are finding more and more linkages between acute and chronic inflammation and heart disease, atherosclerosis, cancer, asthma and a number of other pathologies.

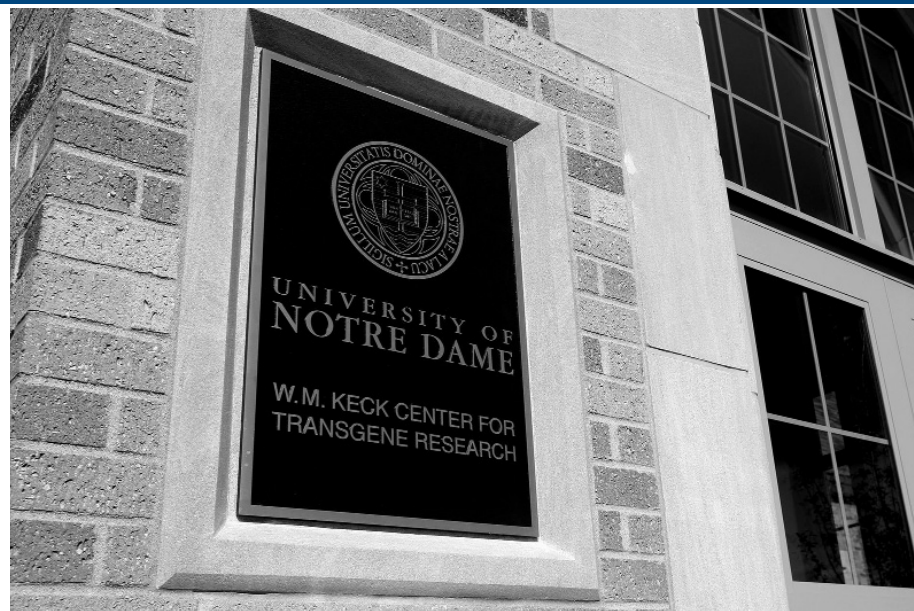
The center’s projects often involve collaborations among other Notre Dame scientists or the Northern Indiana Cancer Research Consortium. For example, researchers have been studying mice that develop polyps because they lack a tumor suppression gene. Some polyps turn into carcinoma, some remain benign. Collaborations among Keck and its partner organizations are examining which will become cancer, and whether the patterns repeat themselves in human colon cancer.

The consortium, which is composed of seven hospitals in northern Indiana, will recruit local cancer patients willing to donate tissue samples for the Notre

Dame researchers to study. One goal of this research is to develop blood tests that diagnose colon cancer, thereby replacing the intrusive colonoscopy exam.

The Keck Center’s move into Raclin-Carmichael Hall is more than a simple change of location. Faculty from the IU School of Medicine and the Keck Center now hold joint meetings to discuss research initiatives and medical developments. For IU medical students and Notre Dame graduate and undergraduate students, “this provides greater educational opportunities for students to be exposed to a number of scientists with diverse expertise.”

With such a great facility and so many opportunities, Castellino says, “My expectations of the individuals who study here have concomitantly increased.”



The W.M. Keck Center for Transgene Research, will celebrate its 10th anniversary in 2006 in a new second-floor facility of Raclin-Carmichael Hall. *Photo by Matt Cashore.*



Frank Castellino says the opportunities for research collaborations in the new building are rising his own expectations “of the individuals who study here.” *Photo provided.*

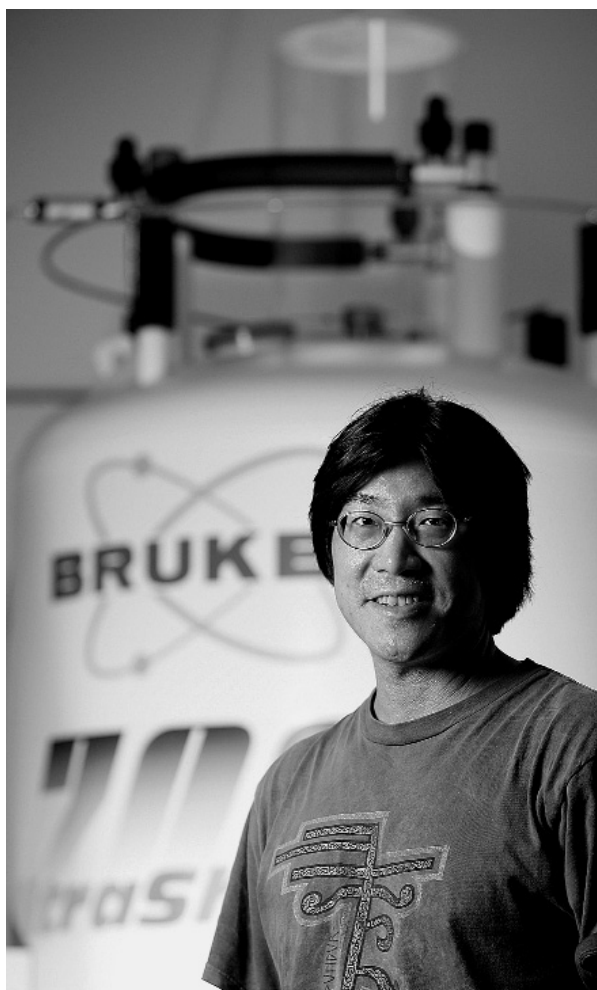
Rev. Joseph Walter, C.S.C., chairman emeritus of preprofessional studies, concurs. “Notre Dame students, especially juniors and seniors, are very bright and interested in doing some research,” he says. “Where some of the medical students might not be as interested, some of our undergrads may be.”

Father Walter notes another advantage for aspiring physicians: “Since the medical school is here, the admissions officers at IU know that the Notre Dame program is a strong one and they know that our students are associated with them, doing research and so forth, and so I think it gives Notre Dame and our students an increased visibility at IU.”

Local students like Ellgass and Miller, both South Bend natives, enjoy the advantage of being close to home and family. But the South Bend location is equally attractive to Tarkowski, who is from the Chicago area.

“Being able to stay here for another two years, go to football games here and be on the Notre Dame campus is a great environment for me,” he remarks. “You’re not living on campus anymore, but you’re still part of the community. It’s still a nice association.”

## Rare spectrometer represents cutting edge in biological, chemical research



Jeffrey Peng, a major user of the 800 NMR, describes the cutting-edge device as looking like a great big can. *Photo by Matt Cashore.*

### ND Works staff writer

In a solidly built room of Stephan Chemistry Building, an 800 NMR (Nuclear Magnetic Resonance) spectrometer is helping scientists enter a new era in biological and biochemical research for Notre Dame.

Essential for research in structural biology and structural biochemistry, the new NMR is so large that researchers such as Jeffrey Peng must climb scaffolding to insert the skinny cylinder of material whose molecular complexity will be revealed through NMR analysis.

Newly installed last summer, the 800 NMR represents one of the most advanced analytical instruments in chemistry and biology today. Its presence at Notre Dame signifies the sophisticated level of research that makes an Indiana University School of Medicine partnership with Notre Dame so attractive. Accessorized as it is with a special low-temperature probe, the 800 NMR is the only instrument of its kind in Indiana. It supports multi-university research collaborations that also include Purdue scientists.

“Structural biology is an important part of biomedical research,” explains Peng, assistant professor of chemistry and biochemistry who uses the 800 NMR for biophysics research. Before joining the Notre Dame faculty in 2003, he used NMR technology in his research for a major pharmaceutical company. “The NMR 800 is on the cutting edge of equipment in biomedical research,” he says.

The NMR is essential to many of the Notre Dame

scientists whose work comprises the backbone of Notre Dame’s biomedical research. They include a number of senior researchers like Paul Helquist, professor of chemistry and biochemistry. His work in drug design for the Notre Dame Cancer Institute examines the potential of various natural and synthetic substances to fight cancer.

A body ravaged by disease is host to destructive activity at the cellular, even molecular, level. Many cancer research projects at Notre Dame explore these molecular interactions and seek to discover whether the growth of disease can be slowed, whether it can be contained, and whether the addition of any synthetic or natural molecules can help stop or NMR testing can tell scientists how troubled host-proteins behave, what they look like, and whether and how any new, curative substances can bind with those proteins to change those behaviors. Earlier versions of NMR have provided insight into these behaviors, as do other research tools and techniques.

The beauty of the 800 NMR is that it provides high-quality feedback for liquid states such as blood, Peng explains.



Employees from many departments pulled together spare resources during October so they could be sent to three Biloxi, Miss. schools devastated by Hurricane Katrina. Posing with the fare that would stuff a truck, are, from left, Kathy Hoffman, Jim Reed, James Gardner, Michael Andrysiak, Rick Anderson, Mike Pollex (hidden), Frank Parker, Les Cox, Randy Benninghoff, Tom Anthony (hidden), Dennis Hollinshead and Jack Woolley. *Photo by Nina Hershberger.*

## That computer you retired? It may be in Biloxi!

ND Works staff writer

On Friday, Oct. 21, a semi-tractor-trailer truck left the area chock-a-block with surplus computers, clothes and furniture donated by NDSurplus, the Office of Information Technologies, Business Operations and the University's licensing department.

The truck was headed to the Biloxi, Miss. area, where students in Notre Dames ACE (Alliance of Catholic Education) program have been teaching in two Catholic elementary schools and a high school in the Diocese of Biloxi.

One of those schools was destroyed by Hurricane Katrina; two others had to be sanitized before students could move back in, and all furniture and materials were lost.

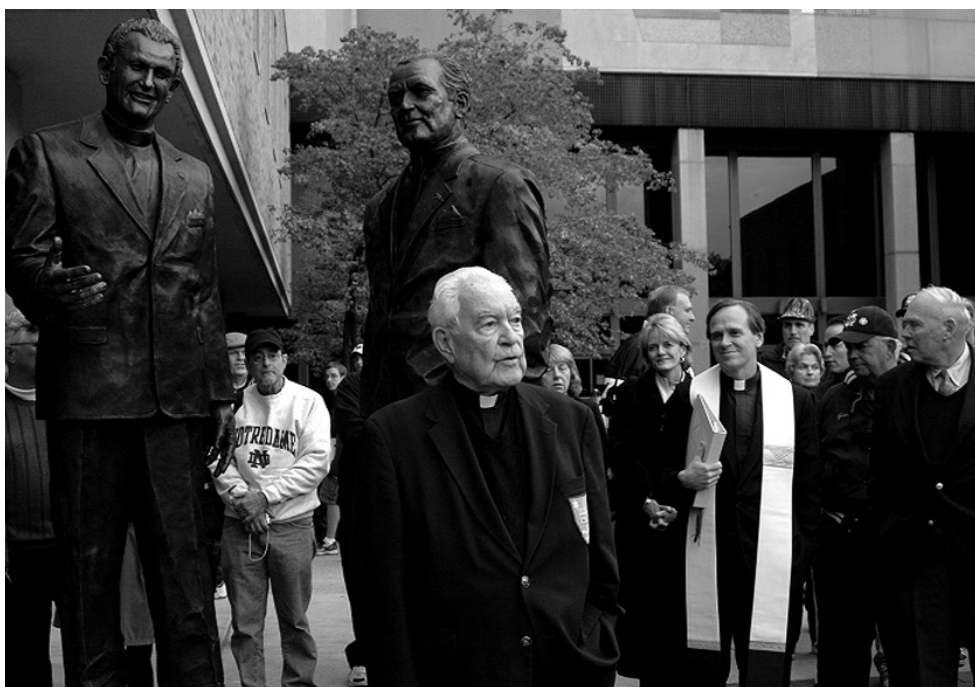
The collaborative donation began as groups that had sustained damage from Hurricane Katrina began sending out requests for the donation of surplus items. Tim Gibney, assistant vice president for procurement services, recommended that the University become involved, but that they help ACE (Alliance for Catholic Education) schools. Mary Jo Adams Kocovski, senior associate director of ACE, helped identify the Biloxi-area schools as particularly affected by the hurricane.

"It seemed like the perfect match," said Thomas Kessler, director of information technologies for the Catholic Diocese of Biloxi, who served as liaison for the project. Kessler operates a Web site that was providing updates on the fate of diocesan schools. He was able to use the NDSurplus Web site, which lists all surplus items, to identify needed goods, according to Frank Parker, manager of central receiving, who played a coordinating role.

As Gibney checked with Jim Lyphout, vice president of business operations, and Molly Gordon from the Office of Information Technologies, the list of items grew.

The round-up yielded a substantial contribution: almost 1,500 Notre Dame t-shirts and nearly 50 hats and visors; 23 computers; 98 pieces of furniture; 500 towels, 60 bed pads, 90 blankets, a fax machines, a scanner and 10 DVD/VCR players.

## WHAT THEY WERE DOING



So which side do you think is Father Hesburgh's best side? The president emeritus, Rev. Theodore M. Hesburgh, C.S.C., stands before himself in profile as he addresses visitors to a dedication ceremony of a new statue depicting him and his longtime executive vice president, Rev. Edmund P. "Ned" Joyce, C.S.C. The statue stands near the reflecting pond and the Hesburgh Library. *Photo by Joe Raymond.*

## Friends forever

By Julie Flory

As you enjoy the new statue of Rev. Theodore M. Hesburgh, C.S.C., and his longtime associate Rev. Edmund P. Joyce, C.S.C., don't just think about Notre Dame's leaders. Think about your friends.

The new statue, dedicated on Oct. 15, honors both the leadership and the longtime friendship of these two Notre Dame legends. The statue was donated by Class of 1953, the first to graduate under the leadership of Fathers "Ted and Ned."

The bronze statue is by Lou Cella of the Fine Art Studio of Rotblatt Amrany. It depicts the two priests engaged in conversation and features a quote from each on its granite base. The sculptures are larger-than-life, with Father Hesburgh standing 7 feet tall and Father Joyce measuring 7-feet-4-inches in height.

There's probably a best-selling business management book in the yin and yang of Father Hesburgh and Father Joyce's relationship. While they were as close as friends could be, each had distinct careers at Notre Dame and in the national arena.

Father Hesburgh has played an active and

influential role in national and international affairs over the past half century. He has held 16 presidential appointments that involved him in virtually all major social issues — including civil rights, peaceful uses of atomic energy, campus unrest, treatment of Vietnam offenders, and Third World development and immigration reform. Justice was the focus of many of his outside involvements. Perhaps most notably, he was appointed a charter member of the U.S. Commission on Civil Rights in 1957 and chaired it from 1969 to 1972.

For many years, Father Joyce was an influential voice in the National Collegiate Athletic Association, particularly in matters dealing with the educational integrity of intercollegiate athletic programs. He also was instrumental in the formation of the College Football Association and served that organization as secretary-treasurer. The National Football Foundation honored Father Joyce with its Distinguished American Award. There are three endowed chairs established in his name at Notre Dame, and the University's Athletic and Convocation Center is named in his honor.

Both retired in 1987 after serving for 35 years, and kicked off retirement with a long vacation that provided material for Father Hesburgh's 1992 book "Travels with Ted & Ned." Father Joyce died in May 2004 at the age of 87.

## Distinctions

The University welcomes the following new employees, who began working in September and October.

**Stacy Koebel**, accounting and financial services

**Byron Taylor**, biological sciences

**Andrea Johnson**, budgeting and planning

**Terra Szczypiorski**, building services

**Amy Zercher**, chemistry and biochemistry

**Therese Spann**, College of Arts and Letters

**Christopher Sweet**, computer science and engineering

**Sue Halasz and Brian Scislo**, athletics

**Eileen Duffy and Michele LaCosse**, development

**Bill Gangluff**, Executive MBA

**April Howell and Christine Whelan**, food services

**Michelle Lezama**, GEM

**Mark Lesiuk**, general services

**Tamara Freeman and Mary Warner**, human resources

**William Alexander**, information technologies

**Alisa Zornig**, Kaneb Center

**Sean O'Brien and John Wilkinson**, Keough Institute

**Maria Pizana**, Latino studies

**Carla DeVelder**, Law School

**Julie Arnott, Aedin Clements,**

**Joseph Holtermann**

and **Christine Johnson**, library

**Mark Egierski**, maintenance

**Jennifer Dujka**, Mendoza College of Business

**Joseph Ricciardi**, military science

**Eleanor Butterwick**,

Nanovic Institute

**Joan Lacay**, Office of the University Architect

**Bernd Goehring**, Program of Liberal Studies

**Andrea Stenftenagel**

and **Heidi Miller**, psychology

**Molly O'Neill**, residence life and housing

**Kelli Brown**, Review of Politics

**Sean Kelly**, sociology

**Maureen Warter**, student activities

**Sharron Newhouse**,

St. Michael's Laundry

**Emily Hartzer**, theology

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In the last ND Works, **Vikas Tomas** was listed as having joined the psychology faculty. Tomar is a member of the Department of Aerospace and Mechanical Engineering.

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**Marguerite Taylor**, assistant program manager of the Robinson Community Learning Center, served as the Grand Marshall of the 17th annual Red Ribbon Parade Friday, Oct. 28 through downtown South Bend. The parade generates commitment to a drug free America.

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**Anne Kolaczyk**, instructional design/training specialist in the Office of Information Technologies, recently was awarded an "Overall Winner" citation in the Printed Instructional Materials category of the national annual Special Interest Group on University and College Computing Services (SIGUCCS) Communications Award competition.

Kolaczyk's entry, "Adobe Acrobat 7.0: Creating Forms" (edited by Susan Antonovitz), was judged by a panel of peers from various schools on criteria such as effective analogies, relevant examples, and portability of instruction. Kolaczyk's 52-page documentation is primarily used as instructional material for a training course originally designed to assist faculty and graduate students submitting grant proposals in PDF form to the National Science Foundation.

## 'Cash' tends to the spirit of Rockne

By Lisa Panzica

Many people think that the grave of Knute Rockne is under the nearly 5-foot-tall memorial marker on the bend of Council Oak Drive at Highland Cemetery in South Bend. So, if Sylvester Cashen sees Notre Dame fans leaving mementos at the marker to honor the legendary coach and man, he makes sure they know they are not at his actual gravesite.

"If you stand at his memorial, turn to your right and walk toward the two big pine trees, you can't miss the Rockne family plot to the left of the trees. That's where he is buried," says Cashen, a retired member of Food Services' butcher shop.

Cashen, 74, is the unofficial caretaker of Knute Rockne's memorial marker and gravestone. Though, after doing this three times a week for more than 20 years, it's pretty safe to call him Rockne's official gravesite caretaker. Quiet and humble, "Cash," as he likes to be called, has taken it upon himself to oversee the groundskeeping and monitoring of Rockne's memorial, his gravestone and the rest of Rockne's family markers.

He understands when fans feel compelled to leave small tokens at the gravesite. After all, he is a fan of Rockne's legacy as well. He never had a

chance to meet the coach, but feels as though he knew him. Rockne and his wife, Bonnie, were close friends of Cashen's in-laws. Next-door neighbors as well as best friends, Bonnie Rockne and Lydia Peterson spent as much time together as possible. By the time Cash met his wife, Mara Peterson, Rockne had died in a plane crash.

Cashen began taking care of the graves not at the request of anyone, but simply because no one else was doing it.

After her parents died, Cash would go with Mara to tend to her parents' graves. They noticed that no one in particular paid special attention to the Rockne gravesites. Most of Rockne's family lived out of town, so the general care of the graves was left to groundskeepers at Highland. Cash began pulling the weeds himself, as well as straightening and watering any flowers that were left. He eventually began grooming the lawn surrounding the plots to give them the dignity he felt they deserved.

Today Cash is known by all of the Highland staff. They respect his request to leave all lawn mowing and weeding at the sites to him. He buys and plants all flowers, and grooms the sites so they look loved. As for the mementos left behind by fans, well, he doesn't mind taking care of those either.

"I think they look nice," Cashen says. "When I came out (on the Monday after the USC game), someone had left five cigars and five shots of whiskey at his grave. It only happens during football season. I wasn't asked to do this. I'm no professional. I'm just an ordinary, everyday person who comes out and mows the lawn and tries to keep up with things. The way I look at it is, I'll take care of it as long as I'm able.

"As long as I can walk and I can drive, I will continue to take care of it just like I do for my wife, her parents and my parents."



Sylvester Cashen stands at the gravesite of legendary coach Knute Rockne. Rockne is buried at Highland Cemetery in South Bend. Cashen, no relation to the coach, has tended to the Rockne family plot several times a week for more than 20 years. *Photo by Lisa Panzica*

## FYI

### United Way facing 'compassion fatigue'

By late last month, Notre Dame's 2005 United Way fundraising drive had raised almost \$178,000 toward its goal of \$320,000, according to Lisa Yates, University campaign director.

As the campaign moves towards its Nov. 9 end date, the staff of United Way of St. Joseph County is expressing concern that "compassion fatigue" following a series of massive natural disasters may translate to fewer funds donated for local charities.

Americans respond in the wake of tragedies such as last year's tsunami and Hurricane Katrina, notes Bob Scott, United Way of St. Joseph County's vice president for resource development. "People see the need, the tears, and they want to help. They don't even think twice."

On the home front, Scott says, low-income families and the poor in St. Joseph County are in the crosshairs of a "20-foot wave of misery," he says. The need to support local charities is greater than ever.

"We are facing a situation this winter where home heating costs are expected to soar. We also are facing a situation where other costs are impacting low-income working families. The cost of gas, food and everything else is rising. For those that are most vulnerable in our community, it will have a devastating impact," Scott says. "The toll here in St. Joseph County is going to be very real and immediate. And we are not going to have CNN on the corner urging us to respond."

A number of United Way programs support low-income families with "hand up, not just handout" assistance, Scott says. For example, United Way supports six food pantry programs and the county's only shelter for abused women and their children. The Literacy Council, which provides tutoring for the county's 40,000 functionally illiterate adults, receives United Way funds.

"In 2004, the St. Joseph County United Way put over \$300,000 into emergency financial assistance to help folks that are having trouble paying for heat," he notes. Still, one-third of

people on heating assistance must choose between paying the heating bill and buying food.

Every dollar raised will help change someone's life, Scott says.

Notre Dame's 2005 United Way campaign ends November 9. If you have not completed a pledge card, you can download the form in PDF format at <http://unitedway.nd.edu/kickoff/kickoffs.htm>. Please return the form to 200 Grace Hall on or before Nov. 9.

### Get fit for the holidays

RecSports is offering a new series of exercise and health-related workshops scheduled just as the big holiday eating season begins. Sessions are:

- 7 p.m. Thursday, Nov. 10—Exercising with the Stability Ball
- 7 p.m. Wednesday, Nov. 16—Avoiding Holiday Eating Pitfalls
- 5:15 p.m. Wednesday, Nov. 30—Selecting Home Exercise Equipment

To sign up for a session, contact Adrian Shepard at 631-3432.

### Join the World Year of Physics

The Department of Physics is welcoming the public into its labs in the Nieuwland Hall of Science Saturday, Nov. 5 in honor of the World Year of Physics.

Two one-hour tours of the Nieuwland Hall laboratories are planned at 9 a.m. and 11 a.m. Weather permitting, the Nieuwland Observatory will be open for visitors to view the sun and to see the historic 1850 Napoleon Telescope.

At 10 a.m. Chris Kolda, associate professor, will present a lecture, "God's Dice: Einstein and the Journey from the Wedgewood Kilns to the Uncertainty Principle," in Nieuwland Hall 118.

### Tennis anyone?

The men's and women's tennis teams will offer a clinic for adults and children from 5:30 to 7 p.m., Wednesday, Nov. 9 in the Eck Tennis Pavilion. Regular tennis shoes are required (no running shoes permitted). Please bring your own racket. There is

no preregistration or fee, but you must have valid ND identification.

### Be a better investor

You can learn more about determining your own investment strategy on Thursday, Nov. 17 during one of two seminars being offered in the lower level of Grace Hall. The first is from 11:30 a.m. to 1 p.m., the second from 3:30 to 5 p.m. There is no fee for the seminar, which intends to teach beginner to intermediate investors some of the basics of investment, asset allocation, and selection of mutual funds. Register online at <http://iLearn.nd.edu>.

Fidelity Investments, The Vanguard Group, and TIAA-CREF will be on campus this month to assist you in planning for your retirement.

Please contact the vendors directly for an appointment. Fidelity Investments (800-642-7131) will be on campus Nov. 17. TIAA-CREF (877-267-4507 or [www.tiaa-cref/moc](http://www.tiaa-cref/moc)) will be on campus Nov. 15-16. Representatives of the Vanguard Group (800-662-0106, extension 69000; [www.meetvanguard.com](http://www.meetvanguard.com)) will be on campus Nov. 18, or you can contact Vanguard for an individual telephone consultation.

### Final educational benefits session scheduled

The final information session on the University's education benefits program for the children of employees will be held Tuesday, Nov. 15 at 7 p.m. in the Carey Auditorium of the

Hesburgh Library.

The session, sponsored by the offices of human resources, undergraduate admissions and financial aid, are open to parents and their children. The session will provide information for children who may want to attend Notre Dame or Saint Mary's, as well as those eligible families interested in using the portable education benefit.

Details of the education benefit program can be reviewed at <http://hr.nd.edu/benefits/index.shtml>. The benefits for children attending Saint Mary's College are slightly different. Those guidelines can be found at <http://www.finaid.org/calculators/dependency.phtml>.

## FROM THE ARCHIVES



This aerial view of the dedication game in Notre Dame Stadium on Oct. 11, 1930, against Navy, reminds us of what the original stadium, and a much younger campus, looked like. The Board of Trustees has approved a plan to begin major restorative repairs to the original bowl of stadium, for 75 years the home of Fighting Irish football. The project is expected to take four years and will involve patching or replacing sections, as necessary, and replacing the waterproof membrane that protects the seating bowl from water and future freeze/thaw damage. *Photo provided by Elizabeth Hogan, University Archives.*

# BACK STORY

Danny Cocanower, right, and son Nick grill pretzels to raise money for the Youth For Christ Lifeline, an organization that helps troubled youth in Elkhart.



Forty-eight concession stands in and around the stadium raise money for charities including churches, civic groups and sports teams.



The Pentecostal Hospitality booth is staffed by members of the Pentecostal Cathedral Church of God in Christ, South Bend. Left to right in front: Hannea Cox, Elnora Chism, Mary Frazier and Sabrina Butler; rear left to right, Leonard Butler, Jeffrey Wilson and Donald Terrence Jordan. This is the group's first year working concessions, and they hope to return next year. "It's fun," says Sabrina Butler.

Below: Brent Randall and son Josh sell bottled water to benefit the local chapter of the Spina Bifida Association.

## What a rush: Not-for-profits staff stadium concessions

By Carol C. Bradley

In Notre Dame Stadium, if you buy a hot dog at one booth, it's likely going to taste like the hot dog you buy at any other of the 42 permanent concession stands on the three levels of the giant facility.

The difference is, if you buy it at one stand, you may be supporting a Kiwanis Club, while at the next booth, proceeds from your purchase may help a Little League or swim team.

"Benton Elementary PTO, Discovery Middle School, a lot of saints," says concessions manager Kathleen Fulcher, giving a few examples of the not-for-profit groups that earn income by staffing concession stands. "St. Joe, St. Pius..." The list is a "Who's Who" of Michiana-area charities.

It's an efficient way to staff a complex enterprise where each booth is licensed as a temporary food service operation, subject to the same strict regulations as any sit-down restaurant.

Each permanent booth has a food preparation area complete with a commercial refrigerator, food preparation sinks and hand-washing sinks. Representatives of each organization that staffs a booth must participate in a sanitation training class at the beginning of each season.

When workers arrive on the day of a game, the refrigerator is stocked and all supplies are waiting. Hot dogs and soda are staples, but the menu undergoes updates. For example, soft pretzels have been added, and Ritter's Frozen Custard has replaced Ben and Jerry's ice cream bars, which the company stopped producing.

In addition to the traditional hot dogs and sausages, specialty stands now offer choices such as pizza and barbecued pork sandwiches. Hamburgers are available at the concessions trailers outside the stadium.

Once the Food Services staff has made sure all the concession volunteers are organized, they stand by to respond to spikes in supply and demand.

Weather plays a big part in sales, Fulcher notes. "In hotter weather, they

buy Lemon Chill [a frozen lemonade product] and water." Ice is at a premium.

When the weather is colder, she says, people buy a lot of hot coffee and cocoa, and they also buy a lot more hot dogs. Provisions are based on previous years' sales and on weather reports.

Larry Savage has worked stand No. 36 in the southeast corner of the stadium for the past six years. Profits from the stand benefit Sunnyside Presbyterian Church in South Bend.

The worst part of the job, Savage says, is the soft pretzels. They take half an hour to bake, so it's a race to get a good supply ready and stored in the food warmer before the gates open. "You have to start early," he says.

Volunteers are too busy to follow much of the game. "We listen to the crowd, but we're working the whole time."

Every year, church members must meet to decide if they're going to participate in the program again.

"It takes 96 people to staff it for the season," Savage says. "It's always a challenge. But when we look at the good we do in our church with the \$6,000 we generate, we have to do it again."

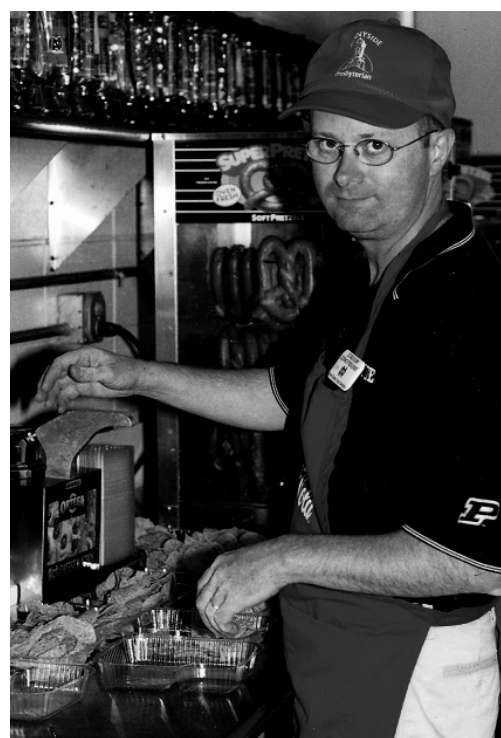
Working together is also a great way to make friends, he says. "We get a lot more out of it than the \$6,000."

Should Savage's group bow out, Food Services will look to the waiting list of charities hoping to operate booths. The volunteer application form can be found on the ND Food Services Web site at [food.nd.edu/vending/concessions.html](http://food.nd.edu/vending/concessions.html).

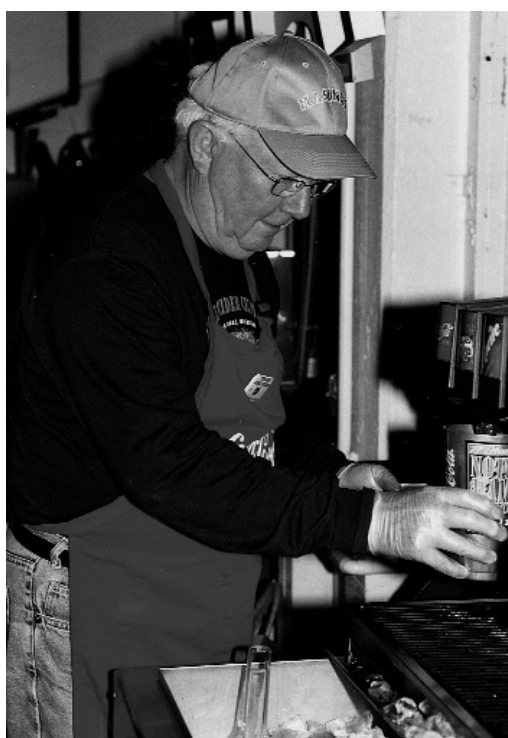
Photos are by Carol C. Bradley



Jeanette Saddler Cox volunteers on football Saturdays to help raise money for Good Shepherd Lutheran Church, South Bend



Bruce Shepard, Sunnyside Presbyterian Church, gets ready to add hot peppers to nachos. Crew members arrive four hours before the game to start preparations.



Kent Ramsey, of Good Shepherd Lutheran Church in South Bend, pours a soft drink for a customer.

Right: Roy Hruska, left, and Bill Yerkes manned side-by-side Lemon Chill and Ritter's Frozen Custard carts to benefit the Clement Studebaker chapter of Questers International. Questers raise money "to repair old things," Hruska says. One recent project was restoration of the six columns on the old courthouse in downtown South Bend.



Larry Savage has worked football concessions for Sunnyside Presbyterian Church for the past six years. The dedicated crew earns nearly \$6,000 per season working the stand.