Travel Through Time
Take a virtual tour of South Bend—in 1925
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Mary E. Galvin, who has served as director of the NSF since 2013, will assume her new responsibilities for the Division of Materials Research in the National Science Foundation Dean of the College of Chemistry and Biochemistry. She will expand Notre Dame initiatives in the academic, govern-...
More sleep, big benefits

Notre Dame team develops sleep-enhancing app

BY GENE STOWE, FOR THE COLLEGE

A team of Notre Dame entrepreneurs has developed a sleep-enhancing kit and app designed to boost college students’ healthy rest, memory, learning and mental health.

The approach is based on the research of Jessica Payne, associate professor and the Nancy O’Neil Collegiate Chair in Psychology, as well as director of the Sleep Stress and Memory Lab. Matt Berg, who received his undergraduate degree in science-business in 2012 and master’s degree in 2012 and master’s degree in 2013, and Ryan Cunnnett, who graduated in 2014, launched a Kickstarter campaign to raise money for kit manufacture and app development.

Berg concocted the project after he took Payne’s “The Sleeping Brain” class as a senior and became aware that sleep is the foundation for learning. “I’m very protective of my sleep now,” he says. “It’s hard to reach me after 10:30 p.m., and I nap almost every day because of Jessica’s class and the benefits I’ve seen from it. If I had known all this as a freshman how much more I would have learned, and how much better

my college experience would have been.”

The app includes a sleep-tracking feature to help improve behavior and awareness, as well as access to dozens of brief video clips by Payne that cover key insights about sleep. The kit includes products such as lavender spray, a silk eye mask and a humidifying fan, items chosen after pilot studies on campus because they proved the most effective in creating a sleep routine and enhancing the sleep experience.

Under the guidance of Dennis Boyle, a Notre Dame alumna and founder and partner at the design firm IDEO, they have conducted more

than a year of pilot studies with hundreds of students and shown that Somni users average an additional 19 minutes of sleep per night—almost a whole week across a year—with a 12-percent increase in feeling well rested from 13 to 15 percent in alertness, and an 11-percent increase in ability to focus.

“Because the benefits of sleep compound, getting 20 extra minutes of sleep each day ultimately leads to big benefits in learning and wellbeing,” Payne says. The team is exploring other markets such as medicine, business, and transportation. For more information, visit pureoomni.com.

University’s biennial Economic Impact Report

$1.302 billion impact in St. Joseph County alone

BY BRENDAN O’SHAUGHNESSY, MEDIA RELATIONS

A study commissioned by the University projects that new construction on campus will more than double to $217 million annually over the next three years, compared to an average of $95 million annually in recent years.

The University’s annual economic impact in St. Joseph County alone was $3,828 billion for fiscal 2014, an increase of 11.6 percent compared to when it was last measured in 2012. Continuing its trend, University’s spending on payroll, purchasing and construction with student and visitor spending—and adding a standard multiplier effect—the University accounts for a total of 14,650 jobs in St. Joseph County.

From testing new turbine engines in a new laboratory rising on the grounds where giant Studebaker factory plants once stood, to giving area students new skills and confidence through a Shakespeare performance program, an economic partnership between the University and its surrounding community is helping both grow and flourish together.

The University’s fourth Economic Impact Report, again produced through an analysis by New York-based economic development consultant Applesoft, found that the growing collaboration between the University and the community has led to an increase of jobs, economic activity, entrepreneurial energy and quality of life in the region. The report serves as a valuable tool to mark past achievements and inspire future cooperation.

The latest study notes that Notre Dame owns the majority of its revenues from all over the nation and world, yet does a significant amount of its spending locally on salaries, benefits, purchasing and construction. The study was commissioned by Notre Dame and based on data from the University, Visit South Bend Mishawaka and other sources for the fiscal year 2014, when Notre Dame’s payroll alone amounted to $458 million.

Notre Dame remains the largest employer in the county, with 5,753 full- and part-time employees, excluding student and temporary workers. About 2.5 million visitors each year make its campus one of the strongest tourist attractions in Indiana. For example, each home football weekend generates about $18.5 million for the local economy.

Over the seven years leading to

the fall of 2013, Notre Dame added 823 jobs despite a downturn in the national economy. Besides its direct employment, the University accounts for 8,957 other jobs in the county through its spending on construction, goods and services, its employees’ spending, and by bringing thousands of out of state and millions of visitors to the region’s hotels, stores and restaurants.

Applesoft’s previous report found the economic impact of Notre Dame in 2012 to be $1.167 billion in St. Joseph County. Steady increases in employment, construction, research and student spending drove much of the 11.6-percent growth over the last two years.

Among the report’s findings for fiscal year 2014, the University:

• Averaged more than $95 million in construction and renovation over the last five years, generating 229 full-time-equivalent jobs with contractors in the county and another 97 jobs with contractors located elsewhere in Indiana.

• Generated an economic impact of nearly $114 million through its purchases of goods and services, including health care, from vendors located in St. Joseph County, accounting for 931 full-time-equivalent jobs.

• Attracted students who generate an economic impact of nearly $136 million, supporting 1,611 jobs in the county.

• Drew from outside St. Joseph County more than 1 million visitors, who spent more than $213 million off campus, supporting 3,258 jobs in the county.

• Accounted for about $16.1 million in state and local tax revenues.

• Is the alma mater of 9,806 Indiana residents, including 6,771 who live in St. Joseph County.

• Grew its research spending by 65 percent between 2010 and 2014, reaching $182 million and creating new jobs and companies in a commercialization effort drawing from innovation at Innovation Park to real growth at Ignition Park.

• Created outside of 750,000 hours of engagement in the community from its students, faculty and staff.

• Expects to spend $712 million on construction over the next three years—for an average of more than $237 million per year—in the largest building boom in University history.
A webcam recently installed in the Dome (dome.nd.edu) offers a spectacular live-streaming view of the Main Quad and points south from the vantage point of the 19-foot–tall, 4,000-pound statue of Mary, the Mother of God, (right) atop the Golden Dome—a point approximately 168 feet in the air.

The webcam installation was a joint project of the Office of Information Technologies’ AV Technologies, Facilities Design and Operation, Strategic Communications and University Relations.

Access to the Dome is via an unobtrusive door on the 5th floor of the Main Building. The crew climbed narrow stairs and passageways carrying equipment and parts, and then had to address the technical challenges of an unusually far reach to the network connection.

As you’ll see from various signatures, initials and messages carved in the beams, there have been a number of unapproved visitors—often students—accessing the space over the years. But you’ll have to be satisfied with the “behind the scenes” video on the installation of the web cam at dome.nd.edu.

Bob Zerr, director of Risk Management, notes that the space today is secured and inaccessible to anyone but approved maintenance workers. “The footing is pretty treacherous,” he says.
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**Time Traveling**

**Recreating historic South Bend architecture**

BY CAROL C. BRADLEY, NDWORKS

Adam Heet is walking down Main Street in South Bend, circa 1925, with the aid of Oculus, a next-generation virtual reality system designed for video gaming.

The building he’s looking at is the Moore Building, also known colloquially as the “Dental Palace,” demolished in 1931 (see photo at right). The building stood on the site where the South Bend Waterworks building is today, and just to the right in the photo (east) is the building that now houses the LaSalle Grill.

The Oculus is basically a stereoscope, says Heet, digital project specialist (“or toy master, if you wish”) in the Hesburgh Libraries Architecture Library. “It’s actually a video game interface with a better graphics card and more memory. It’s not a new technology, but it’s a new presentation of it,” he says.

The virtual experience is part of a larger project, Building South Bend: Past, Present & Future—which includes a website, buildingsouthbend.nd.edu, a mobile app (Downtown SB, free in the iTunes Store) and a 3-D printed model of South Bend’s downtown in the 1920s.

The project grew out of a collaboration with South Bend’s Historic Preservation Commission (HPC) four years ago, says Jennifer Parker, architecture librarian. “We were brought in as consultants for the HPC on the preservation of architectural documents—they had discovered a massive collection of historic blueprints and architectural standards for South Bend.”

The library developed a three-part proposal centered on preserving and protecting the historic documentation; developing links between the library, the HPC and the History Museum; and making available and promoting South Bend’s historic urban architecture.

The Downtown South Bend app was developed by Hesburgh Libraries’ Historic Urban Environments Lab. HUE, says Parker, is an interdisciplinary team of architects, computer scientists, librarians, anthropologists and others across the library whose goal is to create new tools to study the built environment. Students conducted much of the project’s research.

Building South Bend launched in late May as part of South Bend’s 150th birthday celebration. The 3-D model is now on permanent display at the History Museum, 808 West Washington Street.

The team’s previous project was SPQR-ND, an iPhone and iPad app interpreting the Roman Forum through early architectural publications. “Building South Bend has tons of new features,” says Parker. “There are panoramic views, the 3-D models, narrations, live maps of downtown South Bend and then-and-now photos that can morph from the old building to today; and back again. The project will continue to expand over time, with the next focus on moving east to Michigan Street and then to South Bend’s historic districts.

The virtual experience is not available to the public yet, but Heet is happy to show the system to visitors. Email him at aheet@nd.edu to set up an appointment. Additionally, you can watch the 3-D printer in action in the lobby of the library in Bond Hall.

Visit the Hesburgh Libraries’ Center for Digital Scholarship (library.nd.edu/cds) to see ways the Libraries are exploring new technologies to transform research, teaching and scholarship.
Administrative professionals make a difference every day

Learning opportunities help develop skills

BY ANGELA KNOBLECH, CONTINUOUS IMPROVEMENT

Thirty-one administrative staff members took part in the pilot of TAP 2 (Today’s Administrative Professional) offered by the Office of Human Resources this spring. Since the original TAP series was launched in 2009, more than 200 individuals have successfully completed the competency-based learning program designed to meet the evolving needs and increased responsibilities of today’s administrative staff. The series was so well received that participants eagerly requested additional learning opportunities.

“Our TAP participants have been integral in the development of TAP 2. The learning that has come from this program is one of our proudest moments, and we consider it to be a game changer for the participants,” says Linda Costas, director, Talent and Engagement in the Office of Human Resources.

The TAP 2 pilot consisted of a “blended” approach for participants of both instructor-led and webinar format to strengthen skills in problem-solving, relationship-building and creating an environment for continuous improvement.

“I valued the time most importantly for the people I met. I believe I perform in my job better when I have faces and personalities to put to the voices I talk to on the phone. TAP 2 provided the opportunity to hear about the experiences of other admins on campus and learn from their wide variety of expertise. The 5S session in particular had a big impact,” says Wendy Harris Hurley, administrative assistant for Building Services.

The Office of Continuous Improvement designed a session for TAP 2 introducing the 5S tool as a method for creating a clean, orderly high-performance work environment that exposes waste and makes problems immediately visible. The term 5S was developed in Japan and stands for the Japanese words sōri (tidiness), seiri (orderliness), seiso (cleanliness), seiketsu (standardization), and shitsuke (discipline). These words have been adapted to English to maintain “5S.”

Sort—eliminate all unnecessary items

Set in Order—functionally organize necessary items

Shine—keep work area or access areas free of debris or hindrances

Standardize—development standards via visual controls and procedures

Sustain—integrate checks and balances

“After the session, I started with a small 5S project because I often feel overwhelmed by taking on big projects. I began with doing a 5S on my purse—no more dumping out the contents to find my keys. Next I applied the tools to some drawers in my office,” says Harris Hurley. “Clutter has a big effect on my mind—so it felt great to declutter and get some organization. It felt great to know exactly where to find something when someone needed an item in a hurry.”

Julie Hogue of Romance Languages and Literatures had the same experience. “Learning the 5S tool caused me to view my workplace through a fresh lens. As a result, I removed extra items that were not being used and it made for a more professional and efficient environment to complete my daily tasks. The very next day when I was away from the office, my colleague was able to find what she needed to assist a student in need.”

Participants consistently report how they have made a difference in their workplace as a result of applying practical skills learned in all of the TAP sessions. They are then able to engage others by sharing ideas and spreading that expertise to others across campus.

Costas indicated that ensuring all staff members are equipped for success is vital. “I am proud that our University leadership is committed to learning and professional development for everyone. That commitment is realized all across campus in the men and women who benefit from our programs.”

For additional information on TAP and TAP 2 please contact susanhurley@nd.edu. For information regarding programs offered by the Office of Continuous Improvement, please contact cmullane@nd.edu.

NEW EMPLOYEES

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

Dwight D. Allison, Athletic Nutrition
Rebecca Blair, Alumni Association
Joseph Buckhanan, Custodian IT Solutions
Elizabeth A. Caldwell, Research Cores
Kathryn A. Capp, Women’s Basketball
Adam L. Carlisle, Athletics Compliance and Legal
Stephan A. Smith, Athletics Compliance and Legal
Joseph E. Dietz, Athletics Compliance and Legal
Freeze and Jill Monsfort, Cardinal Services
Diederik Dolan and Justin Rice, Career Center
Brett Fox, Center for Research Computing
Philip C. Harrison, Army ROTC

Jason Hilby, Infrastructure Services
Jessica Jackson-McLain, Office of General Counsel
Jason A. Kelly, Notre Dame Magazine
Ryan Krausy, Business School Information Technology
Kathleen D. Kaiku, Lab for Economic Opportunities
Blair S. Leonard, Morris Inn
Michael L. Hopper, Women’s Swimming and Diving
Joline Lock, Planning, Design, and Construction
Bruce J. Melancon, Chemistry and Biochemistry
La donna Minarik, Undergraduate Enrollment
Richard C. Ryan, Athletics Compliance and Legal
Stephen A. Smith, Security
Scott A. Thompson, Turbomachinery Facility

Joan J. Huang, Archives
Laverne M. Molend, Infrastructure Services
Slav C. Sewo and Richard E. Taylor, Chemistry and Biochemistry

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Stephen A. Smith, Security
Scott A. Thompson, Turbomachinery Facility

35 Years
Steven C. Warner, Campus Ministry

25 Years
Deborah A. Blasko, Center for Social Concerns
Barley A. Bark, Hesburgh Libraries
Nancy K. Davis, Aerospace and Mechanical Engineering
Timothy L. Hopper, and Kenneth A. Miller, Fire Protection
Jesse J. Huerta, Maintenance

20 Years
Jeffrey L. Duval, Athletic Grounds
Diane M. Grum, Hesburgh Libraries
Kenneth J. Hendricks, Gift Planning Administration
Scott R. Howland, Office for Students with Disabilities
Joan J. Huang, Campus Technology Services
Angela M. Kindig, Archives
Laverne M. Molenda, Infrastructure Services
Slav C. Sewo and Richard E. Taylor, Chemistry and Biochemistry

Thomas L. Snoub, Accountancy
Brenda S. Tucker, Investment Office
Jenna M. Zook, St. Michael’s Laundry

15 Years
Anamar Allan, Athletic Communications
Echevarria and Jessica R., Rutledge, Cardinal Services
Robert H. Battalio, Finance
Michael P. Brey, Men’s Basketball
Tracy L. Cabello, College of Engineering
Christopher R. Fruehwirth, Campus Technology Services
Kathleen A. Fulcher, Alliance for Catholic Education
James B. Lewis, Residence Halls Staff
Barbara J. Luter, Center for Liturgy
Michael P. McNally, Computer Science and Engineering
Francisco Medina, Food Services, South Dining Hall
Keys L. Montgomery and Michael M. Seeley, Development
Abdul R. Oman, Kroc Institute
Tammy S. Patterson, St. Michael’s Laundry
Margaret A. Strasser, University Counseling Center

Jeanette M. Toreik, History
Tammy D. Vargo, Business School–Information Technology
Sara B. Weber, Hesburgh Libraries

10 Years
Gerard M. Byrne, Men’s Lacrosse
Joseph H. Carey, Alliance for Catholic Education
Maureen G. Dawson, First Year of Studies
Antonio Garcia, Gabriela Rangel and Robert L., Williams, Food Services, South Dining Hall
Michael J. Jennewein, Clinical Law Center
Lloyd E. Mayer and Orlando C. Scedz, Law School
Ruben C. Medina, Development
Matthew M. Merten, Band
Keith Palmer, Transportation Services
Paul Pooley, Hockey
Brandon M. Rich, Customer IT Solutions
Raymond Vander Heyden, Career Center
Hong Zhu, Off-Campus Programs

FATHER MALLOY

Father Edward A. (Mick) Malloy enjoys cotton candy at a staff picnic circa 1982. See photos of this year’s Back to the 80s-themed picnic on page 8.
Have old bank statements, credit card applications, bills or other confidential papers piling up at home? Shred-it, the University's shred provider, in conjunction with the University Archives, is offering free, secure and confidential document destruction in the 3rd annual Employee Shred Event.

Bring your papers in for disposal from 11:30 a.m. to 1:30 p.m. Wednesday, July 15. A Shred-it truck will be parked in the C1 parking lot by the Compton Family Ice Arena, near the corner of Holy Cross and Leahy Drive.

Only paper can be shredded—staples are acceptable, but please remove any binders. CDs, DVDs and diskettes will be incinerated off-site.

3RD ANNUAL EMPLOYEE SHRED EVENT

If you're interested in making walking part of your daily life, think about joining WalkND, the University's official walking club—it's free and open to everyone on campus. Sign up at recregister.nd.edu and pick up a free pedometer, logbook and a campus map of walking routes at the front desk of Rolfs Sports Recreation Center.

"Everyone has the opportunity to get more activity into their day," says Jennie Phillips, assistant director of fitness and fitness facilities at RecSports. "You don't have to be training for a marathon—you just have to move."

PRIZEWINNING PHOTOGRAPHS

Johnston and Cashore recognized at annual competition

University photographers Barbara Johnston and Matt Cashore have once again been recognized with awards in the University Photographers' Association of America (upaa.org) annual print competition.

“The UPAA Annual Print Competition is unique among contests I've entered in that the entries must be submitted as prints, and are judged by the entire membership displayed in an art gallery. Who better to judge the work of university photographers than university photographers?”

This year's competition was held at the University of Michigan.

Barbara Johnston, Honorable Mention, News and Campus Life

Matt Cashore, 3rd Place, Campus Environment

Matt Cashore, 1st Place, News and College Life

MATT CASHORE

BARBARA JOHNSTON

PHOTO PROVIDED

Johnston and Cashore recognized at annual competition

3RD ANNUAL EMPLOYEE SHRED EVENT

HR STAFFERS GET TOGETHER EVERY DAY AT LUNCH TO WALK ON CAMPUS

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Nearly 2,800 guests attended the Back to the Future-themed staff picnic on June 11. The event included some rockin' 80s music provided by DJ Alicia Ivy, compliance coordinator in the Office of Human Resources. HR reports that 1,500 slap bracelets were slapped. Find a link to all our photos at hr.nd.edu.