Sharon Stack and Matt Ravosa joined the University in 2011, coming from positions at the University of Missouri School of Medicine in Columbia, Missouri. Stack is the Ann F. Dunne and Elizabeth Riley Director of the Harper Cancer Research Institute (HCRI) and the Kleiderer-Pezold Professor of Chemistry and Biochemistry; Ravosa is a professor of biology with concurrent appointments in the Department of Aerospace and Mechanical Engineering and the Department of Anthropology.

Stack completed her doctorate at the University of Louisville; Ravosa at Northwestern. The couple met as postdoctoral scholars at Duke University Medical Center in Durham, North Carolina.

“We met in a bar,” Stack says. “At Friday Happy Hour. A Duke University campus hangout. He was with his lab mates, and I was with mine. He walked by and handed me a paper, and said: ‘Did you drop this?’ I didn’t look at it till the next morning. It said, ‘Hi, my name is Matt. I’d like to meet you. If you’d like to go to dinner call me,’ with a phone number.”

The next morning she found the note in her pocket but couldn’t remember who’d handed it to her. She looked his name up in the university directory, where he was listed as a visiting research professor. With some coaxing from her friends, she called. The first night they went to dinner, the next day they spent at the North Carolina State Fair, Stack says.

“We had a blast working and dancing a lot, got married and Matt took a job at Northwestern University Medical School in Chicago. I moved there about nine months later.”

Northwestern wasn’t her first choice. “I said I’d move anywhere but New York, Los Angeles or Chicago. We were in Chicago for 13 years, and I only complained for the first 10. When the kids (Nico, now 18, and Luca, now 16) came along, we decided to move on.” Stack and Ravosa both took positions at the University of Missouri, School of Medicine then on to South Bend and Notre Dame.

Stack and Ravosa live on 22.5 acres near Edwardsburg, Michigan (technically the Cass County part of Niles), with a menagerie that includes “eight llamas, two alpacas, three dogs and two boys.”

After they bought the property, he cut the lawn once: “I decided I needed some animals to eat the grass.” The llamas are all rescue animals and earn their keep by cropping some of the five or six acres of fenced pasture. The alpacas are also rescue animals, acquired from a friend who was shutting down a research project on...

Continued on page 4
GERHOLD NAMED DIRECTOR OF LICENSED PROGRAM

Tomi Gerhold has been promoted to interim director of the Notre Dame Guggenheim Licensing Program, following the retirement of Mike Low. She previously worked as the associate director of the Licensing Program and will immediately begin serving as a senior leader on the Auxiliary Operations team.

Gerhold will be responsible for managing and protecting the University’s trademark licensing program. She will also guide day-to-day operations of the program; continue to serve as a member of the Licensing Committee; and serve as the campus Worker Participation Committee; and serve as the department’s liaison to the University’s licensing agency, Fermata Partners.

BURKE NAMED DIRECTOR OF THE INSTITUTE OF GLOBAL INVESTING

Kevin W. Burke ’89, a member of Notre Dame’s Wall Street Leadership Committee, has been named the first managing director of the Notre Dame Institute of Global Investing at the Mendoza College of Business. Burke retired as president of Comus Capital in December 2015.

Burke will be responsible for implementing the vision of the institute and managing its operations, including developing and directing curricular and programs, mentoring students, and recruiting and coordinating faculty to participate in the institute’s programs. He will work in collaboration with the institute’s faculty director, finance professor Shane Corwin.

UNIVERSITY ONE OF THE 2016 ‘BEST PLACES TO WORK IN IT’

Recognized for the fourth year in a row, Notre Dame rises to sixth among large organizations in IDG’s Computerworld 2016 Best Places to Work in IT. The 23rd annual survey ranks organizations that provide challenging work for information technology employees while providing great benefits and compensation. Notre Dame is featured, along with more than 700 other organizations, in the June 13 digital edition of Computerworld online and at computerworld.com.

ALL PROFESSORS RECEIVE GUGGENHEIMS

Anjan Chakravartty, a professor in the Department of Philosophy, and Stephen Fallon, the Rev. John J. Cavanaugh, C.S.C., Professor of the Humanities in the Program of Liberal Studies and the Department of English, are recipients of 2016 John Simon Guggenheim Memorial Foundation fellowships. Fallon will use his fellowship to complete a comparative study of what happens when the poet and theologian John Milton and the scientist and theologian Isaac Newton — towering figures in 17th-century England — address some of the world’s biggest questions and come up with parallel answers.

Chakravartty, who directs the Reilly Center for Science, Technology and Values, will explore how people should choose their beliefs in the face of disagreement among experts.

UNIVERSITY TO STEWARD NEWMAN UNIVERSITY CHURCH IN DUBLIN

The University has agreed to steward Newman University Church in Dublin, and to found there the Notre Dame–Newman Center for Faith and Reason.

Built by the then-rector of University College Dublin, Blessed John Henry Newman, the church opened in 1856 and has since been an iconic landmark in Dublin’s city center and a testament to the harmony of faith and reason. Newman would later be named a cardinal of the Catholic Church, and was beatified by Pope Benedict XVI in 2010.

The center’s operations will commence later this fall, and will have a special focus on outreach to young professionals in Dublin, many of whom have not otherwise been drawn to the Catholic Church. The center will give particular attention to excellent liturgy and music, a lecture series and other intellectual activities that aim to integrate faith and reason, service to those in need in Dublin and cultural events inside and outside of Newman University Church.

UNIVERSITY EXPANDS PARTNERSHIP WITH STAMPS FOUNDATION

The University welcomes 11 undergraduate Stamps Scholars to the Class of 2020, marking an expansion of the partnership between Notre Dame and the Stamps Family Charitable Foundation. The partnership began in 2013, with the admission of five scholars each year since. The prestigious scholarship awards have now doubled to allow twice as many students per year to benefit from the scholarships.

The Stamps Family Charitable Foundation, established in 1986 by Penny and Roy Stamps, sponsors multi-year merit scholarships at 41 institutions across the United States with the goal of helping exceptional students become meaningful leaders throughout society.

Johnson promoted to senior director of campus safety; Shibata appointed NDSP police chief

BY DENNIS BROWN, MEDIA RELATIONS

University police chief Phillip A. Johnson has been promoted to senior director of campus safety and emergency management, and Keri Kei Shibata will succeed him as chief of Notre Dame Security Police (NDSP).

Chief since 2007, Johnson has concurrently been responsible for directing Notre Dame’s emergency management efforts for the past two years. He will continue in the latter role, managing a program that includes extensive annual training to more than 300 campus leaders, multiple simulations and tabletop exercises, management of the campus-wide NDAlert emergency notification system, and coordination with local, state and national law enforcement, fire departments, emergency medical services and others in the field. He also interacts with numerous other higher education institutions in identifying best practices in safety and emergency management.

“Nothing is more important than the safety of students, faculty, staff and visitors on our campus, and that is especially true in the event of an emergency,” said Rev. John J. Jenkins, C.S.C., Notre Dame’s president. “We are exceptionally blessed to have a person with Phil’s experience and knowledge leading these critically important efforts.”

Johnson also will assist Mike Seamon, vice president for campus safety and event management, with the daily operations within the campus safety division, which is composed of the NDSP, Notre Dame Fire Department, Office of Risk Management and Safety and emergency management.

He also will be responsible for assisting in the coordination and implementation of various safety elements associated with major University events, including commencement, Alumni Reunion Weekend and home football game weekends. A 12-year veteran of the NDSP, Shibata most recently has served as deputy chief for campus safety. She previously has been responsible for the University’s 911 dispatch center, crime prevention and outreach, security and guest services, Clery Act reporting, training for NDSP personnel and campus safety officers, including security support of all residence halls on campus. A sworn police officer, Shibata focuses on campus law enforcement, sexual assault, domestic violence and the Clery Act.

“Keri Kei is a talented law enforcement officer who has demonstrated excellence in every role she has filled with NDSP,” said John Affleck-Graves, executive vice president of the University. “I look forward to working closely with her, Phil and Mike as we seek to provide a safe and secure environment for all who live, work and visit here.”

OLD2GOLD RAISES $33,000 FOR CHARITY

The 2016 Old2Gold sale, held Saturday, June 11, at the 4-H Fairgrounds, saw staffed by 186 volunteers and visited by more than 1,795 shoppers — including some who lined up for the 7 a.m. start of the event at early as 4:30 a.m. The event, which featured clothing, bicycles, electronics and other goods donated by Notre Dame students, raised $33,000 for 21 local community service organizations.
LENETTE VOTAVA, OIT

New insideND launches August 1

Enter insideND

PHOTO CONTEST!

The 2016 NDWorks Photo Contest has already received more than 50 entries. Submit your photos of campus places, people and things by August 26 to be eligible for prizes including an 11 x 14-inch print of one of the many beautiful campus photos available online.

We’re looking for photos of sights those who work on campus see that visitors may not: the beauty of campus at sunrise and sunset; hidden spots; close encounters with the squirrels that call Notre Dame home. Photos can be taken with any camera or device but must be a high-resolution jpeg (300 dpi with a file size of 1-2 MB.)

Submissions on our Pinterest page where they can be liked, saved or shared (create a free Pinterest account to view all the submissions). You can see both current and last year’s entries at pinterest.com/UofNotreDame/notre-dame-iphone-ography.

Copyright remains with the photographer. Each digital image submitted should be labeled with your name and a title (i.e., yourname_hulps.jpg) Email submissions and any questions to Carol C. Bradley, bradley.7@nd.edu.

Win a print of a Matt Cashore photo of campus!

MORE NEWS

MC Award to Direct Center for Civil and Human Rights

Jennifer Mason McAward, associate professor of law at the Notre Dame Law School, has been appointed director of the University’s Center for Civil and Human Rights (CCHR) by R. Scott Appleby, Marilyn Keough Dean of the Donald R. Keough School of Global Affairs.

The CCHR sponsors two degree programs through Notre Dame Law School to respond to the worldwide need for advanced human rights education: a one-year Master of Laws (LL.M.) program and a multi-year Doctorate of Juridical Sciences (J.S.D.) program.

A member of the Notre Dame faculty since 2005, McAward teaches and conducts research on civil rights, constitutional law and habeas corpus. Her scholarship addresses the relationships between Congress and the federal courts with respect to protecting individual rights.

Barron Appointed DPAC Executive Director

Ted Barron, senior associate director of the DeBartolo Performing Arts Center (DPAC) has been appointed executive director of the center and Judd and Mary Lou Leighton Director of the Performing Arts. He has served as interim executive director since the departure of Anna Thompson last fall.

Barron has served as senior associate director since 2015 and has led the visits to Notre Dame by filmmakers such as Claire Denis, Larry Kramer, Marina Nemat, Margarethe von Trotta, Martin Sheen and Emilio Estévez. He teaches courses on film history in Notre Dame’s Department of Film, Television and Theatre.

Lynda.com licenses available at reduced rate

Interested in taking advantage of online training through lynda.com, one of the premier online training sites? Annual licenses for lynda.com are available to ND faculty, staff, students and affiliates for only $12 each. A license provides access to more than 4,500 different online training courses, from PowerPoint to Python to podcasting.

Licenses can be purchased for one person or a group for individual departments or colleges. Faculty members can have students in their classes buy a license as well.

These premium licenses give access to the exercise files used in the tutorials. The licenses are for individuals only and cannot be shared among coworkers; each person needs a separate license.

Orders of one or multiple licenses anytime after Friday, July 1. Licenses will remain active until approximately June 30, 2017.

There are a limited number of these licenses available. Monthly licenses will no longer be available through the Office of Information Technologies (OIT).

More information about these licenses and how to place an order can be found at oit.nd.edu/training-classes/online-classes.

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Researching cancer biology and evolution

A common theme in cancer is the patient's quality of life. Researchers are exploring how cancer affects the immune system and the way immune cells interact with tumors. This understanding can lead to new treatments and improved outcomes for patients.

One area of research that is gaining attention is the role of the gut microbiome in cancer. The gut microbiome is the community of microorganisms that live in the digestive tract. Researchers have found that changes in the gut microbiome can affect the development and progression of cancer.

An academic couple:

Researching cancer biology and evolution

The couple, Stack and Ravosa, have made contributions to the field of cancer research through their collaborative work. They have published numerous peer-reviewed articles in leading journals and have received recognition for their innovative approaches to understanding the biology of cancer.

Some common research interests:

Stack and Ravosa share a common interest in understanding how mechanical forces affect tissue. They believe that mechanical forces play a critical role in the development and progression of cancer.

For example, consider the Tyrannosaurus Rex. The T-Rex used its massive jaws to crush bones and other tissues. This mechanical force can lead to the formation of tumors in the jawbone and other areas of the body.

The research has implications for humans as well. If you don't walk around very much, you won't use your muscles as much, and you'll develop osteoporosis. If you don't exercise very much, your kids get up and off the couch and more. We have to keep an eye on what we do.
bone formation in different parts of the skull.

There are two other interesting things about bone development in the skull that differ from bone development in other parts of the body, he adds.

“When we are really little, bones start off as cartilage, and they become replaced by bone. When they become fully bony, we stop growing. In the head, most of the bones don’t grow that way. They start off as soft tissues, and go straight to bone. A baby’s soft spot, there’s nothing there. There’s skin and soft tissue and brain right below it. There’s no cartilage there. And it turns into bone. That only happens in the head.”

Another unique aspect of bone growth in the skull is that the bone comes from two tissue types. The bones in the body come from only one. So there are three things affecting bone growth in the skull: a diversity of loading environments (differing on different types of food, harder or softer, effecting changes in the jaw); a diversity of tissue types — the precursors of bone; and a diversity in the way the bone forms.

Ravosa’s research examines the ways bone cells vary in neonatal mice. You would assume that bone is bone is bone — that one bone acts the same way as another bone, that a bone cell acts the same way as another bone cell,” he says. “We’re starting to find that depending on what part of the bone you pick a bone cell from, its activity is very different. If you’re going to do reconstructive surgery, you need to use the right tissue from the right spot.”

That’s just one clinical application. Developing a model for osteonecrosis of the jaw form chemotherapy is another. Although his research may have clinical applications, he’s primarily interested in bone from an evolutionary perspective.

“When do some animals have a complete bar around the eye socket and other ones don’t? A lot of it is asking those kinds of questions — if you’re an animal that has this kind of joint, you’re probably in a group of animals that all look like that. You can ask questions — compare one animal to another.

“What we’re doing is exemplary of the way science needs to be done, has to be done. It’s cross-disciplinary. An engineer has a different take on science that a biologist. You have to incorporate new skills from other disciplines. That’s how you get advances. My post-docs are bioengineers. My students have engineers on their dissertation committees. I may be one of the few faculty members on campus with concurrent appointments in two other colleges,” Ravosa says. Indeed, having engineers as colleagues was a big part of his initial engagement in research.

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Breakthrough research on ovarian cancer

Sharon Stack’s current research and grant writing focuses on ovarian cancer.

Nearly 70 percent of ovarian cancer cases are detected after metastasis, which is the development of secondary malignant growths distant from the primary site of cancer, resulting in a five-year survival rate of less than 30 percent.

Stack’s laboratory emphasizes the understanding of the molecular mechanisms by which tumor cells manipulate micro-environmental cues in order to more efficiently metastasize. Knowing how cancer spreads is a key step in stopping the metastatic process in this late stage. Recently, alongside HCRI researcher Xuying Liu, she led a team of researchers in a study that found that obesity contributes to ovarian cancer metastasis. The team used an integrative approach combining three-dimensional cell culture models, tissue explants and mouse models to evaluate tumor cell adhesion to cells that line the abdominal cavity. The researchers set out to determine whether obesity contributes to ovarian cancer metastatic success.

“In other words, are tumor cells better able to successfully metastasize when the ‘host’ is obese versus lean?”

“Ovarian cancer metastasizes through a distinct mechanism that results in large numbers of lesions scattered throughout the abdominal cavity, making surgery challenging,” Stack says. “It’s important to delve deeply into understanding ovarian cancer on a molecular level and identify disease-specific targets. Not only will this help us find cures, but it will also assist in early detection efforts that are important for survival.”

The hope is that further research will provide new targets for dietary and therapeutic interventions to slow or inhibit metastatic dissemination — thereby impacting the long-term survival of women with ovarian cancer.

“We are just at the beginning of understanding this complex disease,” Stack says.

The study was supported by grants from the National Cancer Institute and the Leo and Ann Albert Charitable Trust and by training fellowships from the National Cancer Institute and the National Science Foundation.

Stack also points out the interdisciplinary nature of the research.

“In addition to the cell-based research, we analyzed hundreds of fluorescent images and many hundreds of slides to collect the data to support our conclusions,” she says. “We had phenomenal interactions with the Harper Tissue Biorepository and the Notre Dame Integrated Imaging Facility. You can see the team effort by looking at the author listing. This paper has 22 authors. Seven of them are current or former Notre Dame undergraduates, and four are current or former ND grad students.”

In May, the University hosted the Midwest Ovarian Cancer Coalition. Researchers examined the current state of ovarian cancer research and discussed ways they might collaborate to more effectively combat the disease.

“The goal was to bring together research groups and share our findings, as well as to learn from survivors and advocates,” says Stack. “We want all women to have better treatment options and early detection.”
Eight receive Green Belt certification

Projects created substantial process improvements in several areas

BY ANGELA KNOBLOCH, CONTINUOUS IMPROVEMENT

In May, the University awarded Green Belt certifications to eight individuals who participated in the Green Belt Program offered by the Office of Continuous Improvement. Since the program launched in 2010, 86 Notre Dame employees have achieved Green Belt certification.

Bernard Akatu, in the Office of Human Resources, entered the Green Belt Program with a process problem that seemed to be a fairly straightforward issue: The Office of Human Resources was processing non-employee NetID request paper forms and wanted to reduce the inefficiency of handling these forms.

“I was fairly certain that if we could just devote time to analyzing the process, we would realize huge benefits for both Human Resources and campus users,” says Akatu. “However, as we began to evaluate the data gathered from the process, we quickly realized that there was a need to not only eliminate the inefficiencies, but also mitigate potential risks to the University by incorporating the expertise of the Office of Information Technology (OIT) into the improved process.”

Project sponsors Tammy Freeman and Mark Kocovski from Human Resources encouraged Akatu to propose a new process that would fully achieve these goals. “Bernard’s improvement proposal initially stopped just short of what we all knew really needed to happen,” says Freeman. “It was clear that this was not a Human Resources process and that the OIT was in a better position to field the requests for non-employee NetIDs.”

Akatu then approached Katie Rose, director of user services, with a proposed future state process. Says Rose, “It made sense for the OIT to help with the new process, but the new process also presented the perfect opportunity to use ServiceNow to gather and track these requests. This wasn’t a case of someone just trying to push a process onto another department. We clearly saw the need for the OIT to work with these requests, and we were able to make the process more efficient by taking advantage of the automation that ServiceNow can provide.”

The partnership between Human Resources and the OIT Help Desk, which assumed responsibility for the process, has been the key factor in the impressive results. Most campus requestors seeking a NetID access for a non-employee (affiliate) receive confirmation within two working days. Additionally, the University has improved the trackable data of non-employee access.

“The Office of Housing also recognized a need for improving efficiencies in the annual housing selection process. They experienced a great deal of re-work in the application process and identified a need to better communicate with students and rectors.”

Says Green Belt leader Margaret Morgan, “We had to go back to the beginning and determine what was critical in the process for students, rectors and the Housing Office itself. With this discovery, we were able to target the essential areas in which to focus.”

One obvious observation was that students were asked to complete housing applications prior to notifications on study abroad status. As a result, students accepted into study abroad programs had to cancel their applications, requiring additional manual work for the Housing Office. By adjusting the timeline to delay the application process until after the study abroad notifications were made, the Office of Housing experienced a 45 percent decrease in cancelled applications from the previous year.

Students weren’t the only ones experiencing a better process this year. “A key goal of ours was to engage the rectors in streamlining the overall process,” says Morgan. “Rectors’ greatest need was the ability to form communities. Our improved process allowed for this need while creating greater awareness of shared work between the Office of Housing and rectors for room selection.”

Response from the rectors has been very positive. The revised policies and process also provided better service and consistency to our undergraduate students.

Bernard Akatu, Human Resources: Implemented a new process for requesting affiliate NetID access restoring approximately 675 hours annually. Campus requestors now have their requests fulfilled within two work days of submission with less than one percent requiring rework.

Lindahl Chase and Jonathan Retartha, Development: Improved the campaign execution process with better targeted, more creative donor-centric tactics resulting in a 7.5 percent increase in unrestricted revenue from previous year.

Ryan Knowlton, OIT: Reduced the time to obtain VPN OC access from 12 days to 4 days.

Margaret Morgan, Housing Office: Improved the annual housing selection process with a student-focused timeline that took into consideration study abroad notifications and RA selections, resulting in a 45 percent decrease in re-work for the Housing Office staff.

Karen Patt, Enrollment: Implemented a centralized process for college/fars resulting in improved data to assess effectiveness of college/fars as a recruitment method, the ability to recognize volunteers for their efforts and establishment of historical data for improved selection by volunteers.

Lin Wang, Development: Reduced production lead time in the storytelling and engagement process by over 50 percent and created capacity to accommodate increasing demand.

Aaron Wilkey, OIT: Using newer information security tools, created new password standard and revised the password policy eliminating the need to change password every 180 days — reducing the need for campus users to contact the OIT Help Desk for password resets due to forgotten password. OIT Help Desk recovered approximately 635 hours annually as a result, while campus users collectively will recover over 300 hours annually.

For additional information regarding the Green Belt program, contact the Office of Continuous Improvement, oci@nd.edu or call Carol Mullaney, 631-1893.

From left, Aaron Wilkey, Lin Wang, Margaret Morgan, Jonathan Retartha, Ryan Knowlton, Lindahl Chase, Karen Patt (not pictured, Bernard Akatu).

Mullaney honored as ‘Leader of Change’

Carol Mullaney, director of the Office of Continuous Improvement, has been honored by the Network for Change and Continuous Innovation: Higher Education’s Network for Change Leadership (NCCE) as a 2016 Leader of Change.

The recognition program identifies leaders of change throughout higher education, recognizes them for their accomplishments, and links them with their peers to help leverage the impact of their work.

The award citation notes that over the past five years, Mullaney “has formulated and deployed a far-reaching, campus-wide culture of continuous improvement. With limited staff, her strategy for growth and expansion has been to ‘teach others to fish,’ through a succession of Lean Six Sigma tools and techniques — a Belting system that recognizes successful projects and leaders that improve processes and impact the University’s effectiveness and efficiency. Under Mullaney’s leadership, about 70,000 hours of faculty and staff capacity have been restored.”

Said Bob McQuade, vice president for human resources, “Carol has been instrumental in inspiring our employees to acquire Green Belt certification. She is a champion of continuous learning and through her sharing of innovative ideas, the entire campus community has been provided with an invaluable resource that has helped imbue the spirit of continuous improvement across the University.”
Nearly two years ago to the day of the ribbon cutting, the University announced a plan to build a $36 million turbomachinery research and testing laboratory at Ignition Park in South Bend.

On that day, June 25, 2014, the University and its project partners — the city of South Bend, Great Lakes Capital, the state of Indiana and Indiana Michigan Power — unveiled a vision for the new Notre Dame Turbomachinery Laboratory (NDTL), a high-powered research laboratory to analyze and advance the technology of gas turbine engines used for jet aircraft, power generation plants and the oil and gas industry.

On Tuesday, June 7, the 25,000-square-foot facility was officially opened with a ribbon cutting ceremony featuring University leaders and researchers along with community, state and private sector representatives. Researchers at the NDTL will study aerodynamics, thermodynamics and structural mechanics of parts of large rotating machines, with a focus on things such as vibration, stability, flow and efficiency.

“This facility gives our students and faculty a unique capability — we can work in a research and development space no one else works in,” said Vice President for Research Robert J. Bernhard. “It will help us draw the best faculty and graduate students to Notre Dame while providing valuable data to our business partners about their technology and equipment.”

The University had previously operated a smaller-scale turbomachinery facility on campus, where it employed about 10 people. The new lab has five times as much space with four test bays and room to grow, in terms of both space and partners. Leading the NDTL are Joshua Cameron, research assistant professor of aerospace and mechanical engineering and director of the new laboratory; and Scott Morris, professor of aerospace and mechanical engineering and the lab’s research director. The lab currently employs 37 people and will eventually employ about 60.

General Electric Corp., the original launch sponsor, is preparing to start a project in one of the lab’s test bays, and Notre Dame expects the other bays to be busy with collaborations with a diverse set of turbomachinery industry partners. Through its previous work, the turbomachinery researchers have developed relationships with sponsors and collaborators including Pratt & Whitney, Rolls Royce, Honeywell, Siemens, ANSYS, NASA and the Air Force Research Lab, and recently have held exploratory conversations with these partners about expanding into the new NDTL.

The University also announced during the ceremony that it has signed a Center of Excellence agreement with Pratt & Whitney, a United Technologies Corp. company.

“We are very excited about the addition of Notre Dame as one of our University Centers of Excellence,” said Chris Kmetz, vice president and chief engineer, Systems Design and Component Integration, Pratt & Whitney, and a 1991 graduate of Notre Dame. “This relationship also allows us to bring our expertise to the next generation of engineers in a way that complements their traditional studies.”

The University’s new Turbomachinery Laboratory will advance the technology of gas turbine engines. Above, Notre Dame’s Vice President for Research Robert J. Bernhard cuts the ribbon at the ceremonial opening.

OIT contributes bikes to Boys and Girls Club

While on a work retreat this summer, 260 OIT staffers assembled 30 bikes, which were donated to the St. Joseph County Boys and Girls Club. The division was looking for an activity that encouraged teamwork, and also allowed them to give back to the community. Sixteen boys and girls received bikes at the event. Center, Lenette Votava, marketing and communications professional for OIT, helps a child learn to ride her bike.

BY SUE LISTER, MEDIA RELATIONS

Ribbon cutting for new Turbomachinery Laboratory
CONGRATULATIONS
MIKE CORA
Mike Cora, Food Services cook assistant in the South Dining Hall, graduated with his diploma from Penn High School this June, at age 52. He’s been taking classes off and on for the last six years. “I work two jobs, as things come up,” he says.

In addition to his family, the ceremony was attended by Executive Chef Charu Patel, Mark Pichaloski, South Dining Hall general manager, and Scott Kuhnmunn, Food Services director of student dining and restaurants.

BUTTERFLY GARDEN INSTALLED NEAR ST. MARY’S LAKE

Project is a gift from Class of 1976

BY DANA BAHRTZ

During Reunion 2016, the Class of 1976 installed a butterfly garden of native plants at the corner of St. Mary’s Road and Holy Cross Drive as their class gift. Situated near the Grotto, the garden will help promote pollinators on campus and provide a welcome pop of color for visitors and campus community members alike.

Because butterflies are naturally attracted to brightly colored, fragrant flowers, Notre Dame’s garden features several colorful species including purple coneflowers, Coreopsis verticillata “Sunshine”, “Sunshine Blue” Caryopteris incana, and “Blue Chip” butterfly bushes (Buddleia davidii). In addition to butterflies, the garden will likely attract other pollinators such as moths, flies, bees and honey bees — pollinator numbers have decreased over the past several decades due to factors such as exposure to pathogens, parasites and pesticides as well as climate change and habitat fragmentation and loss.

In addition to the butterfly garden, native-plant landscaping around the Compton Family Ice Arena provides a microhabitat on the south side of campus that encourages wildlife and pollination.

The rain garden next to Stinson-Remick helps to control storm water run-off by providing a suitable environment for water to slowly percolate back into the ground; a green roof on top of the Morris Inn provides insulation, absorbs rainwater and helps reduce the discharge of pollutants into St. Mary’s Lake.

“We welcome the addition of the butterfly garden to campus and are very grateful to the Class of 1976 for choosing to give back to the University in a way that promotes sustainability,” says Linda Kuntos, director of sustainability. “The butterfly garden is a beautiful addition to Norte Dame’s campus and we look forward to seeing it develop in years to come.”

IN MEMORY

The University extends sympathy to the families and friends of these recently deceased employees and retirees:

Conrad Kellenberg (Retiree, Law School) April 8
Daniel Ferry (Retiree) April 10
Lucille Wroblewski (Retiree, Library) May 3
Cecilia Klosowski (Term-tenured employee) May 4
Stanley Farmann (Retiree, Library) May 13
John G. Beverly (Retiree, Accounting Faculty) May 19
Botty Ann Snyder (Retiree, Food Services) May 27
William Klein (Retiree) June 10
Mary Stanfield (Retiree) June 12

SERVICE ANNIVERSARIES

The University congratulates those employees celebrating significant service anniversaries in July:

35 Years
Michael J. Adamek, Custodial Services
Michael O. Garvey, Media Relations
Susan C. Stiebe-Pasasich, University Counseling Center

30 Years
Ronanne J. Brock, Accounting Operations
Steven L. Ellis, Infrastructure Services
George E. Forese, Central Receiving
Phillip A. Johnson, Security
Anita L. Jones, Development
Kristine L. Mitchell, Civil and Environmental Engineering and Earth Sciences
Wolfgang Pored, Electrical Engineering
Lora J. Spaulding, Registrar

25 Years
Michael W. Bean, Sports Medicine
Nancy M. Beitlez, Campus Ministry
Julia V. Doutswaite, Romance Languages and Literatures
Todd T. Hill, Food Services Support Facility
Maureen Metcalf, Chemical and Biomedical Engineering
Michael R. Ridenour, Investment Office
Kimberley S. Rius, Food Services, North Dining Hall
Bradley D. Smith, Chemistry and Biochemistry

20 Years
Jamery S. Barry, Development
Carl R. Buchanan, Food Services Support Facility
Cindy S. Ciesielska, Bookstore
Jeremy B. Fein, Civil and Environmental Engineering and Earth Sciences
Eileen L. Gieselman, Development
Mark E. Hogue, Infrastructure Services
Gloria A. Krull, Law School
unsag bags, Custodial Services

15 Years
Jennifer S. Belovsky, Biological Sciences
Joe R. Cortes, Char-Anna Koblick and Khajia Oudghiri, Food Services, South Dining Hall
Stephen D. Dumont, Philosophy
Patrick J. Flynn, Computer Science and Engineering
Matthew J. Gursky, Mathematics
Beth A. Hunter, Athletics Facilities and Sports Operations
Eric S. Mauch, Infrastructure Services
Gerald P. McKenny, Theology
Lee H. McWilliams, College of Engineering
Darell R. Paulsen, Development
James D. Philipott, Political Science
Jason M. Schwenker, Office of the Controller
Paul J. Slaggett, Executive Education
Julia A. Thomas, History
Matthew C. Zyniewicz, College of Arts and Letters

10 Years
Richard J. Buhman and Brian R. Wrona, Investment Office
Thomas R. Bullock, Accountancy
Julie A. Burnett, Development
Ryan R. Clark, Alliance for Catholic Education
Denise M. deRouen, German and Russian Languages and Literatures
Giles E. Dufield, Biological Sciences
Wendy W. Durham, Executive Education
Edmond P. Edmonds, Law Library
Marianne E. Gallimore, Food Services, South Dining Hall
Wojciech J. Goniowski, Campus Technology Services
Richard A. Jacobs, Legends
Roberta M. Kelly, Athletics Ticketing
Elizabeth Kovacs, Electrical Engineering
James Leady, Finance
ChongKeat Arthur Lim, Mathematics
Jennifer M. McCaward, Law School
Peter M. McCormick, Campus Ministry
Constance J. Morrow, University Health Services
Mark Noll, History
Bonnie Prentin, Civil and Environmental Engineering and Earth Sciences
Cindy Rice, Mail Distribution
Brandon E. Roach, Office of General Counsel
Kathleen M. Star, Office of the Controller
Yongtao Zhang, Applied Computational Mathematics and Statistics

NEW EMPLOYEES

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

Kevin W. Burke, Finance
Jeffrey L. Burns, Football
Diane B. Choi and Ishan Dixit, Biological Sciences
Paul B. Como, Food Services, North Dining Hall
Tamiin J. Frechling, College of Science
Luis R. Gomez Rosendal and Valeria J. Josip, CIT
Tina Graham, Legends
Brittany D. Hammouz, Julie C. Heusing and Haley A. Seid, Morris Inn
Jonathan Hickey, Recreational Sports
Diana S. Jeffrey, Custodial Services
Sarah Kasten, Heushoff Libraries
Riley P. Kowal, Annual Giving Programs
Jessica I. Kozlowski, Alliance for Catholic Education

Michael C. Macaluso, Institute for Educational Initiatives
Lisa A. Matejka, Center for Social Concerns
Deanna M. Menke, Theology
Mary C. Murphy, Development
Dawn Rizek, Graduate School
Shannon E. Rooney, Recruitment and Communications
Logan J. Schuetz, Athletics Ticketing
Tiffanie S. Stewart, NDnano
Dania Maria V. Straughan, Knic Institute
Patrick W. Thomas, Clinical Law Center
Abel Torres, St. Michael’s Laundry
Christine S. Wallace, Special Events and Stewardship
Elizabeth Willows, ND Environmental Change Initiative

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are signposts on that road
tes. The good news is, there
disease, stroke and dia-
being on the road to heart
the condition. Think of met-
a 50/50 chance of having
you are 60 or over, you have
Over one-third of adults
serious and quite prevalent.
Metabolic syndrome is very
food into fuel.
the body's metabolism,
factors that are related to
condition which is a cluster
syndrome?
Q: What is metabolic
A: It is a fact, that if you have
metabolic syndrome, you
are two times more likely to
die from a heart attack or
stroke. You are three times
more likely to suffer a heart
attack or stroke and five
times more likely to develop
type 2 diabetes. Additional-
ly, the odds that you will de-
velop cancer, non-alcoholic
fatty liver disease, cognitive
dysfunction, depression and
osteoarthritis are increased
as well.
Q: What types of dietary
changes are necessary to
convey metabolic syndrome?
A: The foods that contrib-
ute to metabolic syndrome
are the ones most closely
associated with the modern
diet. These are processed
foods, most likely developed
in a laboratory and designed
to be addictive. They almost
always contain high-fructose
corn syrup.
Think about going back
to basics and basing your diet
on simple foods like vege-
tables and low sugar fruits.
Select whole grains such as
high-fiber breads and pastas,
brown rice and oatmeal, as well as starchy
vegetables like potatoes,
corn and yams and legumes
such as peas and lentils, or
black, pinto and garbanzo
beans. Also recommended
are lean, calcium-rich foods
such as nonfat dairy milk,
nonfat yogurt and soymilk,
and fish, which is rich in
omega-3 fatty acids.
Q: What about exercise?
A: Modern lifestyles have
resulted in people becoming
more sedentary. Many of
us spend our days sitting
at our computers, and our
nights in front of the televi-
sion. In reality, our bodies
evolved to be in motion. Our
ancestors spent their days
walking about, hunting and
scavenging for food and
even running from preda-
tors. While we don’t have
to replicate this activity exact-
ly, we do need to make sure
we get out of the easy chair
and get ourselves in motion.
Thirty minutes of moderate
exercise (a brisk walk a day)
can significantly decrease
your chances for developing
metabolic syndrome.
Q: Where can I learn more?
A: More information can be
found at heart.org/HEARTORG, > Conditions >
Metabolic Syndrome.

FAMILY CONNECTIONS
This month NDWorks introduces a series of stories focusing on campus family connections —
those with multiple family members working on campus or with other Notre Dame connections.
This is the first of a series.

Catherine McGann's grandfather Lewis McGann transported Knute Rockne to
games during most of the 1929 season when the coach was laid up with phlebitis
in his leg. The McGann name is just visible on the door.

Dave Grundy, Chas Grundy and
Catherine DeFauw

Catherine DeFauw, an admin-
istrative assistant in philosophy, has
worked on campus 24 years this July,
and will be retiring in August.

Her family has long-standing
Notre Dame ties. Paternal grandfa-
thter Neil Vincent Robertson, gradu-
ated from Notre Dame Law School
in 1916.
Maternal grandfather Lewis W.
McGann grew up in Macomb, Illi-
nois, and studied at Western Illinois
University, then a state teacher’s
college. At Notre Dame, he taught in
the Minus Department, the gram-
mar school for children age 12 and
under.
Two of the minims, brothers
William and Lawrence McBree (list-
ed in the 1912 student index as
10 and 12) had a sister in Denver.
"He saw her picture, met and mar-
rried her," DeFauw says.
McGann bought the University’s
mormery in 1911 — and McGann
Funeral Homes are still a family-
owned business today. The McGann
ambulance transported Knute
Rockne to games when, suffering
from thrombophlebitis, he coached
most of the 1929 football season
from the sidelines in a wheelchair.
After Rockne’s untimely death in
1931, his body was returned to South
Bend and transported to McGann’s
funeral home. Rockne’s was probably
the largest funeral in the history
of both McGann’s and South Bend —
the Studebaker Company loaned
22 limousines for the procession
to the Basilica and burial in Highland
Cemetery.

Today McGann Funeral Homes
are owned by Catherine DeFauw’s
first cousin J. Patrick McGann —
his wife Tessa McGann works in
OIT with the campus workation
program.
DeFauw also has more closely related
family working on campus. Son Dave
Grundy, a Ball State graduate, joined
the University a little over two years
times as digital media program manager for
the Mendoza College of Business.
Chas Grundy ’03 is the manager
of product services for OIT and has
worked at the University for 10 years.
His wife, Amber Hollomon Grundy,
is a triple Domer (’02, ’05, ’07) with
a Ph.D. in psychology. Amber is ex-
tutive director of Camp Tannadoos-
ich, a Camp Fire camp in Vandalia,
Michigan; the family lives there in
the summer, including children Avery
(6) and Elys (4).
A third brother,
Brian Grundy ’95, is married to Katie
Monahan ’07 — they have two
children, Samantha and Jasper.
And of course all
the grandchildren, Chas Grundy notes,
“are future Domes.”
Long before Notre Dame became a globally recognized university, the campus benefited from a small rail line that helped get access to the outside world: the Notre Dame & Western Railroad.

The modest rail line meant mighty connection to world beyond campus

BY JOSH STOWE, FOR NDWORKS

Paul Kempf leads a team that keeps campus running smoothly, but he hopes you’ve never given them a second thought.

Kempf, the senior director of utilities and maintenance, oversees a crew of about 100 that runs Notre Dame’s power plant, keeps electricity and water flowing, and maintains campus to “make sure no one notices us,” Kempf says. “You get noticed when something goes wrong.”

Under his leadership, the department is helping the University toward an ambitious goal of delivering sustainable energy.

Notre Dame plans to make use of its carbon output per square foot by 83 percent by 2050, and Kempf’s team has led the way with a series of initiatives — just the latest challenge he’s tackled in his current role.

“Energy is — if not the most — probably one of the most important aspects of sustainability,” Kempf says.

“And when you look at what you can do to be more sustainable, there is a wide range of things we can do that have a variety of costs and benefits. We wanted to start with all the easy things that will make a sustainability impact and save money, and then work our way up to the bigger things.”

It began with simple energy conservation improvements like changing to more energy-efficient light bulbs. Now the department is beginning to use building analytics to monitor and manage energy usage. They’ve studied how HVAC, wastewater and storm water can be managed more efficiently, and continue to look at ways to enhance fuel diversity, so the University isn’t overly dependent on any one energy source.

“Over an eight-year period, we’ve reduced baseline energy use by 13 percent,” Kempf says. “If you look at energy use over time, it’s just a curve that continues to grow. We’re literally flattening out the University’s energy curve, even though campus itself has continued to grow. We were early adopters compared to a lot of our peers.”

Kempf enjoys helping his team contribute to Notre Dame from behind the scenes. His department is responsible for building redundancy into systems to make sure they run reliably, even as it takes on innovations such as leading sustainability initiatives on a growing campus — all of which are necessary for the University’s ongoing commitment to excellence in education and research.

In addition to steam, the power plant produces nearly half of the electricity the University uses. Other ancillary products include compressed air and drinking water. The department also manages storm and sanitary sewers.

“It’s been interesting thinking about it as people retire, how many buildings have been built since they started working here. It creeps up on you. You wonder what it will be like 50 years from now.”

“In the last decade or so, there’s been a real focus on how to drive the University’s reputation, how to spread the message,” Kempf says. “We’re starting to see how the University has an impact that is much broader than we ever anticipated.”

University leading the way in sustainable energy

“We’re at early design stages of a series of projects that will reduce our carbon footprint and increase energy capacity to support significant present and planned future growth of campus,” says Kempf. Gas turbine technology — The University will install combined cycle gas combustion gas turbines to produce both electricity and steam. These units will be able to provide power plant trailers with newer, higher efficiency and lower emissions sources of energy.

Geothermal applications — Projects are currently underway to install geothermal systems beneath the East Quad, south campus and on the northeast edge of campus near Stepan Center.

The East Quad project, Kempf says, “All the wells have been drilled, and piping has been run to Pasquerilla Center and the Ricci Band Building. The east campus project has a 300-ton capacity — the equivalent of 3.6 million BTUs of heating or cooling energy. This summer we’re working at installing the mechanical systems in Pasquerilla and the Ricci Band Building. The University will install combined cycle gas combustion turbines to produce both electricity and steam.

That system has a capacity to produce 16 million BTUs of energy. Collectively these projects will contribute a significant amount of energy at a lower carbon intensity than traditional energy systems, which will increase the percentage of energy portfolio that comes from sustainable means.”

Hydro power — The University is currently working with the city of South Bend and state and federal agencies to construct a hydroelectric facility on the St. Joseph River dam in downtown South Bend, near Century Center. The facility is expected to produce 7 percent of current campus electrical needs. The University hopes to start construction in 2017, with the goal of generating electricity starting in 2019.

Behind the Scenes: Powering Campus

A department they hope you don’t think about

BY JOSH STOWE, FOR NDWORKS

Modest rail line meant mighty connection to world beyond campus

Long before Notre Dame became a globally recognized university, the campus benefited from a small rail line that helped get access to the outside world: the Notre Dame & Western Railroad.

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The modest rail line meant mighty connection to world beyond campus

Paul Kempf, senior director of utilities and maintenance, oversaw the line for more than 40 years, later christened it the Notre Dame & Western Railroad. In the years following World War II, Notre Dame acquired a war surplus diesel-electric locomotive, several hopper cars, and a locomotive crane — the first car to carry the line’s new name.

Between 1935 and 1962, trains carried passengers as well as coal. The arrangement allowed alumni clubs to charter special runs to bring fans to games. It meant fans from Chicago could travel to campus without having to stop in downtown South Bend and hail taxis. Over the years, special game weekend excursions also took fans to away games against opponents that included Ohio State, Michigan State and Purdue.

As late as the 1990s, long after the passenger runs had ceased, the line provided an easy way for Notre Dame to continue hauling coal to the power plant. Most recently, the University has used tracks to bring in coal. In 2015, Notre Dame announced plans to cease burning coal within five years as it focuses on reducing its carbon footprint.

Despite the end of the passenger runs, the line still serves its original purpose — delivering sustainable energy.

From behind the scenes, the Notre Dame & Western Railroad is an essential part of the University’s ongoing commitment to sustainability. The department is responsible for building redundancy into systems to make sure they run reliably, even as it takes on innovations such as leading sustainability initiatives on a growing campus — all of which are necessary for the University’s ongoing commitment to excellence in education and research.

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Program gives tips for bringing great ideas to life

"People treat creativity almost like a religion," says David Burkus, keynote speaker at the inaugural ND Showcase. However, Burkus has identified scientific principles for understanding the creative process and the social environment that helps creativity and innovation thrive.

"The social environment that someone is in determines the frequency that they’ll have creative ideas," said Burkus. "Accepting limited risk-taking, creating a culture of safety so that we can take risks, encouraging the sharing of ideas—especially across departments—all of these things affect the social environment."

To learn more about how you can better support transformational change in your departments, email showcase@nd.edu or visit continuousimprovement.nd.edu.
Tim Malott has a full-time job working for a book manufacturer—HF Group in North Manchester, Indiana. But because his hours are flexible, he took a second job as caretaker of the Grotto.

“Because of my full-time job it can be stressful, but I know I’m serving people,” he says. “I meet people from all over the world.”

Recently, he notes, a group of four nuns visited—their first trip to campus. He took photos of them with their cameras. Another visitor he remembers is a lady who’s attended every home football game since 1969. “One of her stops is the Grotto,” he says.

When he first started in the position (which is under Campus Ministry) he worked seven days a week. Another caretaker, Richard Albright, was hired, so now he works from 6 a.m. to 8 a.m. on Monday and Tuesday, and starts at 7 a.m. on weekends. Football Saturdays he’s on campus from dawn to kickoff, which can be late when it’s a night game.

For last year’s USC game, he notes, he was taking care of the Grotto and stocking candles for 14 hours—during which time he saw four marriage proposals. He sees them pretty often, he adds, but not normally so many in a day.

The job is rewarding. “Very spiritual for me,” Malott says. He often takes photos of campus in the early morning. “In winter, the light is so eerie,” he says. He bought a Nikon camera on the recommendation of University photographer Matt Cashore, but often shoots using his cellphone. “I still have a lot to learn. But if I see something ‘Wow!’ I shoot it.”