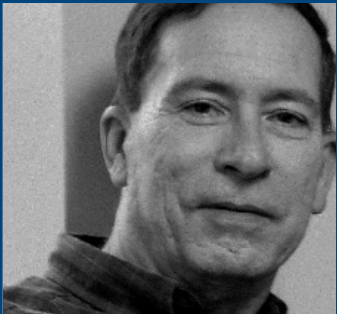


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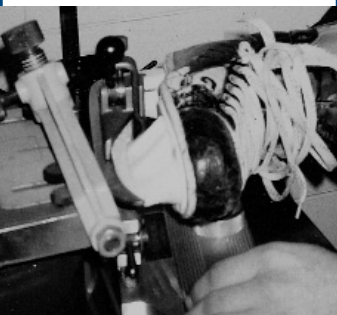
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White-shirt crew weaves ND's financial story

Controller's Group report describes strong investment and budget picture



Cover design by Marty Schalm.

By Gail Hinchion Mancini

It is said that if you see someone walking around campus wearing a suit and a white shirt, it's likely a member of the Notre Dame Controller's Group. Notre Dame probably employs more certified public accountants than most local public accounting firms, and many of these CPAs are with this group.

It's time for the members of this Grace Hall-based department to loosen the proverbial tie and undo the top button of that shirt. The 2004 annual report—the culminating annual tasks of this 50-member staff—is complete. As of mid-November, the financial reports and commentary on the 2003-2004 fiscal year were deemed final and the results dropped into this 45-page document. As December dawned, boxes of the printed version began arriving on campus. Shortly, a PDF version will be mounted on the Web at http://controller.nd.edu/annual_report.

Despite their conservative clothing and the absence of iambic pentameter in their prose, members of the Controller's Group are the designated tellers of Notre Dame's financial story. The annual report publishes that story, complementing it with expressive pictures and overviews by the University's fiscal leaders.

Who are its likely readers? Anyone who wants to know how Notre Dame cares for its financial resources: students, parents, alumni and donors, bankers, investors. "We're the scorekeepers," explains project team member Jason Schroeder, a manager with the Financial Reporting and Analysis arm of the Controller's Group.

Drew Paluf, assistant vice president for finance and head of the Controller's Group, encourages faculty and staff to take a look at the report. As he sees it, "The annual report brings together all the financial activity of this little city we operate in."

continued on page 4

Futuristic appliance designs let you bring the washer to the laundry

Design competition entry advances stackable, moveable concept

ND Works Staff Writer

Paul Down has just experienced the crowning moment of his professorial career, and the challenge contains an amusing twist: take undergraduate industrial design students with little experience in household tasks such as laundry and dishwashing and assign them to design the appliances of 2015.

Laughing at the irony, Down, associate professor of design, notes: "Sometimes familiarity *limits* creativity."

Down and his students returned in mid-November from Design Laboratory 2004, an international competition for kitchen and laundry appliance design that culminated in New York City. Although his students did not win top honors, their mere participation in what Down considers the Olympics of design stands as a distinction and, Down says, "the high watermark for our program."

Notre Dame was the only North American university in the competition, gaining a berth among institutions from Brazil, China, Portugal, the Czech Republic and Britain.

Once accepted as a competitor, part of Down's strategy was to call on Joseph P. Guiltinan, professor and chair of marketing in the Mendoza College of Business. Guiltinan matched MBA students with Down's design teams to work through the challenge of creating designs that would be profitably marketable. John Caruso, assistant professor of art, lent additional support on student design activities.

The competition's challenge was to design the coming generation of appliances for one of three distinct client groups: baby boomers, urban dwellers or a global clientele in developing nations. Down had three teams—each supervised by an MBA student—working on each of the three concepts.

Down's students learn what clients might like by going out and meeting people. For example, an undergraduate currently designing the next generation of prescription bottles is working with residents of a local retirement home.

The competition's students took the same approach: establishing a control group of individuals from which they could develop a profile of needs. The



Rebekka Guenther, who graduated last spring, and senior Matt Bartula set up a display of their concept in Manhattan last month. *Photo provided by Paul Down.*

competition's sponsors, the Swedish corporation Electrolux, donated samples of appliances so the students could learn from today's design and mechanical standards. (Riley Hall being one of Notre Dame's more crowded teaching facilities, the appliances had to be stored in a hallway.)

The three teams created three great ideas, and Down speaks of the ones left behind like a fisherman who laments the catch that got away. They included an energy- and water-saving combined dish and clothes washer for resource-poor developing nations. The design for urban professionals went onto the New York finals because ongoing input from the competition's staff suggested that would be the strongest strategy for final judging.

The design that went forward is ecologically savvy, compact and light enough that a small woman could move its pieces around. The design solves the issue of limited space by creating stackable appliances that well could serve as a wall divider.

"The freedom of instillation of these concepts allows you to think of laying out your house in a unique way," he says, adding that a small cabin he and his family own in the woods also could make great use of these systems.



Q: Where is the University in its quest to find a more meaningful way to evaluate teaching?

A: This is one of the most difficult issues in higher education, and one to which I hope my faculty colleagues will give careful thought. Many

want to find a more meaningful way to evaluate teaching, but it's going to be difficult to devise a new method that could fairly apply across the University's many colleges and departments.

Right now, the principle measure to evaluate faculty teaching skills for tenure and promotion decisions is the numerical scoring of the Teacher Course Evaluations (TCEs) filled out by students at the end of every semester. TCEs answer whether students believe they're well taught. But they don't address other issues of quality: Are the learning goals for the course meaningful and well articulated? Do the assignments, tests and other activities relate to those goals, and do the students achieve those goals?



Brown

There is consensus that those questions should be answered, but we need to identify a system we can put in place to make that happen. For example, it looks as though we'd need to rely on peer review, but how much time would we have to dedicate to those reviews, what uniform elements should those reviews include, and how can the system protect against subjectivity?

The issue has been addressed—without solution—in the past, and it's bubbled to the surface again. Student Government has asked that students be allowed access to TCE results to help them pick courses. In the course of discussion about that request, little support has emerged among faculty for making TCEs public record, but considerable support has been seen for more meaningful teacher evaluation. The Provost's Office has asked relevant Faculty Senate subcommittees to address the issue and report back by spring.

This is one of those challenges that will take time to get right. But I would hope faculty members, individually and collectively, could start thinking about creative ways to address this. Talk about it in department meetings. Bring ideas to the attention of the faculty senators. I think the real effort in this should come, and will have to come, from the grass roots. Only the teaching faculty, individually and as departments, will be able to formulate ways to measure teaching that will be appropriate for their fields and workable for the people involved.

Response by Seth Brown, associate professor of chemistry and biochemistry and chair of the Faculty Senate.

Q: How does the 2005 mail-order prescription drug benefit work?

A: Those of us who take long-term or maintenance medications will want to get on the Medco by Mail prescription order system during 2005 to save money. Once you've gotten your prescriptions in the system, it's painless and actually more convenient than running to the corner pharmacy. The sooner you start, the sooner you start saving money.

A few notes before we begin: if you wonder whether the medication you regularly take is considered maintenance, contact Medco by Mail (phone, 1-888-easyrx1). This resource can answer any of your questions including how much your mail-order prescription will cost.) A grace period starts Jan. 1 in which your prescription can be filled up to three times at a local retail pharmacy at your current co-pay cost.

To sign up, you'll need to get your prescriptions into the hands of Medco by Mail. Ask your doctor for a 90-day prescription with a notation that it is to be refillable for a year. The doctor can give you a paper prescription. Or, he or she may fax the prescription directly to Medco. They can get faxing instructions by calling 1-888-327-9791.

Medco also needs to know who you and your family members are and how you want to pay for your share of the prescription's cost. A form is available from Human Resources, 200 Grace Hall, or from the HR Web site at http://hr.nd.edu/forms/medco_home_deliv.pdf. Fill that out and mail it in with your prescription or prescriptions. If your doctor has faxed a prescription, you'll still need to fill out this form to include your mailing address and payment information.

A third way to order prescriptions is the on-line option, and can be done at the Web site <http://www.medco.com>. Click the "members" option. You will need Medco to assign a password to you, and a unique password to each of your family members. For those who are comfortable with online ordering, this feature will allow you to get refills as well.

Your medication usually will be delivered within eight days after Medco receives your request. Further information is available by contacting Medco Member Services at 1-800-711-0917 or by calling Human Resources at 631-9396.

Response by Violet Bloom, benefits manager.

Submit a question to NDWorks@nd.edu or call 631-4314.

International Study Programs recognized for quality

By Shannon Chapla

For several years, the percentage of Notre Dame undergraduates that study abroad has been one of the highest in the country. This year, in addition to maintaining strong numbers, the University's International Study Programs is gaining accolades for programmatic excellence.

Notre Dame is one of just 13 U.S. schools recognized for outstanding study abroad programs in a new report titled "Internationalizing the Campus 2004: Profiles of Success at Colleges and Universities." The report is prepared and published by NAFSA: Association of International Educators and showcases U.S. colleges and universities that are making innovative, wide-ranging efforts to integrate global approaches to teaching.

"One of the things they picked up on was that study abroad here applies to students not only in Arts and Letters, but science, engineering and business," says Julia Douthwaite, assistant provost for international studies. "We were singled out for excellence across the curriculum."

Students in business, science and engineering who want to continue earning credits in their majors while abroad can enroll in a number of international options where their program interests are supported in the classroom. Engineers, for example, can continue to earn credit in Australia or Mexico, sometimes by taking classes in the classrooms of those nation's universities. Douthwaite credits the cooperation of deans as key in developing international studies options across the colleges.

Notre Dame's high percentage of undergraduates in international study also impressed NAFSA, whose selection committee notes the University is "one of a handful of research universities that sends as many as half its students to study abroad during their undergraduate careers. Today it takes 19 pages in Notre Dame's outsized Bulletin of Information to list the study abroad programs and courses offered on five continents." (The study that tracks participation by numbers is called Open Doors. Published by the Institute for International Education, it ranks Notre Dame as sixth in the nation this year.)

Notre Dame's International Study Programs also emphasize service learning and internships. Between a fourth and a third of students abroad participate in a community-based activity, Douthwaite says.

The NAFSA honor was a thrill to members of the staff because the programs were profiled in detail, Douthwaite says. "The public recognition is extremely gratifying," Douthwaite says. "The staff is very dedicated. They work closely with the students to help prepare for their time off campus, and the students come back after their experiences and tell us all about it. We pick up on the excitement of their travels."

Notre Dame currently offers study abroad programs in Fremantle and Perth, Australia; Innsbruck, Austria; Rio de Janeiro and São Paulo, Brazil; Santiago, Chile; Cairo, Egypt; London and Oxford, England; Paris and Angers, France; Athens, Greece; Dublin, Ireland; Rome and Bologna, Italy; Tokyo and Nagoya, Japan; Monterrey and Puebla, Mexico; Moscow, St. Petersburg and Vladimir, Russia; and Toledo, Spain.

In addition to Notre Dame, the NAFSA report honors the Universities of North Carolina, Oregon, Florida and Delaware; Duke, Binghamton, Lynn, Missouri Southern State and Suffolk Universities; and Bellevue Community, St. Norbert and Juniata Colleges.



As pictured in a national report on great international study experiences, the staff of the Office of International Studies poses in Hayes-Healy Center. Back row, from left, Juliett Mayinja, Lesley Sullivan, Anne Hayes, Anna Dettelsen, Tom Bogenschield, Julia Douthwaite, Joan Clark, Sarah Baer and Peggy Weber. Front row, from left, Marcia Minniti, Claudia Kselman, Joe Stanfiel, Madeline Gaughan, Barbara Toth, Terri Bays and Kathleen Opel. **Photo provided.**

NDWorks

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An economist's Rx: Have a statistical revolution

By Gail Hinchion Mancini

When it comes to making life decisions about which college or college major to pick, Larry Marsh could be the uncle who always gives the sage advice.

Marsh is full of answers on which decisions matter and which don't, having recently served as guest editor on a special edition of the nation's most prestigious journal of econometrics (aptly named the "Journal of Econometrics"). In the edition, economists from around the nation use modern economics formulations in seeking answers to time-honored questions, from the value of SAT scores to the impact of changes in affirmative action.

Some of their conclusions shatter myths; others reinforce them, notes Marsh, an associate professor of economics.

For example, does it matter what someone chooses as a major? If "matter" means how much you earn later on, yes it does. According to this analytical profile, mother was right: there is a correlation between choosing majors pointed toward successful working fields and one's success. The statistics also show that, nevertheless, students still are picking what most interests them, not what will most ensure job success.

As an almost 30-year veteran of economics research and teaching, Marsh has been witness to a profession for which asking familiar questions results in better and more refined answers. In fact, he sees a revolution.

In the 20th century, Marsh says, the point of statistics was to make general statements.

Case in point: medical researchers looked over data and came up with new health rules about reducing the possibility of a heart attack by reducing cholesterol.

But in the 21st century, statistics has taken a 180-degree turn by discovering models to correct for unobserved distortions, and to generate individual-specific analysis and conclusions. The medical field now has the capability to read multiple clues about our individual health profiles and determine whether our private mix of factors makes us heart-attack prone.

"The next Bill Gates may be the person who translates all the equations from the medical journals into a computer program that produces this individual medical diagnosis, prognosis and treatment," he says.

"In the 21st century, society will reject the one-size-fits-all approach."

Look at Marsh's biography on the Internet, and you can see he's been productive: 75 professional publications in a wide variety of journals and books, more than 125 presentations at professional conferences, seminars, and workshops; 2,000 lectures to Notre Dame graduate and undergraduate students; service on 81 doctoral dissertation committees.

But it's Marsh's point that a lot of straight line information doesn't tell the story, and that's the case with him. His biographical statistics notwithstanding, Marsh is a man who wishes he could hurry the revolution along.

"Progress has been brilliant, but the greater impact has gone untapped," he says.

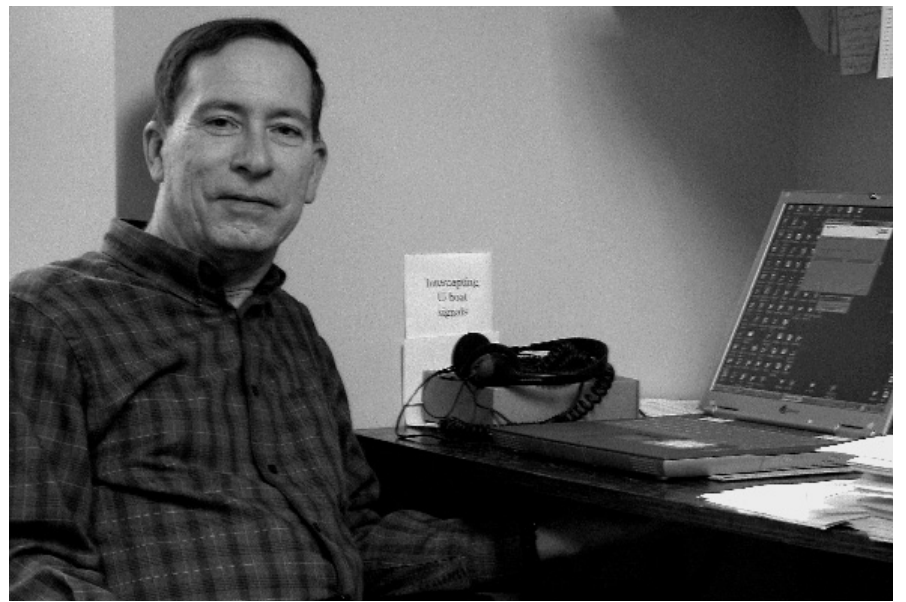
Business and government uses these advances to their advantage. Credit card companies use an artificial neural network that instantly checks your purchase against your usual buying habits. Hand and voice recognition grew out of statistical studies. An ambitious computer program that considers school district, address, and variables such as number of bedrooms and bathrooms can value your home with great accuracy.

But what's that got to do with saving lives and improving the quality of life? Not enough, says Marsh, whose research includes work with the Centers for Disease Control to determine how effectively immunization programs are reaching low-income, at risk and disadvantaged populations. Others in Marsh's department—economics and

econometrics—study the impact of various housing and banking policies on the poor, environmental policy issues such as transnational pollution, the impact of international banking policy and the impact of the Internet economy.

In his lighter moments, Marsh views the revolution in charmed terms. "Like Harry Potter, statisticians deal with unobservables every day. They are the wizards of the 21st century."

But with so many good ideas not adopted, he urges people to make better use of the tools they are being presented. "It's a real tragedy that people don't see the obvious. The world would be much better off."



Marsh

Artists experience 'divine encounter' at 'Epiphanies of Beauty' conference

By Catherine McCormick

David Solomon, White Director of the Center for Ethics and Culture, has organized a fall conference every year. This year's topic "Epiphanies of Beauty: The Arts in a Post-Christian Culture" worried him.

The topic was an appropriate one for the inaugural year of the Marie P. DeBartolo Center for the Performing Arts. But, says Solomon, "I'm used to working with philosophers and theologians." This conference was to include artists.

By all accounts, "Epiphanies" exceeded all expectations. With more than 600 in attendance, it was the center's most successful of five annual conferences. The experience brought together a diverse group including working painters and musicians, architects, parish priests, poets, lawyers, undergraduates, theologians and philosophers. More than 120 academic papers were delivered in McKenna Hall, where samples of the participants' art extended the conversation to the social spaces.

The phrase "Epiphanies of Beauty" is from Pope John Paul II's Letter to Artists, which says artists can give others a chance to encounter the divine in our increasingly secular world.

"Most people picture artists as rebelling against religion, but on the contrary, many are discovering the divine through their art," Solomon said. "After the conference, one artist told me she couldn't sleep because she was so inspired by what she heard; she couldn't wait to get into her studio."

As a practical response to Notre Dame's Catholic mission, the conference provided a meeting ground for artists. "Some of the artists work alone, and are lonesome, painting from their own spirituality, and they found working friendships with those of similar interests," Solomon said.

Solomon's personal highlight was the honoring of William Schickel, celebrated artist and Notre Dame alumnus, who remains on the cutting edge of art even in his mid 80s. "He mentioned the inspiration he got from his teachers and the traditions at Notre Dame in the 1940s, and yet he is still daring, still thinking, not bound by the limits of tradition."

(A more complete report of the conference is available online at newsinfo.nd.edu.)



Katie Freddoso of the Center for Ethics and Culture helps Andy Wendelborn hang a painting in McKenna Hall for an exhibit of work by 20 artists that complemented the Epiphanies of Beauty conference. **Photo by Matt Cashore.**

Computer or not, he ‘disciplines’ data

ND Works staff writer

When you feel like technology might be taking over just a little too much of your life, it’s good to sit down and have a chat with someone like Fred Baumer.

As a member of the University’s accounting team since 1967, Baumer was around when Notre Dame’s finances were handled manually. “When I came



Baumer

here, the University’s general ledger was a hand-written document. It was an accounting book that was a foot high and had to be wheeled around on a cart.” He has been in the controller’s office since the first computerized general ledger system was introduced.

Baumer was the University’s controller from 1976 to 1997. He remained in the Controller Group as assistant to Drew Paluf, assistant vice president and controller, first full time and now part time.

When the University transferred to the computerized accounting system in 1972, Baumer says he was more than ready. Automation just had to come to a University whose financial complexity was growing so steadily, he says.

The second of the software transitions he oversaw—in 1994, to an on-line accounts system—might have come just a little bit slowly for his tastes. The project allowed budget managers to view their accounts on-line, and the accounting office to phase out regular paper reports.

Recently, he watched—and lent assistance (in small measure, he says with modesty)—as his successors phased in the new accounting system that is part of the Renovare administrative software replacement project.

Those successors, like Paluf, think what Baumer brought to the table was key. First, he’d been on both previous software transitions.

More importantly, he has a true gift for stepping back from the delivery method—whether paper ledger or computerized database—to see how the information should be presented.

Baumer, Paluf says, was instrumental in identifying that the new financial system would not report endowment activity with the detail and precision of the old software. He and other members of the Controller’s Group and the Office of Information Technologies brainstormed about the alterations the new software

would have to undergo to replicate the rich reporting practices adhered to for several decades. At the end of the day, the decision was made to build this module “in-house” to ensure proper consistency over endowment accounting.

“Fred understands what really has to be processed,” Paluf says.

Baumer calls this skill “disciplining data.”

“If I’ve had a talent beyond understanding accounting, it might be I do fairly well at that,” Baumer says.

While three software transition projects should identify Baumer as technologically savvy, he calmly rejects all kinds of technological tools. He reads e-mail, but prefers to reply by telephone, and he doesn’t use the voice mail system. The Internet is what he and his wife, Barbara, use to make vacation plans, but it is not where he does his accounting. When he files his income tax forms, it’s by snail mail.

He employs this rule of thumb: use the technologies you’re going to use every day and that will become second nature. If you’re going to use something rarely, you’re likely to forget what to do and will lose time trying to relearn them.

And as efficiency goes, that’s not a good bottom line.

Annual report continued from page 1

What does Paluf point to as highlights? He sounds as much like a news announcer as an accountant as he lists points that he believes any University citizen – accountant or not – could appreciate:

- First, he says, there’s the investment return, which is exceptional. “That is evident in every part of the report. The return this year was slightly over 20 percent. That’s funding for financial aid programs and support for our academic mission. It’s just huge,” he says.
- You can see how much the University spends in a year for operational activities: \$584 million.
- You can see the level of capital investment required for additions and improvements to our physical plant: \$54 million.
- You can hear from our officers. President Rev. Edward A. Malloy, C.S.C. and Provost Nathan Hatch report on academic and strategic initiatives; John Affleck-Graves, new executive vice president, describes the financial activity from the past fiscal year and the tasks ahead for him.

The Annual Report team is comprised of the most seasoned members of the Controller’s Group, which itself is comprised of many a convert from the public accounting world: Associate Controller Tom Guinan; Assistant Controller James Kieft, and Schroeder.

To give the publication its elegant look and rich content, including academic highlights, group members work with the Office of Public Affairs and Communication editor Cynthia Maciejczyk and Engineering Graphics designer Marty Schalm. The editorial content may have more prose than numbers, but publishing it remains an accountant’s task, as the team compiles source documentation to support every referenced fact. Kieft has stacks of reference reports in his office, with key points carefully underlined in green, the lines themselves made straight with a ruler.

They and the report harness and summarize the work of their colleagues, who are numerous and not necessarily members of the 50-member Controller Group. A \$4.6 billion entity is a complex one, and Paluf’s accounting staff does not include the budget planners, the people in development who bring in gifts and donations; the investment staff that turns those dollars into income, or the legions of accountants throughout the University that handle the financial and managerial affairs of the colleges, departments, institutes and programs.

No wonder Paluf thinks of Notre Dame economics in terms of a small city.

After four and a half months, Kieft was putting the Annual Report project behind him and was ready to start new challenges for which he, Schroeder and Guinan will again wear white shirts. One, in particular, seems to call, instead, for a break-out outfit; perhaps a casual knit shirt. They’ll be testing how the new Renovare-related financial software systems will perform on 2005’s year-end account summaries.

Violinist’s investment pluck reaps strong return

ND Works Staff Writer

Carolyn Plummer is a musician and associate professor of violin by trade. But when she fiddles around on her free time, she loves investing.

“It’s the most complex world I’ve ever seen, and I’ve been lucky,” she says

“I’m not a guru. I read a lot of books and try to learn from the great minds in the business. I just try to look at big pictures and buy quality companies that show accelerating quarterly earnings growth.

Plummer is receiving unusual attention of late as a participant in the Barron’s Challenge, a 2 1/2 month investing contest that includes students and college professors. By Dec. 15, Barron’s, the weekly investment magazine, will award prizes to the student and the faculty member whose portfolio earned the highest return.

Midway through the competition, the Barron’s staff informed Plummer that she was among the top contenders. Her twin, Kathryn, a viola professor at Vanderbilt University, joined the contest on Carolyn’s advice as a means of introducing Kathryn’s 16-year-old son to investment markets. Kathryn’s return was running only slightly behind Carolyn’s. (Both were featured in a Barron’s story about the contest’s progress.)

Plummer’s return rate of around 10 percent is far from the nearly 40 percent returns being registered by the very best competitors. A touch of conservatism informs her steady run with the theoretical \$100,000 that the challenge allowed her: “I decided I would approach the contest as I would with my own money—my real money.”

For example, she has sidestepped investing in Google, whose recent foray into public trading was highly controversial. As the holidays approach, she considers slowing her trading activity. At year’s end, she has observed, corporate maneuvers for tax purposes can make the market volatile.

As long as everyone understands that she is not an expert at investing, Plummer will share her secrets: She does her homework on everything she buys, making good use of numerous free resources including Yahoo’s Internet finance resources. If she’s making short-term trades, instead of holding something for the long run, she consults a professional, real-time data source. She assumes a corporation’s financial reports are unreasonably rosy. She learns from her mistakes, the most costly which occurred to her during the dot.com bust. She knows that an awful lot of what she gains involves luck, and sometimes her decision comes down to following a hunch.

Plummer became her own investment analyst and broker after a foray into the stock market during her 20s. She worked

with a major brokerage house, and just didn’t feel they were working in her best interest. Raised by a mother who had run the family finances, Plummer says she felt capable of managing her money and confident a woman would be wise to do so.

Plummer is not comfortable dispensing investing advice, but she has a few observations on personal finance from her viewpoint as a musician. “We don’t make astronomical salaries. It’s important for people in the arts to put as much in an investment account as they possibly can.” As she has said to her twin: if there’s a work-place retirement account, put in as much as possible.

When she has the chance, Plummer will address investing with her students because she knows how rare personal finance lessons are in a performance education.

She points out the similarities of music and the market. “There’s fear in investing. And there’s a lot of fear in music. And just as you don’t want your musical career judged by the quality of one performance, so the success of your portfolio will not be settled by one trade.”

And then she encourages her students to start investing immediately, if only a little. “If they just take a little bit every month, they could be set for life because of compound interest. This, with dividend reinvestment, can really add up.”

“I wish I’d started younger and done more,” she says.



Plummer

Riddle: When is a telephone a computer?

VoIP system to deliver next-generation communications

By Gail Hinchion Mancini

So you think a telephone is a black corded device that rings and gives you a dial tone?

Not to worry: even though the coming generation of telecommunications will have lots of bells and whistles, your phone will still behave like a phone if that's all you want it to do, according to Dewitt Latimer, assistant provost and chief technology officer.

This fall, the University signed an updated contract with telecommunications provider SBC Communications Inc. that will move the campus toward an integrated digital communications system in which both computers and telephones will be able to tap into the University's databases via the Internet.

Called Voice over Internet Protocol (VoIP), the new system will allow some futuristic means of message delivery. "Follow me, find me" will allow incoming calls to be delivered to various phone numbers on a schedule customized by the user. E-mail will be able to deliver voice mail messages and voice mail to deliver to e-mail messages. Employees who commonly "work the phones" with donors or clients will be able to display client information drawn from Notre Dame databases onto a telephone-mounted mini-computer monitor.

It will take the University three to five years to introduce the new telecommunications system to all employees, Latimer says. Following a testing period with a limited number of staff this spring, the Office of Information Technologies (OIT) will begin phasing in the system by giving it to those who are most anxious to use it.

Employees who keep in constant contact with the University will be among the first to be offered the technology. Also among the first will be those moving into new or renovated buildings, where the system will be installed as a matter of course. The rest of us will join the new system through a building-by-building plan starting in early 2006.

If you don't use a computer now, you won't need one to use this phone. If the system's advanced features don't fit your work life, you won't need to activate them. "Your phone will do what it always has: Give a dial tone. Ring," Latimer says.

Notre Dame has been an SBC telephone customer since 1992 and it holds a contract with Centrex for the telephones we now use. With the Centrex contract ending in 2006, OIT decided to work with SBC toward a new program that would represent a better long-term communication strategy. The new system costs no more now while providing these added technologies, Latimer says. As more users join the VoIP system, its cost will go down.

A checklist on winter driving from the sages of ND car care



Woolley. Photo by Bryce Richter

By Lucy Jones

Hank Woolley and Fred Taghon are the last people who would need a radio car maintenance program. Click and Clack don't have a thing on these seasoned mechanics of Notre Dame's motor pool.

Woolley, a 24-year employee of Notre Dame, and Taghon, a 14-year veteran, maintain the University's 285-vehicle fleet and those of the Holy Cross order. From their headquarters in the Maintenance Building, they have seen broad changes in vehicles and work needed to maintain them. If they had to learn every maintenance skill on today's computerized vehicles, they'd be in school more than the Notre Dame students.

"You think medicine's specialized?" says Taghon. "It used to be that you'd have five mechanics in a shop, and you could bring your car into any one of those five and they'd know what to do. Now you have specialists. If you complain that your vehicle isn't accelerating or idling properly, the drivability guy works on that. Then you have a guy who is a steering and alignment specialist."

Woolley adds, "That's what you have at dealerships now, because there's just too much happening too fast. Here, we're still generalists."

As generalists, Taghon and Woolley are able to address most problems. For complicated and time-consuming jobs they, they, too, turn to off-campus specialists.

They both collect antique cars. "I'm a car nut, and everything I like is from the '50s," says Woolley. "It's rewarding to be able to work on something that you can drive, too."

He sometimes has to scour the country for parts for his '51 Hudson, '60 Studebaker Lark and '53 Studebaker Commander Starlight, which is not yet running. "You can't just go down to the auto parts store and ask for a part. They won't know what you're talking about."

Asked for a check list on winter car maintenance, Taghon and Woolley illustrate that time-honored advice remains the best advice.

CHECK YOUR TIRES FOR WEAR AND PRESSURE: "When the ambient temperature drops, so does the pressure in your tires," says Taghon. "Pump them up."

CHANGE THE OIL: "When you have fresh oil," says Taghon, "you're going to have fewer problems getting the motor going on a cold morning."

WHAT ABOUT ANTI-FREEZE? Woolley recommends a 50-50 mix of water and antifreeze. Have the antifreeze checked during oil changes.

PACK A SAFETY KIT: Woolley recommends every trunk carry a shovel, some sand, and a blanket. Some people add a portable air compressor.

KEEP THE GAS TANK FULL: First, a full tank of gas prevents gas-line freeze. Taghon adds, "If you're disabled, a full tank will let you keep the heat going."

TURN OFF YOUR WIPER BLADES: Wiper motors and the blades can be destroyed when asked to operate before the windows are cleared and warmed.

WASH THE CAR TO GET THE SALT OFF: "But if you wash your car one day, and the next morning the temperature is down to 15 degrees, your locks may be frozen and you may not be able to get into your car," Taghon cautions.

Taghon and Woolley have seen some classic instances of amateur car care. Woolley's favorite involved a dining hall cook with an older Cadillac that had power locks. One night, those locks froze.

"So he goes back into the dining hall and gets a bunch of hot water and dumps it on his door and his door lock," Woolley recalls. The trick allowed the cook to get into the car, but the locks froze again almost immediately, trapping him inside.

"You know, they tell you to use hot water," laughs Taghon. "But it actually freezes faster again than cold—dissipates much faster in the ambient temperature."

Be careful with power windows and power locks; their motors break easily when under stress, he advises. "Wait until your car is warmed up, and everything should work fine."



Taghon

Diary of

What happens when a 22-year-old college graduate working his first job is sent out on the road with an expense account and a couple of old maps?

Jacob Baska, admissions counselor from upstate New York to recruit next year's freshmen



At Maggie Walker Governor's School in Richmond, Va., senior Emily Wauford follows up her meeting with Jacob Baska with some research. *Photo by Walker student David Goode.*

I've found that I've often had to explain myself over the last few months to family, friends, and general well-wishers who know I work for the Notre Dame admissions office but who need to ask: What do you do? The answer: I read applications (more on that later), and I go on the road.

The Admissions Office has broken the world up into 15 regions—one per counselor. Each counselor reads the applications from their region but also visits high schools and college fairs in their territory. Every fall, our staff scatters like refugees, wandering the land in search of their next high school visit or a Starbucks—whichever comes first or has more convenient parking. My region is comprised of the vastly different states of New York and Virginia, and I am to cover them in three trips.

What's it like to be on your own, the lone representative of Notre Dame? I realize that's what I was going to find out, along with experiencing life on an expense account. Some observations that define me: Fancy dining for me over the last few years has been going to Bruno's for a pizza instead of Papa John's. I grew up Vermont, so urban environments also are not the norm for me. And high school kids shouldn't be looking up to me. I was in their shoes five years ago!

IT BEGINS

My first trip is through western and central New York and it looks easy: Fly into Buffalo; visit schools. Drive I-90 to Rochester; visit schools. Drive more I-90 to Syracuse; visit schools. Drive to Albany, visit schools, fly home.

I learn on this trip that two-hour drives breed a distinct train of thought: mundane. For several miles, I ponder the McDonald's cashier in Rochester who gave me a Canadian penny in my change. Was she intentionally passing that off, or is she just clueless about American currency? I pass an extended period wondering: Were the Beatles really that much better than the Rolling Stones? Everyone always seems to think so. But the Stones were edgier and more willing to lay down some real emotion. Maybe this whole Beatles-Stones thing is more like Ali-Frazier where the competitors were evenly matched but one side is more celebrated than the other.

I break up the monotony of the road with thoughts of families that I have met. At my information night in Syracuse I met a girl and her father from Malone, N.Y. As a native of New England, I know Malone, and is both in the middle of nowhere and a 3 1/2 hour drive from Syracuse. This girl had torn her ACL in a soccer game the week before and made the drive in a leg brace and crutches. Why? To hear about Notre Dame's admissions standards. Moments like meeting this girl remind me of the powerful emotion that Notre Dame generates. And here I am, I think, a "keeper of the keys."

Other times, especially while driving the rolling hills of central New York, I wonder what my trip New York City will be like. For all I know, I will be driving the Dantean circles of hell with every level leading me closer to the ultimate pit of doom and destruction for a New Englander—Yankee Stadium.

THE HIGH SCHOOL VISIT

I keep in constant contact with two people out on the road—my girlfriend and my mom. I call my girlfriend because I honestly enjoy hearing her voice and about her day. My mom calls me to make sure that I'm still alive. With either one, the talk always turns to how my day was and how my high school visits were.



Jacob Baska plots the three legs of his recruiting trip from his office in the Administration Building. *ND Works photo.*

a rookie

te
xpense

is counselor, takes us on a journey
Richmond, Va. as he attempts to
en.

If I need to describe the “bread and butter” reason for travel, high school visits would be the bread: sometimes they’re sweet and moist; other times they’re stale and make you wondered why you bothered. We travel so that we can meet with high school students in their natural habitat and to reach those who can’t visit Notre Dame. We meet guidance counselors to exchange information on our admission process and the strengths of their programs.

While visits have familiar patterns (note: always look for the flagpole if you’re trying to find the front door of a school—they’re near one another), every visit has its surprises. In Hempstead, N.Y., on Long Island, I am touched that guidance counselor Kathleen O’Neill made me tea and snacks, and her students are so kind. In northern Virginia, I lose more than half my visit time to a fire drill.

In Richmond, I meet with three students at a special magnet school. They amaze me with their questions. All students ask about SAT scores and financial aid and programs, and these three did. But they also ask about how the dorms are set up, and what kind of food is in the dining hall, and whether we have a campus radio stations, My favorite: do students here like baseball? The girl who asks really loves baseball and wants to know her passion will survive college. Something about their smiles as I leave lets me know they can visualize themselves as students here. This is my model for a successful high school visit.

And the unsuccessful visit? Does it exist? On a visit to an all-girls Catholic school in Manhattan, no students show up, but the counselor has a surfeit of time to meet with me. Filling her in on our new performing arts center, I mention Regis Philbin has underwritten a space. His name triggers a slew of celebrity name drops and unsavory details: which celebrities’ daughters attend the school, which famous politician’s daughter has an Italian last name but really looks Slavic, which celebrity parents get plastic surgery, whose celebrity daughter is slightly husky. I grow uncomfortable and wonder how I am supposed to respond. I nod my head and mumble responses that are polite, and yet not: “She’s husky? No! And Slavic-looking as well?!”

Most counselors are professional and friendly and interested in helping their students. But New York City counselors distinguish themselves as isolated and oddly out of tune with the non-East-Coast universe. I conclude this in Brooklyn. At one high school, the guidance office secretary professes knowledge of Notre Dame football and its famous fight song. And then she asks where the school is in Connecticut. When I tell her that it was in the Indiana part of Connecticut, her jaw drops and she says, “Indiana! That’s ... that’s like a whole world away.” I don’t think much of this incident until I meet with the guidance counselor, who asks the same question. I am pleasant, but have a rewarding internal conversation in which I decide: if I were a guidance counselor, I’d be able to locate where the top 20 schools in America are even if they had tricky names like “Notre Dame,” “Stanford,” or “Northwestern.”

Some of these visits give me doubts, and I ask my girlfriend and my mom: What’s the point of going to some of these schools? They remind me it’s because sometimes you do find the ideal: you meet kids and counselors who are interested in Notre Dame and you help them. And those are the satisfying visits.

VERMONT BOY TAKES MANHATTAN

I am a product of rural Vermont, and I’m going to “take” Manhattan. In my favor: urban driving practice to visit family in Chicago; a semester in London, so I had lived in a big city.

On my third trip, I am to drive from the Newark, N.J. airport to Manhattan, then to Long Island and Westchester County, Conn. It is early evening as I approach the Lincoln Tunnel, the famous passage into the city. Traffic is clear, the skyline looks inviting. I calm myself

by repeating this mantra: “I can take this. Left on 34th Street. Left on 3rd Avenue. Left on 63rd. I can take this.”

Leaving the Lincoln Tunnel and entering New York isn’t just about coming out of dark and into the light. It’s like being sucker punched. Buildings that had seemed far off suddenly are on top of me. I can’t see the sky, but there are flashing city lights everywhere.

And people. People walk around at all points of the street with no regard for crossing areas. Cars swerve in and out of traffic with no warning and no apparent regard for pedestrians: hundreds of pounds of steel surging in unpredictable directions, dodging human flesh that seems oblivious to the steels’ presence. My hands grip the wheel; my eyes dart from side to side. I am no longer chanting a mantra; I am forcefully repeating the directions that were going to get me out of this mess. At some point I start counting off roads, but it’s hard not to be distracted by the sights. 45th. 46th. 47th. Watch out for that taxi. 48th. 49th. Man, that’s the biggest Taco Bell I’ve ever seen. 50th. 51st. Pothole!

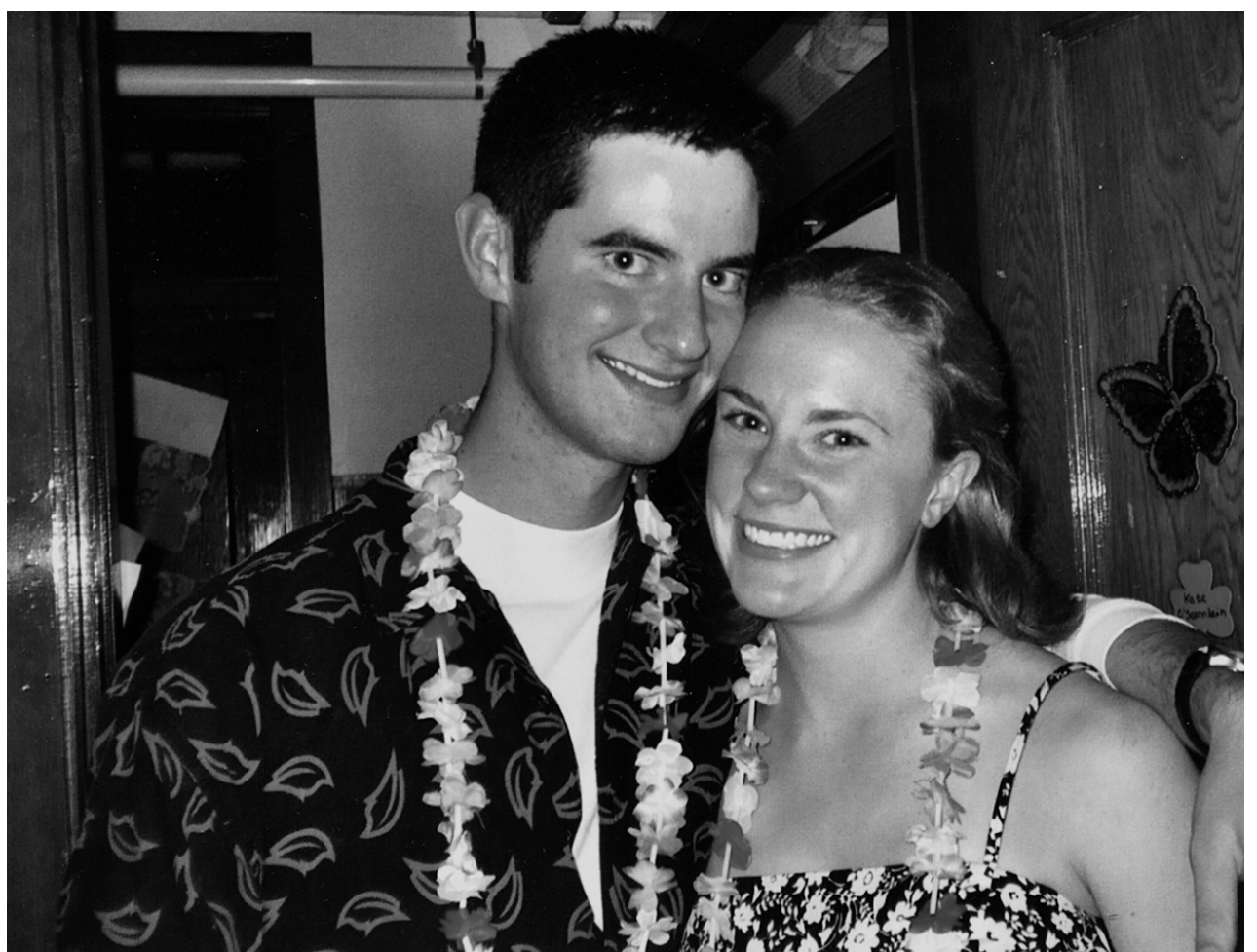
At 63rd, I slam on the brakes and turn before anyone can walk in front of my car. My hotel is just down the block and I pull over as soon as possible.

NOW FOR THAT OTHER WORK

The road trip behind me, it’s time to reads applications and admit the upcoming freshmen class. Can someone only 22 years old, a few short years removed from high school, really do this well? I will have a hand in determining the fate of thousands of high school students, some whom I have met face to face. This next adventure also will be a learning experience, and this time I won’t have room service to make the job easier. This is no time to give up regular conversations with my girlfriend and mom, and a very good time to remember my important new skills: nodding and affirming (“Husky, you say?”) and counting down the mile markers until I’m done.



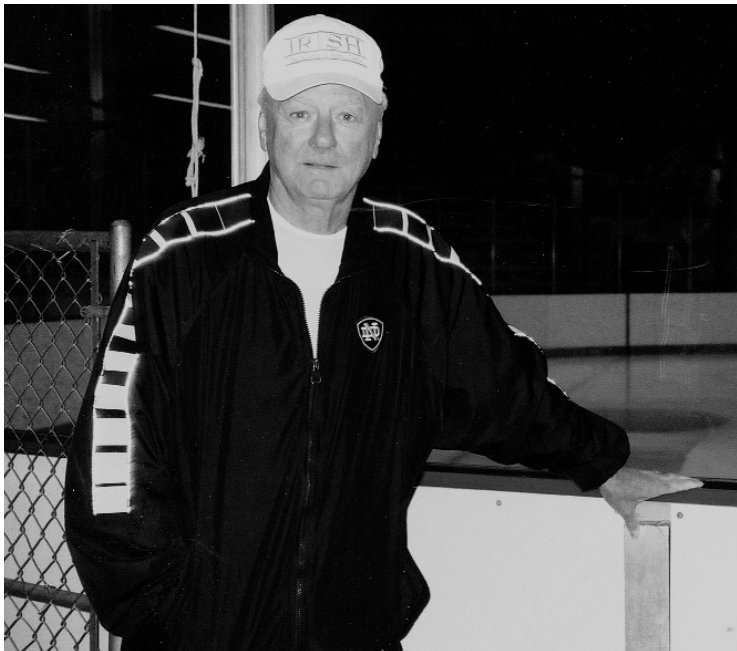
In Hempstead, N.Y., students Meghan Gallagher (top left) and Ryan Gill and, seated from left, Lauren O’Leary, Erin Folan and Sarah Watterson, and guidance counselor Kathleen O’Neill gave a road-weary Jacob Baska tea and snacks. *Photo provided by Barbara Carroll, Sacred Heart Academy.*



Jacob Baska relied on family support while traveling. Every day from the road, Baska called his girlfriend, Maureen Bresnahan, pictured with him above, and every day Baska’s mom called him. Baska and Bresnahan were Notre Dame undergraduates together. *Photo provided.*



Larry Grant prepares to groom the ice aboard one of the rink's two Zambonis. The staff took delivery this week of a new Zamboni that will replace the older model, which has been on the job since 1968. **ND Works staff photos.**



Ice rink manager John Murray has been involved with ice hockey most of his life.

Fun on the ice... and other ways to chill out

By Catherine McCormick

If you want to chill out during the season of ice and snow, John Murray is hoping you'll visit him. Or try the Notre Dame Golf Course for cross country skiing.

Murray, manager of the Joyce Center ice rink, has always been at home with busy situations in chilly places. A retired history teacher and football coach from LaSalle High School in South Bend, he has managed the rink for 10 years, and worked part time on weekends for 10 years before that. He grew up in snowy Buffalo, N.Y., and played hockey as a youngster.

"The main reason for being here is hockey, but we're happy to have the University community come to skate," he says. "Many retirees and faculty come to the open skate sessions, or play hockey in the recreational league. Some have been coming for 20 years. We also have faculty who bring their home-schooled children."

The ice rink will welcome the holiday season with a skating party for faculty and staff families from 5 to 7 p.m. on Friday, Dec. 17. Santa will walk (slowly) across the ice, visit with children and hand out candy. Free cookies and hot chocolate will be served. Skates can be rented free, while they last.

For families, what is the main attraction at the rink?

"All the kids love the Zamboni," Murray says. He has two full-time and three part-time Zamboni operators. Besides grooming the ice, they maintain the building and the refrigeration units that freeze the ice. They also sharpen skates used by six physical education classes a week.

For kids who hope to drive a Zamboni some day, Murray says practice is the key. Drivers start out by viewing a video from the Zamboni manufacturer, and then undergo 24 hours of supervised driving by a full-time experienced operator.

Open skating is available for staff, faculty and students from noon to 1 p.m. Mondays, Wednesday and Fridays until Friday, Dec. 17. After the holiday break, open skating will resume Monday, Jan. 17, and continue until Wednesday, March 30, when the refrigeration is turned off and the ice comes out. Tuesdays and Thursdays, faculty and staff can play hockey during the noon hour.

Identification cards must be presented to skate, and skates can be rented for \$3. Faculty and staff can bring their own children to open skating, but not relatives or friends since parents may sign liability waivers for their own children only, according to rink rules.

You are welcome to bring your own skates, if you have them, says Bill Reagan, assistant director of RecSports, especially to the family skating party, since some sizes go fast. Registration is not required for the party, but participants must present a Notre Dame ID card, Reagan says.

"Open skating is a fabulous resource," says Alain Toumayan, associate professor of French and a former youth hockey coach and official. Although he likes the idea of the Tuesday-Thursday hockey league, he prefers the workout he gets during the open skating.

Across campus, the nine-hole Notre Dame Golf Course plans to open for skiing the weekend of Jan. 14, 15 and 16, if there is enough snow. Skis can be rented for \$5 daily, or \$10 overnight, at the west end of the Rockne Memorial. Hours are 2 to 5 p.m. Friday and 1 to 4 p.m. Saturday and Sunday. A ski clinic is planned for Saturday, Jan. 29. Updates on skiing and snow conditions are available at 631-6809.



Scott Berzai sharpens skates for classes and the public. He has worked at the rink since 1999.

Holiday spending, consumer confidence up

If you're an average U.S. consumer, you likely are spending about \$700 this holiday season, or 4.5 percent more than last year. And you're more likely to be doing it by using the Internet, says James X. Sullivan, assistant professor of economics and a specialist in labor economics and public finance.

Sullivan watches economic indicators such as the National Retail Federation and sees some reasons why Americans are spending more on the holidays than originally expected.

"U.S. job growth soared in October, surpassing even the most optimistic forecasts, reversing months of sluggish hiring that left consumers worried about the strength of the economy," Sullivan says.

"Oil prices, while still high, are down from the peak in late October. Also, retail sales exceeded expectations by rising a modest two-tenths percent in October," Sullivan says. "Together, this information suggests that consumers may have more to be confident about entering the holiday shopping season."

A recent Forrester Research Report projects that U.S. consumers will spend 20 percent more buying gifts online this holiday season than they did at the same time last year, Sullivan notes.

Business ethics expert featured in new book

If you hear a new story about a priest, a minister and a rabbi, the role of the priest may likely be played by Rev. Oliver F. Williams, C.S.C., associate professor of management and director of the Center for Ethics and Religious Values in Business.

Williams' views on the interplay between religious values and the world of business are featured in a new book by Fortune magazine senior writer Marc Gunther that addresses the reform of American business.

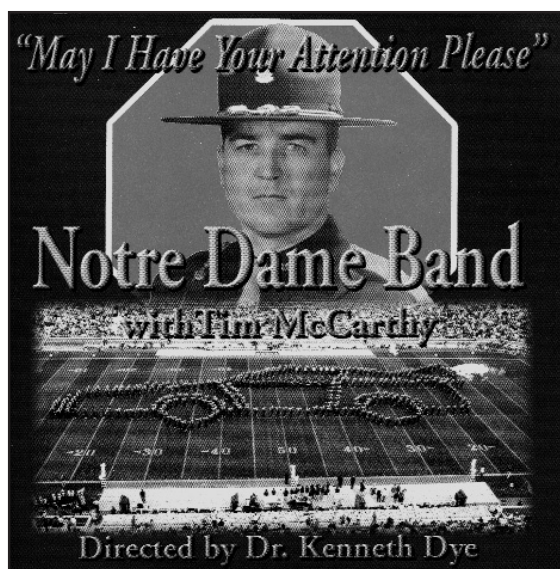
Titled "Faith and Fortune: The Quiet Revolution to Reform American Business," the book tells the stories of corporate leaders who are at the forefront in building businesses in which profits and values coexist. Gunther interviewed Williams for a chapter titled "A Priest, a Minister and a Rabbi."

Among the issues he explored with Father Williams was the change in Catholicism's position on business—from the medieval belief that commerce was "at best tolerable and at worst pernicious," to a fundamentally favorable view. Citing two influential documents on the subject—the U.S. Catholic Bishops' pastoral letter "Economic Justice for All," written in 1986, and Pope John Paul II's encyclical "Centesimus Annus" five years later—Father Williams said a "sea change" in Catholic social teaching has rejected socialism in favor of capitalism, but only a capitalist model in which business and the economy serve humanity, not vice versa.

"I'm going to go to the wall over saying that the priority of labor over capital is a good principle, and is rock bottom, and is never going to change," Father Williams told Gunther.

As part of his research, Gunther attended Father Williams' MBA class, titled "Business, Religion, and Spirituality."

Father Williams has directed the Center for Ethics and Religious Values in Business since its establishment in 1978. He specializes in understanding how the ethics of virtue might inform the ethical conduct of managers and is the author or editor of 14 books.



McCarthy pun-ch lines are part of new band CD

By ND Works Staff Writer

Need the gift of humor for Christmas?

The Marching Band's new CD, "May I Have Your Attention Please," features 15 pun-laden safety announcements from Indiana State Police Officer Tim McCarthy.

Since the 1960s, McCarthy, a retired police sergeant, has used a pause during the fourth quarter of home football games to urge fans to drive home safely.

McCarthy has broadcast unique messages over the Notre Dame Stadium public address system, usually by employing puns. "Remember," says one, "Any time your driving looks fishy, you could become the catch of the day."

Over time, his announcement has become much anticipated, and the CD captures the thrill of the moment. As football broadcaster Mike Collins introduces McCarthy, the crowd applauds and howls with enthusiasm. Occasionally, as McCarthy completes his latest pun, spectators let loose a collective groan. But usually, you'll hear them applaud in approval.

Ken Dye, marching band director, conceived the idea of recording McCarthy's messages, "when I was walking through the Jacksonville, Fla., airport," he says.

"I heard the phrase 'May I have your...' and a light bulb went off.

I immediately called my voicemail so I wouldn't forget the idea. I desperately wanted to archive this part of Notre Dame history."

McCarthy and the band's directors selected what might be considered his greatest hits, and began recording them last February. McCarthy says he agreed to become a recording artist because "It's a good promotion for safety, and for the state police."

"I'm really flattered by it. In fact, I'm very tickled," says McCarthy, who modestly claims, "Nobody's going to buy any."

McCarthy's quips are scattered throughout the CD, which has 48 tracks including the Marching Band's classic pieces. Orders for the CD may be placed by visiting the Band's Web site at <http://www.ndband.com>, by calling 631-7136, or by stopping by the Band Building.



The punmeister himself, Officer Tim McCarthy, just before his safety announcement at the last home football game of the season.
Photo by Michael Bennett.

Recipe book a gift that fights cancer

By Catherine McCormick

Hot off the press and ready to be wrapped up for Christmas is a new cookbook organized by Deb Patterson, manager of Decio Commons.

Patterson is a cancer survivor and was honorary chair of last fall's Relay for Life, a University fund-raising campaign for the American Cancer Society. The honor prompted her to try the cookbook as a way to raise more money for cancer research.

Featuring 85 pages of recipes from Notre Dame staff, faculty and students, it will be available for \$6, and proceeds will go to Relay for Life.

The volume also provides tips on healthy eating. For example, JoEllen Welsh, a cancer researcher, advises: "Prepare meals in which a variety of fruits, vegetables, beans and whole grains take up at least 2/3 of the plate, with animal products taking up 1/3 or less. Such proportions can lower the risk for cancer, heart disease, stroke, diabetes and obesity."

Patterson says the book was a labor of love, and a way of giving back to the Notre Dame community, which was a great source of support during her battle with cancer.

"They showed me what the Notre Dame family is really like," she says. She titled the book, "Our Family Cookbook."

Patterson was diagnosed with throat cancer in 1999, and the treatment required removal of most of her voice box. She had more than 20 surgeries to remove scar tissue, but has regained the ability to speak without assistance.

Jessica Brookshire of Human Resources and co-chair of Relay for Life said that Patterson remained positive and dedicated to her work through her treatment. "The patrons at Decio love her and she loves them. In fact, Decio Commons is often referred to on campus as Deb's Place."

Patterson is well-known for decorating the eatery for Christmas from her personal stock of ornaments.

"I load up my big car, and my husband loads his truck. Last year it took us over four hours to put everything up. We have decorations on all the tables upstairs and down. People think it's better than a shop," she laughed.

She invites the campus community to check out her decorations and perhaps buy a cookbook this year.

"Our faculty is from all corners of the world, and the recipes in the book reflect the wonderful diversity of culture that we have on this campus," Patterson says. Examples are Hungarian Spaghetti, African Beef Curry and Mom's Irish Soda Bread.

The cookbook begins with a section on appetizers, dips and spreads, then goes to chapters on vegetables, soups, side dishes, salads, entrees and desserts, finishing with breads, butters and breakfast.

One recipe features spinach, tomatoes, mushrooms and feta cheese with pasta. For the holidays, there is a recipe for basmati and wild rice stuffing. Another recipe tells you how to cook a beef roast in crock pot with chili sauce, onion soup mix and a can of Coke.

The longest section, desserts, includes Eccles Cakes by retired Executive Chef Denis Ellis as well as Rhubarb Cake by Deb Patterson herself.



Deb Patterson hopes to share recipes and raise money for the Cancer Society through her new cookbook. ND Works staff photo.

Besides Decio Commons, cookbooks are available at Greenfields, Waddicks and the Law School. Books can be ordered by sending a check for \$6 to Deb Patterson, and she will send the book by campus mail. For questions, call Patterson at 631-6530.

SHORT TAKES

Shot or not, you can avoid the flu

It seemed as though Mary Poppins had passed through late last month when baskets began arriving at departments throughout campus, containing tissues, oranges, bottled water, hand disinfectant and a pamphlet on how to avoid the flu. (The secret: wash your hands and cover your mouth!)

The baskets were the brainchild of a committee of staff members from Work Life and from University Health Services.

Each year, says Dee Dee Sterling of Work Life, the two departments work together on distributing flu shots.

"This year was an unusual and challenging year with the shortage of flu shots," she says.

Working with fewer shots than they had anticipated, Health Services executed a modified flu shot program in November.

"We were concerned that with shots available only for high-risk groups, large numbers of students, faculty, and staff still could contract the flu and other diseases this winter," she says.

The group decided to launch a "germ fighter" campaign for the entire University. Within two weeks, members had assembled the baskets and, for student dining halls, table tents that carried the health message.

More than 250 baskets were wrapped by members of the health services staff then delivered to residence halls and departments. Our prime insurance provider,

North American Health Plan, helped underwrite the project. Food Services donated the water bottles and Procurement Services discounted the cost of the tissues.

The core Germ Fighter team consisted of Patti Brubaker, RuthAnn Heberle and Brother Louis Hurcik C.S.C. of health services and Jessica Brookshire and Sterling of human resources.

United Way wraps campaign

The University's United Way Campaign officially ended Nov 4, but pledge forms continue to trickle in. The most recent count shows University employees contributing \$305,457, or 93 percent of the goal of \$330,000, according to campaign coordinator Barbara Villarosa.

Pledge forms will be accepted through the year's end before the books are closed on this community fund raiser.

Villarosa says part of the

campaign's success is attributed departmental facilitators who rallied their colleagues to become involved. In the Graduate School, for example, leaders **Howard Hanson** and **Erin Ytterberg** collected sports items that they raffled to colleagues who participated in the campaign. Now in its second year, the incentive concept has increased participation from 30 percent to 70 percent.

Other facilitators were: **John Antonucci**, facilities operations; **John Barker**, investment office; **Bob Breyfogle**, radiation lab; **Ginger Chrapliwy** and **Rosanne Molenda**, finance division; **Gina Costa**, Snite Museum; **Bob Cunningham**, College of Engineering; **Sally Derengoski**, Department of Athletics; **Giovanna Edwards**, Office of Information Technologies; **Deb Fox**, Law School; **John Glon**, food services; **Doug Hemphill**, Mendoza College of Business; **Lori Kish**, procurement services; **Janice Love**, Integrated Communication Services; **Stephanie Maenhout**, registrar's office; **Holly Martin**, First Year of Studies; **G. David Moss**, student affairs; **Dan Skendzel**, business operations; **Bernardine Stein**, School of Architecture; **Beth Swift**, Office of Budgeting and Planning; **Barbara Villarosa**, Office of Human Resources; **Marjorie Wosick**, undergraduate admissions, and **Jennifer Younger**, University Libraries.

Several donors are enjoying an extra payoff for their generosity as winners of incentive prizes donated by several of the University's businesses. They are: **Jacquelyn Fuzey**, accounts payable, two airplane tickets from Anthony Travel; **David Leighton**, professor of chemical engineering, Gateway laptop computer from the Solutions Center; **Jay Louderback**, athletics, and **Scott Kachmarik**, resident life and housing, two tickets to an ND Presents event from the DeBartolo Center for the Performing Arts; **Jackie Strabley**, food services, a weekend in the Morris Inn; **Lynette Mischel**, Mendoza College of Business, \$100 bookstore gift certificate; **Leanne Knapp**, Security/Police, football tickets from

the Athletics Department; **Rev. Robert Sullivan**, history, dinner for two at Legends; **Barbara Sutton**, National Institute for Trial Advocacy, **Michael Standiford**, maintenance; **Deborah Maslowski**, International Student Services, and **Shelin Mathews**, OIT, food services credit to campus restaurants; **Jason Schroeder**, Controller Group, Catering by Design cookie bouquet; **Cheryl Barrette**, Morris Inn, and **Joyce McNarney**, graduate school, reserved parking in 2005, compliments of parking services.

Need a baby shower present?

Financial aid director Joseph Russo's new book "How to Save for College" suggests that parents begin a college savings account as soon as they know that they're expecting a child. For this year's newborns, four years of a private university education could cost up to \$250,000.

Like any good pre-birth baby book, Russo's guide offers comfort, and ways to avoid painful episodes. For example, parents often are not paying the full sticker price of colleges: over half of students receive financial aid. College costs may have risen, but almost every family can find a way to lower their out-of-pocket cost of attendance, at least marginally. The book provides tips on how to extrapolate tomorrow's costs from today's figures, and how to determine what your financial aid potential might be.

It also provides a guide to various federal, state, private sector and institutional savings program options, and a checklist of questions to ask before investing in them. There's also information on federally-sponsored loans, and issues to consider if turning to home equity, one's retirement plan or other sources to borrow money for college.

The book is published by Random House and co-written by James Belvin, Russo's longtime counterpart at Duke University.

Really...close those windows!

Around the third week of December, you're likely to get an e-mail reminder from Gary Shumaker, director of facilities operations, urging you to close your windows during Christmas break.

Seems an obvious request, it being winter. In many buildings, heating systems are near the windows. If there's a cold snap, the heat pipes freeze. When the thaw comes, they can burst, as happened in Grace Hall a few years ago.

But in the few years that he's sent the message, Shumaker says he hears from faculty and staff who say they haven't been able to close their windows for some time because something's wrong. No need to wait for the e-mail. You can report a window problem now by sending a Facilities Requisition to 100 Maintenance Center.



How do you wrap 250 baskets in the blink of an eye? University Health Services staff members Marsha Daviduke, from left, Gayle Strzelecki and Rosemary Rowland are among health services staff who were pressed to duty during day and night shifts. They gave leftover baskets to students who had to spend Thanksgiving on campus. **ND Works photo.**

WHAT THEY WERE DOING



Project Warmth is known as a student-run charity event sponsored by the Center for Social Concerns. But an unsung hero in this annual collection of coats for the needy is St. Michael's Laundry. Its staff washes or dry cleans every coat that is donated, providing spotting services when needed. With donated coats numbering over 1,000, the laundry staff collects them in 500-garment increments and bags the clean ones for distribution to area support agencies. Above, Kerry Wiczorkowski prepares to do another washing load while Sharon Riffle treats spots before a dry cleaning load. **ND Works photos.**





Empire Brass

FYI

Post office to move

On Monday, Jan. 10, the Notre Dame Post Office will be open for business in its new location on the north side of campus, says Postmaster Ellen Bystrom.

The post office is a federal agency, so it will remain open regular hours at its old location on Notre Dame Avenue during holiday break, 8:30 a.m. to 4 p.m. Mondays through Fridays, and 9:30 a.m. to noon Saturdays. The move will take place Jan. 8 and 9.

The post office will occupy the west half of the lower level of the new building, and have public entrances facing both Holy Cross and St. Joseph drives. There will be 13 parking spaces for customers.

The 24-hour lobby will have a new stamp vending machine and space to display packaging supplies and retail items. It'll be beautiful, Bystrom says.

Mass to honor Our Lady of Guadalupe, St. Juan Diego

The feast of Our Lady of Guadalupe (Dec. 12) falls on a Sunday this year, so her feast will be combined with the feast of Saint Juan Diego (Dec. 9) in a special Mass at 5:15 p.m. Thursday, Dec. 9, in Sacred Heart Basilica.

Music will be provided by the Notre Dame Folk Choir and the Latino choir Coro Primavera de Nuestra Senora. Rev. Richard Warner C.S.C., director of campus ministry, will preside. Ballet Folklorico will lead the Mass procession. Steve Warner, director of the Folk Choir, said participants can expect, "a fantastic liturgical experience."

Juan Diego's name is forever linked with Our Lady of Guadalupe because it was to him that she first appeared on Dec. 9, 1531 near Mexico City. The most famous part of his story involves the roses gathered in his cloak being transformed into the miraculous image of Our Lady of Guadalupe. Juan Diego was canonized in 2002. Our Lady of Guadalupe is the patron of the Americas.

Christmas party under the Dome

Wish happy holidays to your colleagues when Notre Dame President Rev. Edward Malloy C.S.C. hosts his final Christmas reception for faculty and staff from 2:30 to 5 p.m. Wednesday, Dec. 15 in the Main Building. Entertainment will be provided by the Handbell Choir at 3 p.m. and the Glee Club at 4 p.m.

Holiday break

Since Christmas is on a Saturday this year, the campus holiday celebration break will begin on Friday, Dec. 24. The break will run through Sunday, Jan. 2, 2005.

Give grades, get a cookie

The cookie tradition continues this year at the Registrar's Office. Faculty members who turn in their grades by 3:45 p.m. Monday, Dec. 20, will get a cookie in return. Those who miss the deadline should get ready for extra paperwork, and no cookie.

The registrar's online calendar <http://registrar.nd.edu/> has all the important dates for next semester, including the first class, which will be Tuesday, Jan. 11, and spring break, which will be Saturday, March 5 to Sunday, March 13.

Bargains at bookstore, Catalog Center and NDSurplus

If you missed the holiday 25-percent discount for faculty and staff at the Hammes Notre Dame Bookstore Dec. 1 and 2, you haven't run out of opportunities for bargains.

The Catalog Center discount store, 1610 N. Ironwood Dr., will be open through Dec. 23.

Hours are 9:30 a.m. to 5:30 p.m. Mondays through Saturdays.

Looking for used computers or office furniture? NDSurplus, 925 N. Eddy St., will have an end-of-year sale from 8 a.m. to noon Saturday, Dec. 4. Plan to pay by check or cash, and take your bargains with you that day.

The Hammes Bookstore will be open from 8 a.m. to 10 p.m. Mondays through Fridays, and 11 a.m. to 7 p.m. Sundays until Christmas. It will close at 5 p.m. Christmas Eve and all day Christmas. It will be open Dec. 26 from 8 a.m. to 7 p.m. for many happy returns.

Last-minute cleaning

You have until 7 p.m. Thursday, Dec. 23, to pick up any holiday finery you've brought to St. Michael's Laundry. It will close for the holidays and reopen Jan. 3 at 7 a.m.

This month, the laundry is cleaning winter coats at a discount fee.

Basilica posts Christmastime schedule changes

Be sure to arrive early to get a seat for Christmas services at Sacred Heart Basilica.

Christmas Eve Masses on Friday, Dec. 24 are at 5 p.m. and midnight,

with a choir performance at 11 p.m. Mass on Christmas Day will be at 11:30 a.m. There will be no vigil Mass on Saturday, Dec. 25.

The Basilica will have 10 a.m. Mass on Sundays Dec. 26, Jan. 2 and 9, and vigil Mass at 5 p.m. on Saturdays, Jan. 1 and 8. No New Year's Day Mass is planned.

Masses will be offered at 11:30 a.m. Jan. 3-10. The liturgy schedule for spring semester begins Tuesday, Jan. 11.

For the fall semester, the final 11:45 a.m. Sunday Mass and the final 7:15 p.m. Sunday Vespers will be Dec. 12. Final 5:15 p.m. Mass will be Friday, Dec. 17. The final 11:30 a.m. daily Mass will be Thursday, Dec. 23.

Advent in song

A campus tradition, the Advent Lessons and Carols Service, will be held at 7:15 p.m. Sunday, Dec. 5 in Sacred Heart Basilica. Participating are the Liturgical Choir, Women's Liturgical Choir, Folk Choir, Handbell Choir and Basilica Schola. The service is a variety of Advent hymns (with full participation by all) and Advent readings (seven total), interspersed with a choral meditation.

It's a great way to keep the focus of the Advent season truly on the coming of Christ, and it is a campus-wide celebration of the season, says Karen Schneider Kimer, director of the Handbell and Celebration choirs.

Get a workout with RecSports

Regular family hours will be cut back because Christmas is on a weekend this year, but if you need to work off a little pumpkin pie and let the kids burn some energy, RecSports offers several opportunities for exercise during December and early January.

ROLFS SPORTS RECREATION CENTER

Regular family hours:
Saturdays 9 a.m. to noon
Sundays noon to 2 p.m.
(Closed Dec. 24-26, Jan. 1-2)
Special holiday hours:
Dec. 27, 29, 31:
9 a.m. to 1 p.m.
Jan. 3-7:
6 a.m. to 7 p.m.

ROLFS AQUATIC CENTER

Sundays 2 to 5 p.m.
(Closed Dec. 24-26, Jan. 1-2)

ROCKNE MEMORIAL

(Closed Dec. 24 to Jan. 2, pool closed to Jan. 10)
Regular family hours:
Saturdays and Sundays,
2 to 5 p.m.
Special holiday hours:
Jan. 3-7:
6 a.m. to 7 p.m.

Updates to the schedule can be found at www.recsports.nd.edu or by calling 631-8REC.

2005 at the Snite

Several exhibits will open in January at the Snite Museum of Art. "Haitian Vodou Arts" opens Sunday, Jan. 9. "You're Not from Around Here: Photographs of East Tennessee by Mike Smith" opens Sunday, Jan. 16, as does "Art from the Inside: Drawings by Chicano Prisoners."

Performances ring in season in new center

The following concerts are in the Leighton Concert Hall of the new Marie P. DeBartolo Center for the Performing Arts.

Handel's "Messiah" with the Chorale and Chamber Orchestra will be at 8 p.m. Thursday, Dec. 2 and Friday, Dec. 3. Admission is \$6 for adults and \$3 for seniors and students.

The Glee Club Christmas Concerts will be 6 and 8:30 p.m. Saturday, Dec. 4. Admission is \$6 for adults, \$5 for faculty and staff, \$3 for seniors and students. Proceeds benefit the Center for the Homeless.

Two band concerts are planned for Sunday, Dec. 5. The Notre Dame Band performs at 3 p.m. and Jazz Bands at 7 p.m. There is no admission charge, but tickets are required.

The Collegium Musicum will be at 8 p.m. Wednesday, Dec. 8 in the Reyes Organ and Choral Hall. There is no admission charge, but tickets are required.

Empire Brass quintet Christmas concert will be at 8 p.m. Friday, Dec. 10. Tickets are \$44, \$35 for faculty and staff, and \$15 for students.

Tickets can be obtained from the Center box office in person or by phoning 631-2800, from noon to 6 p.m. Monday through Saturday.

FROM THE ARCHIVES



The holidays have always meant travel for members of the Notre Dame community. And while their destinations might be similar from century to century, their mode of transportation has changed. In "The University of Notre Dame, A Portrait of Its History and Campus," historian Thomas J. Schlereth reports that students from the West Coast once traveled home aboard the Zahm Special. University Vice President Rev. John Zahm, C.S.C., had the palace car built in 1885. It contained sleeping berths and a special diner run by chef formerly of Delmonico's in New York. The Zahm Special carried students, parents and friends home to Mexico City and Denver as well as cities on the Pacific Coast. *Photo provided by Charles Lamb, University Archives.*



Paul Helquist chats with competitor Ashley Fry. *Photos by Lou Sabo.*

Science, engineering faculty guide next generation of researchers

By Catherine McCormick

When Paul Helquist was a budding scientist in the 1960s, he had two experiences that lead him to where he is today as a professor of chemistry and biochemistry.

The first came at a National Science Foundation summer program he attended as a high school student. "It was cool to do real research with instruments, and some computer programming."

Later, as an undergraduate in chemistry at the University of Minnesota, he connected with a mentor who invited him to do research in chemistry, math and organic chemistry for three years.

They published two papers in scientific journals, and the mentor eventually helped him with decisions about graduate school. Helquist earned his doctorate from Cornell University in 1972. After a postdoctoral fellowship at Harvard University, he joined the faculty of State University of New York at Stony Brook then moved to Notre Dame in 1984.

Today, he is part of a Notre Dame team searching for new antibiotics and anti-tumor agents, and treatments for illnesses ranging from cancer to Niemann-Pick Type C disease (the disease being addressed by the Ara Parseghian Medical Research Foundation). But for a period last month, he stepped into the role that had been so useful for him: that of mentor.

Helquist served as the chief judge of the Midwestern Regionals of the Siemens Westinghouse Science and Technology Competition, a leading scholarship and awards program for high school students. The competition is nationally famous for identifying the coming generations of scientific researchers. Notre Dame has been hosting the Midwest Regionals since 1998.

Judging at his side was David Leighton, Notre Dame professor of chemical engineering, who took part in the Westinghouse Talent Science Search as a high school senior in 1976.

"It played a big role in my career development, and influenced me to pursue chemical engineering," Leighton says. "I learned how to do research before I ever got to college." He also formed a life-long friendship with another contestant who eventually became his roommate at Princeton University.

Today, Leighton also organizes the judging for the Northern Indiana Science and Engineering Fair for area students in fourth grade through high school, which takes place in March at Stepan Center. Working with the various science competitions is a way to "contribute back, and make opportunities for future scientists," he says.

Helquist praises the Siemens contestants. "They are highly talented, beyond their years. Many are doing graduate-level research. We want to give them further encouragement toward research careers." Regional winners will be in Washington D.C. Dec. 5-8 for the national competition. They will compete for a prize of a \$100,000 scholarship.

How does a high school junior or senior get to that level? Mentoring is the key, says Helquist. Many have opportunities to work with nearby colleges, or with special teachers in high school. Some attend academies that emphasize science and math.

Growing up north of Duluth, Minn., Helquist says he did not have the opportunities to do research that many current students have, but he had a high school physics and chemistry teacher who inspired him. "He has been retired for many years, and must be in his 80s, but I had contact with him last month." They still write to each other.

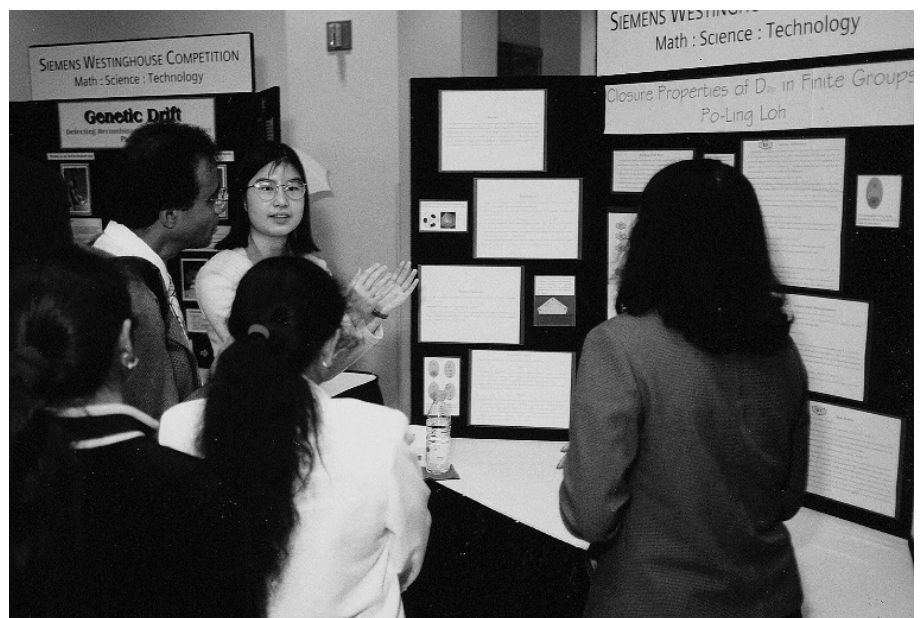
The Siemens Foundation regional competition is organized through the Office of Pre-College Programs and overseen by Joan Ball, director. Other regional hosts are Massachusetts Institute of Technology, Georgia Institute of Technology, University of California - Berkeley, University of Texas and Carnegie Mellon University.

During their weekend at Notre Dame, student competitors have more than just the opportunity to compete with one another or to win scholarship money.

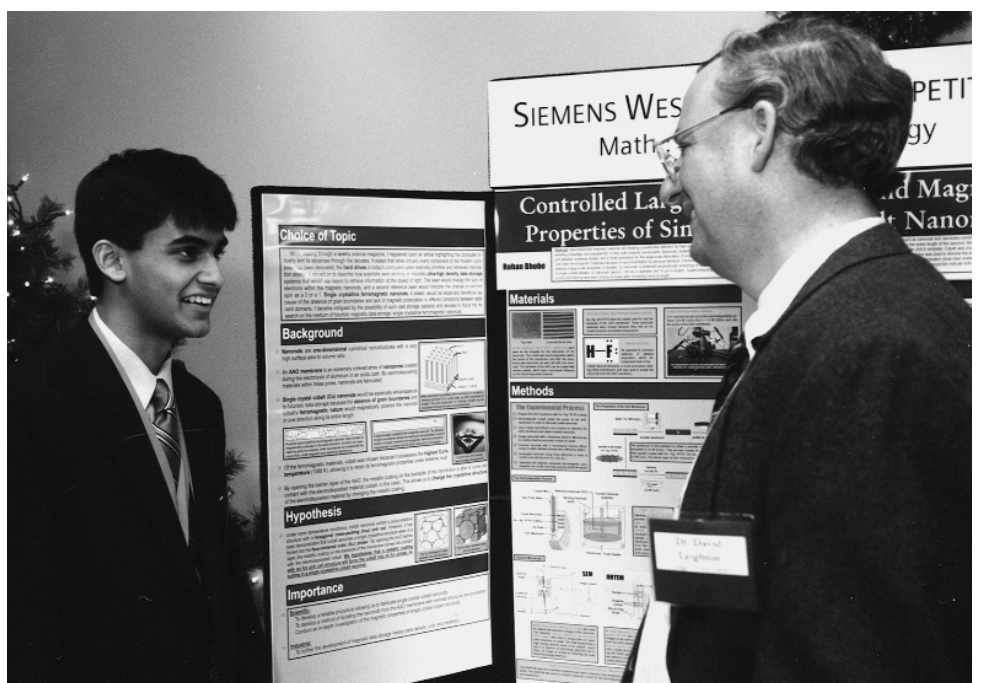
The University sponsors a presentation by a noteworthy speaker, the kind of brilliant scientific mind any would-be Nobel Laureate would be pleased to meet. This year, the speaker was Roald Hoffmann, poet, playwright and 1981 Nobel Laureate in chemistry. A native of Poland who was interned in a concentration camp during the Holocaust, he came to the United States in 1949 and studied

chemistry at Columbia and Harvard Universities. He is the Frank H. Rhodes Professor of Humane Letters at Cornell University.

It's a great opportunity to host the competition, says Dennis Jacobs, himself a professor of chemistry and an associate provost. It's an event where students, Notre Dame representatives and the Siemens organization direct their focus to pure scientific research.



Po-Ling Loh describes her project during the height of judging.



David Leighton, right, has competitor Rohan Bhoje describe the content of his project.