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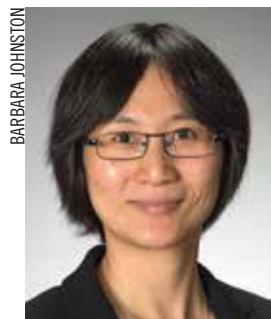
Smith



Braungart-Rieker



Cummings



Wang

NEWS BRIEFS

WHAT'S GOING ON

ND MEN'S STAFF RETREAT

The Notre Dame Men's Staff Retreat takes place from 2 to 4 p.m. Tuesday, April 25, in Club Naimoli in the Purcell Pavilion. The free program begins with lunch. Those of all faiths or who are searching are invited to attend. The program features Staff Chaplain **Rev. James A. Bracke, C.S.C.**, and **Karla Bellinger**, associate director of the John S. Marten Program in Homiletics and Liturgics. The program "promises to help with work/life balance, stress and give you strength for the journey," says Father Bracke. RSVP to bracke.4@nd.edu by Thursday, April 20.

FIFTH ANNUAL 'SHRED YOUR FILES AT WORK' EVENT

Have old personal or confidential papers piling up at home? The University's shred provider Shred-it, in conjunction with University Archives, will offer secure document destruction for all faculty, staff and students on Wednesday, April 26, from 11:30 a.m. to 1:30 p.m., rain or shine. A Shred-it truck will be parked on the east side of lot C-1, between the Joyce Center and Compton Family Ice Arena, just north of the intersection of Holy Cross and Leahy Drive. Only paper can be shredded, so please remove any binders (staples and paper clips are acceptable) and limit quantities to the equivalent of five standard storage boxes of paper. Empty boxes can be left for recycling.

TAX ASSISTANCE AVAILABLE

The Vivian Harrington Gray Notre Dame-Saint Mary's Tax Assistance Program provides free tax preparation services to eligible residents of St. Joseph County, including Notre Dame and Saint Mary's students who are U.S. citizens or legal permanent residents, with tax year earnings at or below the TAP income limit of \$45,000.

In addition, TAP provides income tax preparation for international students and scholars at or affiliated with Notre Dame or Saint Mary's College.

For more information on eligibility, filling out the intake form and making an appointment, visit tap.nd.edu.

PEOPLE

CLARK RECEIVES TWO LIFETIME ACHIEVEMENT AWARDS

Lee Anna Clark, chair of the Department of Psychology, will receive two lifetime achievement awards this year, reflecting the way her work has bridged two major areas of psychology.

The Society for Personality and Social Psychology presented Clark with the Jack Block Award for Distinguished Research in Personality in January. The Society for Research in Psychopathology will honor her with the Zubin Award later in the year.

Known for her research on the assessment of personality disorder, including the development of the Schedule for Nonadaptive and Adaptive Personality (SNAP), a psychological test that measures personality traits across the normal-abnormal spectrum, Clark is one of the Institute for Scientific Information's "most highly cited" psychologists.

Clark's current research is focused on identifying the core elements of personality pathology that are needed to diagnose personality disorder, and to determine how personality pathology relates to psychosocial disability.

SMITH RECIPIENT OF SLOAN RESEARCH FELLOWSHIP

Cody J. Smith, the Elizabeth and Michael Gallagher Assistant Professor of Neural Development and Regeneration, has been selected as a 2017 recipient of the prestigious Sloan Research Fellowship.

Every year the Alfred P. Sloan Foundation selects 126 promising early-career scholars from the fields of science, engineering, technology, mathematics and economics as recipients of the Sloan Research Fellowship. Recipients are awarded a two-year research grant in recognition of their distinguished performance and unique potential to make substantial contributions to their fields and society.

Smith's lab studies how the cells in the nervous system organize in the very early stages of nervous system development. Using time-lapse imaging to observe cells and the proteins within them as they perform various functions in the nervous systems of live zebrafish, Smith and his team are able to gain insight into how these cells and proteins can be targeted to provide therapeutic treatments for spinal injuries and diseases, such as multiple sclerosis (MS) and Charcot-Marie-Tooth disease (CMT).

CAMPUS NEWS

UNIVERSITY AGAIN RANKS AMONG TOP-PRODUCING FULBRIGHT UNIVERSITIES

Twenty-seven students were awarded Fulbright grants in the 2016-17 program, placing Notre Dame among the top-producing universities in the nation. These 27 students are currently working on their Fulbright projects abroad. Preliminary results for the 51 students who are semifinalists in the 2017-18 competition will be available by May.

The Fulbright U.S. Student Program Top Producing list appeared in the Chronicle of Higher Education in late February. Notre Dame was tied with Georgetown University in second place on the doctoral institution list, trailing only Brown University. This is the first time Notre Dame has appeared on the list for three consecutive years, and this is the University's highest ranking.

NIH AWARDS \$3 MILLION TO SHAW CENTER FOR CHILDREN AND FAMILIES

The National Institutes of Health has awarded researchers at Notre Dame a \$3 million grant to study the relationships between parents and infants, the first study of its kind that will include fathers and mothers as participants.

Julie Braungart-Rieker, Flaherty College Professor of Psychology and director of the William J. Shaw Center for Children and Families; **E. Mark Cummings**, Notre Dame Endowed Chair and professor of psychology; and **Lijuan Wang**, associate professor of psychology, will lead the five-year Notre Dame Families and Babies Study (ND-FABS) through the Shaw Center.

The researchers, who will work with babies living with their married or co-habiting parents, will study the stability of the parents' relationship and its effect on the well being of their baby. Parents will go through a program designed to encourage healthy parenting and communication.

UNIVERSITY PARTNERS WITH ADVANCED REGENERATIVE MANUFACTURING INSTITUTE

Researchers in bioengineering will join a consortium of academia, industry and government organizations and the nonprofit sector to develop next-generation manufacturing processes and technologies for cells, tissues and organs.

The Advanced Regenerative Manufacturing Institute (ARMI), Manufacturing USA initiative will bring together close to 100 partner organizations as part of continuing efforts to help revitalize American

WORKER PARTICIPATION COMMITTEE CONSIDERS PILOT PROGRAM, NEXT STEPS

The Worker Participation Committee will sponsor a forum, open to the campus community, at 4 p.m. Tuesday, March 28, in the Eck Visitors Center auditorium to report on its recent work and discuss future plans.

Established in 2013, the committee has studied the possibility of making changes to the University's policy prohibiting the manufacture of Notre Dame-licensed products in countries that do not allow full worker participation. The committee is chaired by Executive Vice President John Affleck-Graves and composed of faculty, students, staff and administrators.

Based upon assessments made by a consulting firm and factory visits by committee members, a small pilot program has been established in China with manufacturers that meet worker participation criteria determined by the committee. The forum is an opportunity to learn more about the pilot program and discuss next steps.

The forum will include remarks from Affleck-Graves; student subcommittee chair Hannah O'Brien; local conditions subcommittee chair **Chris Cervenak**, associate director of the Center for Civil and Human Rights; criteria subcommittee chair **Georges Enderle**, the Ryan Professor of International Business Ethics; interim licensing director **Tom Gerhold**; and a student subcommittee member. An open discussion will follow the prepared remarks.

manufacturing and incentivize companies to invest in new technology development in the United States. Approximately \$80 million from the Department of Defense will be combined with more than \$200 million in cost share to support the development of tissue and organ manufacturing capabilities.

NDIGD TO LEAD LONG-TERM IMPACT EVALUATIONS OF USAID DEVELOPMENT PROJECTS

The Notre Dame Initiative for Global Development (NDIGD) has received more than \$1 million, with additional funding being determined, from the U.S. Agency for International Development (USAID) to lead a collaborative partnership of five organizations charged with conducting retrospective long-term impact evaluations of completed USAID projects. The project is called Expanding the Reach of Impact Evaluation (ERIE) and will help guide decision making at USAID.

Retrospective impact evaluations will be conducted across various sectors and regions, including environment and sustainability, education, health, agriculture and food security.



VICE PRESIDENT MIKE PENCE TO BE HONORED AS NOTRE DAME'S 172ND COMMENCEMENT SPEAKER

Vice President Mike Pence will receive an honorary degree and serve as principal speaker at the University of Notre Dame's 172nd commencement ceremony May 21 (Sunday). He becomes the first vice president of the United States to deliver the commencement address at Notre Dame.

"It is fitting that in the 175th year of our founding on Indiana soil that Notre Dame recognize a native son who served our state and now the nation with quiet earnestness, moral conviction and a dedication to the common good characteristic of true statesmen," said Notre Dame President Rev. John I. Jenkins, C.S.C.

CONTACT US @

Comments or questions regarding NDWorks? Contact NDWorks managing editor Carol C. Bradley, 631-0445 (bradley.7@nd.edu) or Cidni Sanders, editor and program director for Internal Communications, 631-7031 (csander6@nd.edu). For questions regarding The Week @ ND or the University calendar, contact electronic media coordinator Jennifer Laiber, 631-4753 (laiber.1@nd.edu). NDWorks is published 11 times per year. 2016-2017 publication dates are July 7, Aug. 18, Sept. 22, Oct. 27, Dec. 8, Jan. 12, Jan. 26, Feb. 23, March 23, April 20 and May 18.

New from Notre Dame Press

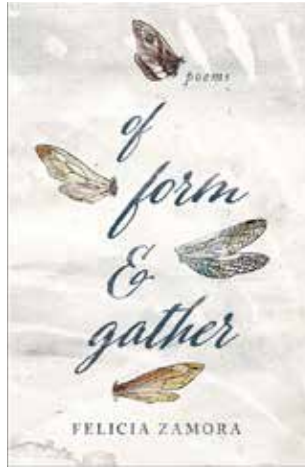
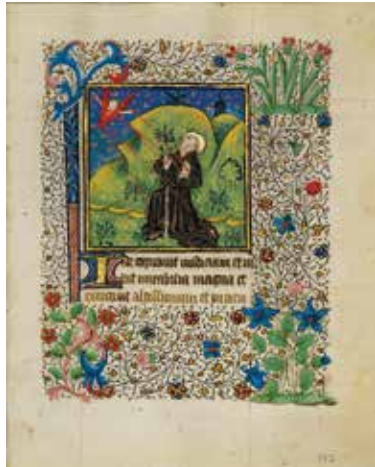
The University of Notre Dame Press has released **David T. Gura's** *A Descriptive Catalog of the Medieval and Renaissance Manuscripts of the University of Notre Dame and Saint Mary's College*.

Gura, Hesburgh Libraries associate librarian, has described the 288 medieval and Renaissance manuscripts held by the University (in the Hesburgh Library and the Snite Museum of Art) and Saint Mary's College. The bound manuscripts, leaves and fragments span the late 11th through 16th centuries, and include Bibles, books of hours, calendars, liturgical texts and more.

"Academic librarians, manuscript dealers and collectors, and the community of scholars, curators, and librarians who work with medieval and Renaissance manuscripts will find this an accessible and valuable resource."

Of Form & Gather by Felicia Zamora is the recipient of the 2016 Andrés Montoya Poetry Prize. The book marks the debut of Felicia Zamora, whose poems concern themselves with probing questions — Where does the self reside? What forms do we, as human beings, inhabit as we experience the world around us?

The Andrés Montoya Poetry Prize is named after the late California native and author of the award-winning



book *The Iceworker Sings*. The prize supports the work of emerging Latino/a poets. It is awarded every other year by the Institute for Latino Studies for an original poetry collection by a Latino/a poet who has yet to publish a book. All winners are published by the University of Notre Dame Press. Previous winners include David Campos, Laurie Ann Guerrero, Emma Trelles, Paul Martínez Pompa, Gabriel Gomez and Sheryl Luna.

"With the publication of this volume, the Andrés Montoya Poetry Prize, now in its seventh edition, emphatically makes good on its aim to nurture the various paths that Latino/a poetry is taking in the twenty-first century."



Vision and Action: Pioneering Women Faculty at Notre Dame

Panel discussion, 4 p.m. Wednesday, March 29, reception to follow Decio Mainstage Theatre, DeBartolo Performing Arts Center

Reflections on the early influences and experiences of pioneering women faculty, and their aspirations for the future of the University. The event, which is open to the public, is free and non-ticketed.

MODERATOR

Mary Celeste Kearney
Director, Gender Studies

PANELISTS

Sister Kathleen Cannon, O.P.
Associate Dean, College of Science

Angie Chamblee
Retired Senior Associate Dean, First Year of Studies

Nancy Haegel '81
Notre Dame Trustee

Valerie Sayers
Professor of English

Ann Tenbrunsel
David E. Gallo Professor of Business Ethics

provost.nd.edu/visionandaction



TAKE OUR T
THREE-QUESTION
SURVEY

Twenty randomly selected respondents to this mailer or the link in the March 27 edition of *The Week@ND* will receive a Notre Dame chocolate bar from the South Bend Chocolate Company. You must include your email address to win.

1. What information do you look specifically to NDWorks to provide?

2. What other sources do you look to for campus news?

3. Do you have a story idea for us?

Do you love your job, or know someone in the office who's an outstanding volunteer in the community — or wish people knew more about the work going on in your area?

Let us know what's going on in the campus community for future NDWorks stories.

Clip and return this form via campus mail to NDWorks, 500 Grace Hall, or respond online via the link in *The Week@ND*'s Monday, March 27, edition or on insideND.

If you'd like to compete for a prize, please include your name and email address below:

Name

Email

Clip and return this form via campus mail to NDWorks, 500 Grace Hall



THANK YOU!

WOMEN LEAD

Tomorrow belongs to the bold. The University is proud to celebrate women whose scholarship and leadership are empowering change in the global community. For more on their stories, visit womenlead2017.nd.edu.

Photos by Barbara Johnston.



SELENA ANDERS

School of Architecture

Assistant Professor, Co-Director HUE/ND and Associate Director DHARMA Lab

Selena Anders, assistant professor in the School of Architecture, is a practicing design professional, educator and researcher. She is also an associate director and co-founder of the Digital Historical Architectural Research and Material Analysis (DHARMA) with Professor **Krupali Krusche**. The research team is working to digitally document historic buildings and sites like the Roman Forum, the Taj Mahal, the Vatican's Belvedere Courtyard and Mughal Tombs in Agra, India.

Students who study abroad in Italy with Selena also have an opportunity to travel to China, where they take in the common threads of architecture between Western designs and Eastern designs in Shanghai, Hong Kong and Beijing. "Architectural languages allow you to see shared traditions while also appreciating the local character and uniqueness of a place," Anders says.

TRICIA BELLIA

Notre Dame Law School

William J. and Dorothy K. O'Neill Professor of Law

Tricia Bellia's research focuses on the intersection of law and communications technologies.

"Internet-related legal questions demand that we constantly reassess our general assumptions about how the law develops and operates, and 'cyberlaw' provides a lens for doing just that," she says.

A member of the Notre Dame faculty since 2000, Bellia is a co-author of a leading cyberlaw casebook and has published several articles on internet law and separation of powers. Since 2009, Bellia has served as the chair of the University's Faculty Board on Athletics, the principal advisory group to the president on educational issues related to intercollegiate athletics. In addition to chairing the FBA, Bellia serves as Notre Dame's faculty athletics representative to the National Collegiate Athletic Association.



SHARON HU

College of Engineering

Professor of Computer Science and Engineering

Growing up in China, says Sharon Hu, "I never thought of it as abnormal to think I should be an engineer." Both her parents were engineers, and seeing them go to work each morning left a lasting impression on her and her career aspirations.

When Hu joined the University in 1996 as an assistant professor, she recalls that for several years, she was the only female faculty member in the department. Hu has worked since to ensure that the number of female engineers multiplies.

Hu's research focuses on hardware-software co-design. Those concepts have led to patents and licenses that address a variety of computing challenges. Hu's research is being used to reduce energy consumption of various systems and can be applied to deep learning engines, image processing and more.





ATALIA OMER

Keough School of Global Affairs

Associate Professor of Religion, Conflict and Peace Studies

While Atalia Omer was growing up in Jerusalem, the debate in her home centered on the future of Israel, and often proved as intense as the love her father and grandfather shared for each other.

Omer, an expert in religion, nationalism and peacebuilding in Notre Dame's Keough School of Global Affairs and the Kroc Institute for International Peace Studies, continues to explore the themes emerging from her family's debate in her research and teaching today. Her work centers around how religion participates in constructing, reproducing and reimagining national identity and objectives, especially pertaining to questions of peace and justice.

Her study of the interrelations between religion, nationalism and identity has taken on new importance in light of the increasing political polarization in America today.

DIANNE PINDERHUGHES

College of Arts and Letters

Chair of the Department of Africana Studies and Professor in the Department of Political Science

The chair of Notre Dame's Department of Africana Studies and professor of political science, Dianne Pinderhughes has dedicated her career to leading the fight for equality and representation for minorities and women in the American political system and in higher education.

She actively works to ensure that the University is recruiting more women and minority scholars — another area where she's seen advances — and hopes for further progress.

"I see my role as trying to open up society to make us more accessible and more democratic," she says, "and for me that means recognizing the continued importance of race and acknowledging the enormous contributions that African-Americans, Latinos, Asian-Americans, and Native Americans have made to our society."



CLAUDIA POLINI

College of Science

Rev. John Cardinal O'Hara, C.S.C., Professor of Mathematics

Mathematician Claudia Polini focuses on commutative algebra and its interactions with algebraic geometry. She uncovers the properties of systems of polynomial equations associated with complex shapes in multiple dimensions — findings that have applications in robotics, statistics and 3-D design imaging.

In mathematics, Polini says, "You're looking for a truth. Mathematics is absolute. When you've proven something, you've really proven it. Unlike other sciences where a new experiment or a new technology can destroy the belief of a generation, mathematical proofs withstand the passing of time. There is an immortality in mathematics that distinguishes it from other subjects. We still study in middle school or high school the mathematics discovered by the ancient Greeks more than 2,000 years ago."

KATHERINE SPIESS

Mendoza College of Business

Associate Dean for Graduate Programs, Associate Professor of Finance

A Mendoza faculty member since 1991, Katherine Spiess has built a successful teaching, research and administrative career with numerous distinctions and awards, including an All Star Paper recognition from the Journal of Financial Economics, a Kaneb Teaching Award, Outstanding Teacher in the M.S. in Management program and a BP Amoco Outstanding Teacher Award.

Her research has focused on the stock market impact of security offerings, exploring topics such as equity offerings and securities regulation.

In the classroom she helps undergraduate and graduate business students learn the fundamentals of corporate finance, as well as advanced subjects such as mergers and acquisitions. Whenever possible, she incorporates extensive project-based applications that require students to integrate and apply the concepts learned in her classes in real-world settings.



Cover Story

Going geothermal



PHOTOS: MATT CASHORE

Installation of a geothermal well field beneath the parking lots south of Notre Dame Stadium consists of approximately 500 wells and 1,000 tons of capacity.



Wells are drilled to a depth of around 300 feet.

University installing renewable energy system across campus

FROM THE OFFICE OF SUSTAINABILITY

In an effort to heed Pope Francis' call to be better stewards of our shared Earth and to start implementing the University's new comprehensive sustainability strategy, Notre Dame has begun planning and installing several geothermal systems across campus.

Geothermal systems are sustainable energy systems that allow the University to reduce greenhouse gas production, increase energy security and capitalize on long-term cost savings. Notre Dame's systems are tailored specifically toward heating and cooling campus buildings by taking advantage of the Earth's ability to store heat in its crust.

Due to the rising heat from magma below the Earth's crust, and solar energy absorbed on the surface, the upper layer of the Earth maintains a nearly constant elevated temperature despite fluctuations in outside air temperature.

Geothermal systems take advantage of this renewable source of energy by utilizing a network of water-filled pipes to bring heat from the warm ground during the winter, and deposit excess surface heat in the cooler ground during the summer.

Notre Dame's systems work by circulating water in a closed-loop piping system to a depth of roughly 300 feet before returning it to the surface and distributing it through an energy center that acts as a heat exchanger. The heat from the Earth warms the water in the pipes to a constant elevated temperature of approximately 50 to 55 degrees Fahrenheit, thereby reducing the amount of energy required to produce the desired hot or cold indoor air temperatures.

The first phase of this project was completed on East Quad this spring. In order to provide more efficient heating and cooling to the Ricci Band Building and Pasquerilla Center, a 300-ton geothermal energy field was installed in the grassy quad south of McCourtney Hall and east of Hesburgh Library. Consisting of 153 wells, the system provides Ricci and Pasquerilla with 150 tons of capacity, leaving 150 additional tons available for future development.

The second phase was implemented over the summer with the installation of a geothermal well field beneath the parking lots south of Notre Dame Stadium. Consisting of approximately 500 wells and 1,000 tons of capacity, this field is considerably larger than the Ricci/Pasquerilla field. Unlike the East Quad system, which provides heating and cooling exclusively for specific buildings, the south campus system will be tied both to future

buildings in the area and to the central campus chilled water system.

"Connecting our geothermal fields to both localized and centralized systems allows the University to maximize its energy efficiency," says **Paul Kempf**, senior director of utilities and maintenance. "If more chilled water is produced than the local building needs, the excess can be put into the central system for use elsewhere on campus."

The third phase, currently under construction, is the installation of approximately 650 wells and 1,350 tons of capacity under what will become the new Ricci Athletic Fields on the north end of campus. This system will connect to a new remote chiller plant to be located just east of Wilson Drive. Connecting this geothermal field to the plant will increase flexibility by allowing the field to serve both the central chilled water cooling system and a new regional east campus hot water heating system.

When completed, these three

systems together will have the capacity to reduce Notre Dame's carbon dioxide emissions by 11,803 tons, an 8 percent reduction compared to fiscal year 2016 and the equivalent of taking almost 1,000 cars off the road each year.

In addition to these planned phases, several areas of campus remain under review for potential geothermal fields. White Field is being considered for a scalable 2,300-ton well field to support future north campus growth, and the Burke Golf Course is being considered for a scalable 2,000-ton geothermal field to support West and South Quads.

The total capacity of all of the proposed systems is 7,000 tons, or approximately one-half of the University's current peak demand during the cooling season.

"Because geothermal systems transfer heat from one place to another instead of burning fossil fuels like conventional boilers, they emit no greenhouse gasses. This reduces

New College of Engineering minor targets resiliency and sustainability

Developing a new generation of leaders

BY NINA WELDING,
COLLEGE OF ENGINEERING

Every four years the American Society of Civil Engineers (ASCE) issues a "report card" highlighting the status of the nation's infrastructure: its roads; bridges and dams; drinking water; treatment of wastewater, solid waste and hazardous waste; and more. When the organization last shared its assessment of America's infrastructure, it was 2013. Not only did the country receive a poor grade (a D+), but the ASCE estimated that approximately \$3.6 trillion would be needed to raise the grade and the quality and safety of the infrastructure.

The economy is tied to the health of the infrastructure. Long-term funding sources for maintenance and

modernization are critical. However, equally as critical is the development of leaders who can generate novel solutions and sustainable policies that protect cities and citizens from natural disasters [like earthquakes and hurricanes] and manmade hazards [such as water and air pollution], while also providing greater flexibility for mitigating the effects of such events. These future innovators are the target of a new minor being offered by the Department of Civil & Environmental Engineering & Earth Sciences in the College of Engineering at the University — the Resiliency and Sustainability of Engineering Systems minor.

According to **Elizabeth Kerr**, the director of undergraduate studies in the department, "Engineering impacts society on a daily basis. Students hear this all the time as they focus on technical proficiency in their coursework. This minor provides students

the opportunity to look beyond the technical aspects of their engineering designs to the impact they will have on individual neighborhoods and society as a whole. It will help them better understand the critical nature of what they are doing in relation to the long-term effects of their designs and their actions."

Available to all engineering undergraduate students, the new minor focuses on the complex interactions and interdependencies between the natural and built environments. Students enrolled in the minor will study the technical aspects of engineering systems, such as roads, bridges, water treatment and energy grids in communities — including safety codes and regulations. They will also learn the historical and economic framework that guided public policy, as well as the environmental impact of built systems on ecosystems.

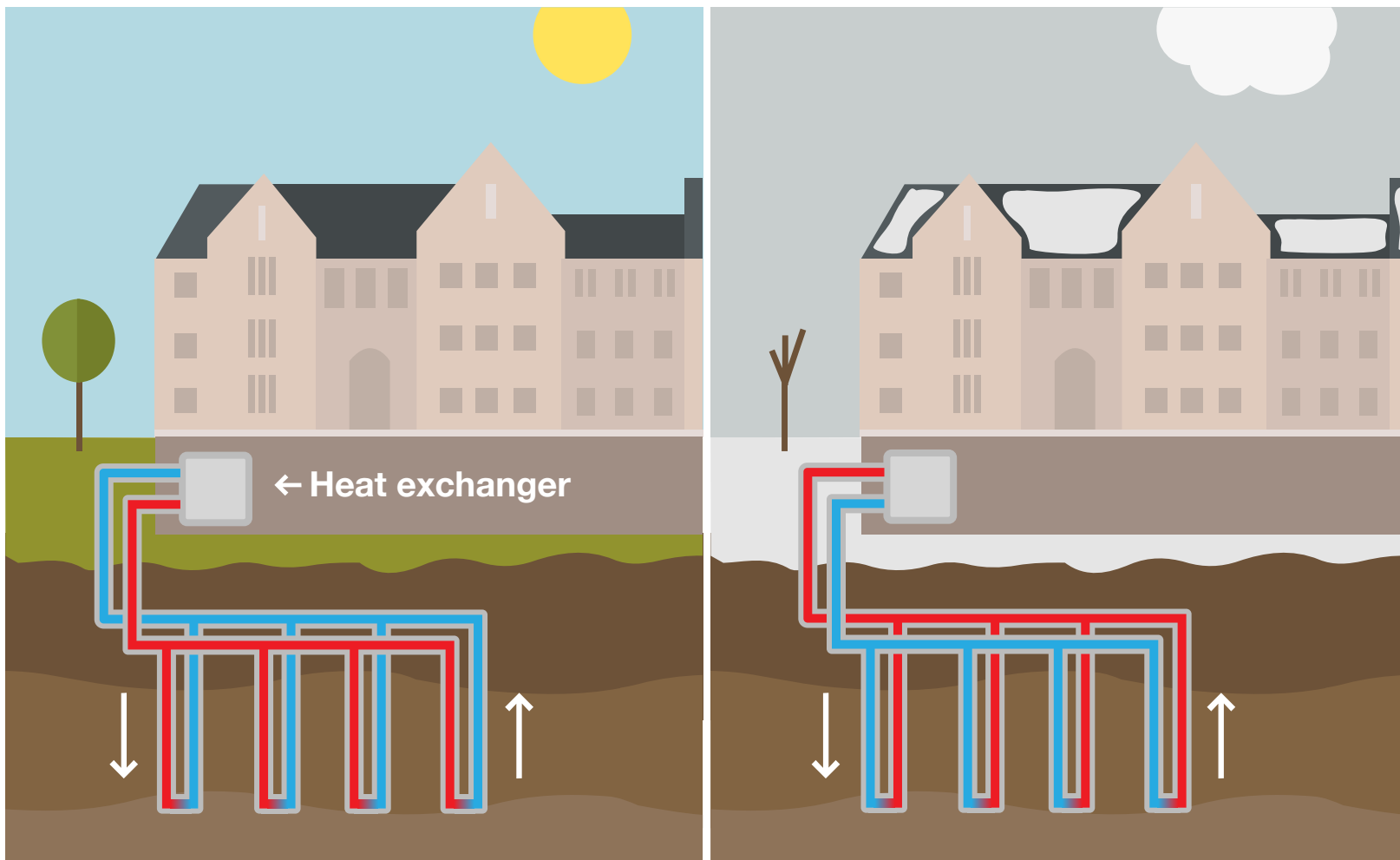
These linkages between man and environment are critical to understanding the ethics and issues of interconnected systems as simple as a neighborhood street or as complex as the national highway system. The minor will also emphasize communication skills so students will be well-equipped to work with city planners and policy makers and to interact with the public.

Courses in the minor offer an overview of the technical, economical and political issues in resiliency and sustainability. They encompass classes from across the University, such as political science, psychology, philosophy, laws, economics and sociology.

Students must complete a total of 16 hours, composed of two required courses, three elective courses, and either a capstone project or summer internship [with a governmental body, regulatory agency or environmental advocacy group] to be

granted the minor.

"The importance to the future in the training of professionals and engineers for sustainable and resilient development cannot be overstated," says **Peter Kilpatrick**, the McCloskey Dean of Engineering. "The minor is an important step for the department, one that is consistent with the University's mission to be a powerful means for good. It is also a moral imperative as described in Pope Francis' Encyclical *Laudato Si — On Care for Our Common Home ...* 'Living our vocation to be protectors of God's handiwork is essential to a life of virtue; it is not an optional or a secondary aspect of our Christian experience.'"



The geothermal systems work by circulating water in a closed-loop piping system to a depth of roughly 300 feet before returning it to the surface and distributing it through an energy center that acts as a heat exchanger. Heat from the Earth warms the water in the pipes to a constant temperature of approximately 50 to 55 degrees Fahrenheit, thereby reducing the amount of energy required to produce the desired hot or cold indoor air temperatures.

pollution and improves air quality,” says **Linda Kurtos**, director of sustainability.

“Additionally, closed-loop systems like those being installed at Notre Dame don’t consume any water. The system is filled and the water is pumped through the well field where energy is transferred; these systems improve the sustainability of the system and the campus as a whole.”

Compared to other renewable energy sources, geothermal applications have a positive return on investment as installation costs are quickly recouped through energy cost savings. The estimated capital cost of the systems being installed on Notre Dame’s campus is approximately \$40 million. The University expects to see a return on investment in about 15 years.

Additionally, harnessing geothermal energy does not directly involve the combustion of any fuel; rather it uses electricity and a higher efficiency energy cycle, thus limiting the impact of energy cost fluctuations, and

allows for more sustainable sources of energy production to be utilized to provide the electricity, thereby increasing Notre Dame’s energy and financial security.

Notre Dame joins more than 100 colleges across the country that use geothermal as a campus energy source. In fact, the nation’s largest closed loop geothermal system to date is in Notre Dame’s backyard at Ball State University, 140 miles to the Southeast in Muncie, Indiana.

In addition to geothermal, the University is looking to expand its renewable energy portfolio to include a 2.25-megawatt hydroelectric project on the St. Joseph River in partnership with the city of South Bend, large-scale regeneration through the installation of a heat recovery system at the power plant to support east campus, as well as several potential solar projects.



The third phase of the project, currently under construction, is the installation of approximately 650 wells and 1,350 tons of capacity under what will become the new Ricci Athletic Fields on the north end of campus. This system will connect to a new remote chiller plant to be located just east of Wilson Drive.

University to observe Earth Hour on March 25



MATT CASHORE

BY DONNETTA MCCLELLAN,
OFFICE OF SUSTAINABILITY

On Saturday, March 25 from 8:30 to 9:30 p.m., Notre Dame will once again participate in Earth Hour by turning off the lights on the Golden Dome and the Word of Life Mural on the Hesburgh Library.

Across the world, leading institutions and municipalities will turn off the lights of iconic buildings and structures to show their solidarity for fighting climate change. Last year 178 countries and territories switched off their lights in solidarity, participating in the symbolic event, including some of the world’s most iconic landmarks such as Sydney Opera House (Sydney, Australia), Big Ben and the Houses of Parliament (London), the Tokyo Tower (Tokyo), the Empire State Building (New

York), Marina Bay Sands Hotel (Singapore), the Eiffel Tower (Paris) and St. Peter’s Basilica (Rome).

This year marks the 11th anniversary of Earth Hour. In addition to lights out on the Golden Dome and the Word of Life Mural, **Rev. Terry Ehrman, C.S.C.**, will preside over a candlelight Mass at the Grotto. In the event of inclement weather, Mass will take place at an indoor location.

Not going to be on campus? We encourage you to participate from wherever you may be by turning off the lights in your home and enjoying dinner by candlelight, taking a moonlit stroll, or simply enjoying the peace and quiet that can be found when we power down our lights and our devices.

#ChangeClimateChange.

The lights on the Word of Life Mural are turned off annually in observance of Earth Hour.

Transforming the teaching of organic chemistry

New tools utilize iPads, apps and Apple TV

BY MATT WHITMORE, OIT

Think back to the last time you took a chemistry course. What tools did you use to help you understand the material? Some preferred the wooden ball-and-stick models of specific molecules, while other students would use textbooks or sketch reactions on notebook paper.

Professors **Paul Helquist** and **Jim Parise**, both in the Department of Chemistry and Biochemistry, co-teach Organic Structure and Reactivity. This first-year organic chemistry course has nearly 440 students enrolled this semester. Helquist and Parise have augmented traditional course materials with technology to transform how Notre Dame students learn organic chemistry.

Given the visual and three-dimensional nature of chemistry, tools that help students attain a better understanding of the subject material can also help them develop skills and retain the concepts. This can lead to greater success throughout their degree program. To accomplish this, Helquist and Parise are using iPads with the innovative use of apps and wireless projection technology in Jordan Hall of Science.

Working in partnership with OIT and Engineering and Science Computing, the class is divided into teams of six students, and each team chooses a clever chemistry-related name, like “The Atoms Family.” They are also provided with an iPad preloaded with apps for drawing and sketching, viewing animations of chemistry reactions and concepts, and building molecular structures.

Instead of viewing a printed drawing of a chemical reaction, students now have access to detailed

animations that can be viewed on a loop until the concept is fully understood. In addition to simply sketching a molecule on paper, 3-D models can be rapidly built, revised in-class, and projected on-screen or submitted digitally by the group to TAs for grading.

Organic Structure and Reactivity is taught in Room 105 — a large classroom outfitted with three projectors and three Apple TVs. The Apple TVs allow students to wirelessly project their iPad from anywhere in the room. At the same time, Helquist and Parise can simultaneously display slides and demonstrate a concept with the same apps while inviting teams to share their answers to questions posed during class. This use of technology facilitates discussion and rapid review without interrupting the rhythm of leading a large class section.

iPads have been used in this course before. However, this is the first time all sections have taken advantage of iPads, making Organic Structure and Reactivity the largest course that has utilized iPads since the start of the iPad lease pilot. This pilot will conclude at the end of the semester. To offset the total cost of the iPads, management tools and apps for the class, that cost was split among the students, bringing to less than \$20 per student.

More information on using iPads in the classroom is available by contacting the mobileND program at mobile@nd.edu.



PHOTO PROVIDED

First-year organic chemistry utilizes three Apple TVs.

Family Connections

The Jacksons

CHRIS BENNINGHOFF,
FOR NDWORKS

When **Forestine Jackson** talks about her Notre Dame family, she often means it in the most literal sense.

Forestine, a records processor for the Department of Psychology, counts her husband, a sister-in-law, a cousin and four nieces as fellow University employees.

Her husband, **A.D. Jackson**, works in maintenance at the Joyce Center; sister-in-law **Norma Pearson**, cousin **Eishau Allen** and nieces **Tasha Jackson**, **Shnikkia Jackson Coleman**, **Tisha Jackson** and **Regina Pearson**, all work in

Food Services. **Anthony Clark**, her nephew, has worked for campus security for more than 25 years.

Two of Forestine's sisters and a brother also were on staff in the past. One of the sisters, then director of Upward Bound, introduced Forestine to campus through the Project Step student employment program.

Forestine now is on her third tour

of employment at the University.

She first began work at ND as a clerk-typist in 1985. From 1997 to 2007, she was employed by the National Consortium for Graduate Degrees for Minorities in Engineering and Science Inc. (GEM). After that program moved to Washington, D.C., Forestine took the psychology department job.

Working out of an office on Hill Street in South Bend now, Forestine doesn't run into her relatives on campus much. She more often hears from colleagues that they've seen “her people” at the North Dining Hall.

Forestine's outreach doesn't stop at connecting family members with opportunities at the University.

Cecilia Lucero, an academic adviser with Notre Dame's First Year of Studies program who had worked with Forestine in the GEM program and has stayed in touch with her over the years, notes that Forestine and “her whole family” engage in helping the community.

“Sometimes we get busy and do

things,” Forestine says.

Perhaps her most ambitious effort is a collection of stories of African-American women living with chronic health conditions, “The Weeps of Mary and Moans of Martha,” that she helped compile in 2016 to foster understanding of the challenges.

The self-published book was inspired by Jermette Bishop and Sharon Honeycutt-Walker and edited by Lucero and Rose Garth-Clark. Five hundred copies have been handed out locally.

Forestine also collects books for needy children and distributes supplies to homeless veterans and the elderly.

Recently, Forestine snapped a cell-phone photo of an aunt. The aunt's friend wanted one, too. So, making portraits for the seniors at her aunt's apartment complex has become Forestine's latest mission of good work.

“I came from a large family and people always helped us,” she explains. “I feel like I'm giving back. I started studying social services and didn't end up pursuing it. But I decided that I can still be a resource. I can still do social service.”



Forestine Jackson

Notre Dame Learning at Work Academy



IVY Tech Associate Degree in Applied Business Information Meeting: Wednesday, March 29

3 - 5 p.m.

Grace Hall (lower level training room)

Come learn about this fully funded benefit for Notre Dame staff.

Classes begin Summer 2017

Classes are led by IVY Tech instructors and are conveniently located on the Notre Dame campus.

For more information, contact askHR at (574) 631-5900 or askhr@nd.edu.

Family Connections Mother's Day

Watch for our Family Connections Mother's Day special in the May issue of NDWorks, available April 20. We'll be featuring moms with sons or daughters who also work on campus.

NDWorks' ongoing Family Connections series features family members who work on campus. If you'd like to be considered for a feature, email editor [Carol C. Bradley, bradley.7@nd.edu](mailto:carol.c.bradley@nd.edu).

PHOTO PROVIDED



Left to right, Jackson's cousin, **Eishau Allen**, North Dining Hall; Forestine Jackson, psychology; **Tisha Jackson**, **Tasha Jackson** and **Shnikkia Jackson Coleman** (Jackson's nieces, who are sisters and all work in North Dining Hall); niece **Regina Pearson**, North Dining Hall; seated are Forestine's husband **A.D. Jackson**, Joyce Center custodial services; next to him is his sister **Norma Pearson** (Regina's mom), University Catering. Not pictured is **Yolinda Odemba**, (the mother of Forestine's grandson, **Dominique**) who works at the Morris Inn.

SERVICE ANNIVERSARIES

The University congratulates those employees celebrating significant service anniversaries in **April**:

20 Years

Kenneth J. Makielski, North Dining Hall
Kimberly C. Umbaugh, Customer IT Solutions

15 Years

Elizabeth A. Karnes, Procurement Services
Donald Keen, Cedar Grove Cemetery
Carolyn A. Lax, Development
Kristina K. Machalleck, Special Events and Stewardship
Kelly A. McNally, Hesburgh Libraries
Benita Ramirez, North Dining Hall
Marie E. Revak, Economics
Roumena Roumenova, Building Services

10 Years

Wendy L. Barnes, Institute for Educational Initiatives
Joan Fallon, Kroc Institute
Tommy Nettavong, South Dining Hall
Angela M. Sienko, Mendoza College of Business
Reginald Troutman, Rolf's Sports Rec Center
Marlon D. Yoder, Maintenance

NEW EMPLOYEES

The University welcomes the following employees who began work in **February**:

Issachar Aboagye and **Cheyenne A. Pelis**, Morris Inn
Charles E. Allen, Office of Sustainability
Kevin P. Allen and **Amanda A. Perry**, Law School
Brandon M. Blount and **Mark Morrell**, Center for Culinary Excellence
Gabriel J. Campbell, Chemical and Biomolecular Engineering
Kayla N. Campbell and **Sharon Wilkes**, Custodial Services
Xinping Chen and **Katherine A. Coleman**, Biological Sciences
Steve Cheng and **Kristian T. Lee**, North Dining Hall
Aaron R. Coeling, **Robert D. Jones**, **Tyler M. Santucci** and **Ryan T. Seherer**, Football
Kathleen E. Cover, Career Center
Brenda L. Harrington, Payroll Services
Amy L. Hoffman, Center for the Study of Languages and Cultures

Aubrey K. Jean and **Jordan V. Webb**, Varsity Strength and Conditioning
Kimberly A. Kolk, Office of Housing
Sean L. McPherson, Turbomachinery Facility
Margaret M. McVeigh, Theology
Jessica E. Millen, ESTEEM
Andre S. Moore, Food Services, Holy Cross House
Grace L. Morrison, Alumni Association
John J. Nyerges, Fire Protection
Terron J. Phillips, Executive Education
Yanbing Qi, Office of Digital Asset Management
Swapna Krishnakumr Radha, Center for Research Computing
Bryan K. Ritchie, Office of the Provost
Anna Johnson and **Jennifer L. Speary**, Office of Campus Safety

IN MEMORY

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

David Sullivan (Hesburgh Libraries) Dec. 12
Benny Ray Williams (Retiree) Feb. 16
Roy Mullins (Term-vested employee) Feb. 16
Timothy S. Fuerst (O'Neill Professor of Economics) Feb. 21
Norman Horvath (Retiree, Payroll) Feb. 23
Cecil M. Joiner (Retiree, Hesburgh Library) Feb. 24
Thomas H. Singer (Retiree, Law School) March 4
William Michael Alexander (OIT) March 5
Richard R. Otter (Retiree, Mathematics) March 6

Ansari family's gift aims to unite global religions

New institute will be part of the Keough School

BY DENNIS BROWN, MEDIA RELATIONS

Rafat and Zoreen Ansari and their family, of South Bend, have made a \$15 million gift to the University for the creation of an institute dedicated to the study of religion around the world.

"The need for people of faith to focus on what unites us rather than on what divides us has never been more urgent," says **Rev. John I. Jenkins, C.S.C.**, Notre Dame's president. "This extraordinary gift from an esteemed local Muslim family, longtime friends of Notre Dame, will allow us to bring together scholars of the first order to foster dialogue and deepen understanding. We are immensely grateful to the Ansaris for making this aspiration a reality."

The Rafat and Zoreen Ansari Institute for Global Engagement with Religion will be a part of Notre Dame's new Donald R. Keough School of Global Affairs. Through research, teaching, outreach and interaction with religious communities worldwide, the institute will be a center of public deliberation and education about all religions. In particular, faculty will study how religious teachings, traditions, history, practice and thought inform the rapidly shifting patterns of global migration, conflict and peace-building, political culture and human development.

The Ansari Institute will appoint faculty members who study the roles religions play in the public sphere and in crucial sectors such as health care, education and the economy. They also will focus on the distinctive – and often overlooked – contributions religions make to the common good. In addition, the institute will create fellowships for promising graduate students and organize a series of conferences convening the foremost leaders, practitioners and thinkers engaged in inter-religious and religious-secular dialogue about issues of pressing social concern.

Notre Dame parents, Rafat and Zoreen Ansari moved in 1980 to South Bend, where they raised their three children – Sarah, Adam and Sonya. Their passion for the Ansari Institute is a reflection of their hope that it will help foster partnerships globally and locally, and that communities large and small – from South Bend to Jerusalem – can be brought together through a shared understanding of certain guiding principles inherent in all the world's religions.

"Notre Dame is well-positioned to understand and enhance the role of religions and religious people in addressing systematic problems like poverty and violence – something we care about deeply," the Ansaris said. "Having raised our family and built our lives in this community, so close to Notre Dame, we determined that now is the ideal time to partner with the University in this new way."

ND Trail pilgrims will walk 13 days to honor 175 years

Public is invited to join 5-day, 3-day or free 1-day walk

BY SCOTT PALMER, FOR NDWORKS

"I'm no athlete," says **Carol Mullaney**, director of the Office of Continuous Improvement. "If this involved running, I'd disqualify myself. But I can walk and ride a bike, so I'm up for the challenge."

That challenge is the Notre Dame Trail, a 13-day pilgrimage from southwestern Indiana to Notre Dame. This August, Mullaney and a small group of pilgrims will commemorate the University's founding by following in, quite literally, the founders' own footsteps — a trek of more than 300 miles.



Father Sorin's vision

In November 1842, Rev. Edward Sorin, C.S.C., and several Holy Cross brothers set out from Vincennes, Indiana to start a Catholic university that Father Sorin envisioned would be "a powerful means for doing good in this country." After passing

through the fur-trading town of South Bend 10 days later, the weary travelers completed their journey at a small log chapel on farmland that would soon become the University of Notre Dame.

Today, Mullaney's decision to relive Notre Dame's humble past has more to do with its hopeful future. "This pilgrimage honors Father Sorin and his vision of what Notre Dame could do for the world," Mullaney says. "How do we live out and develop that vision? What is our purpose? What can I contribute — as a staff member, as an alumna, as just me — in terms of bringing good into this world?"

Mullaney will have plenty of time — and distance — to reflect on such questions. "We'll cover about 20 miles of walking and 10 miles of biking each day for the first eight days," she notes. Mullaney has already begun training by walking several miles on most days, and even more on weekends.

In addition to the physical and spiritual challenges, Mullaney looks forward to a closer Notre Dame community. The final 67 miles of the

pilgrimage are open to all, and Mullaney hopes to make new friendships and strengthen existing ones while on the trail. "I'm really excited about not only getting to know the core pilgrim group well, but a lot of my colleagues and friends are planning to join us for the five-day, three-day or one-day walk. I think it's going to be a lot of fun."

All are welcome

Faculty and staff are invited to join the pilgrimage as it passes through Rochester, Plymouth or South Bend and concludes with a 175th Anniversary pilgrim's Mass and picnic. Registration fees for the five-day and three-day walks include lodging and meals. The one-day walk on Saturday, Aug. 26 from South Bend — just three miles — is free and open to all ages. Registration information is available at trail.nd.edu.

"Whether you are affiliated with Notre Dame or not, this is a celebration of what Notre Dame's founding has meant for all of Michiana," Mullaney says. "Anyone can do this," she encourages. "It's a challenge, but you don't have to be an athlete. I'm definitely not."



Mullaney checks her training schedule.

ND Arts

APRIL 2017



◀ Hernán Reinaudo



Solera Quartet ▶



◀ Idomeneo



Twelfth Night ▶

For tickets to events at the DeBartolo Performing Arts Center, visit performingarts.nd.edu and create an account or log in to view faculty/staff discounted ticket prices, or contact the ticket office, 631-2800. Ticket prices listed below are the faculty/staff rate.

THEATER

Christ's Passion:

Medieval Mystery Plays

Department of Film, Television, and Theatre

7:30 p.m., Wednesday-Saturday, April 5-8; \$12

2:30 p.m., Sunday, April 9

7:30 p.m., Tuesday and Wednesday, April 11-12

Philbin Studio Theatre

Adapted by Mark Pilkinton. Developed at Notre Dame in 1996 and originally produced in Washington Hall, presented now as a prelude to Easter.

Acting Right: Drama as a Classroom Management Workshop

Kennedy Center Teacher Workshop

4 p.m., Wednesday, April 19; \$5

Philbin Studio Theatre

Actor and educator Sean Layne has taken the foundational elements of acting such as concentration, cooperation, and collaboration and created a structured process which can become the basis for effective classroom management every day. This engaging, step-by-step approach empowers students to take ownership of and be responsible for their own behavior while building the skills necessary to establish a sense of self-control, accountability, and teambuilding in the classroom. Students also learn how to have curriculum-centered conversations and create physical models of their thinking. This three-hour workshop empowers teachers with the "how-to" for creating a classroom community that will thrive with active, social and cooperative learning.

MUSIC

Kronos Quartet with Wu Man Presenting Series

7:30 p.m., Saturday, March 25; \$32

Leighton Concert Hall

In Chinese thought, spring is associated with the direction east. As Earth spins us toward this season of renewal, the Kronos Quartet's captivating program is an aural and visual meditation of a deep — and changing — connection to nature in Chinese culture. From sky to land to a single home, pipa virtuoso Wu Man anchors stories about life and traditions that are classic Kronos.

Glee Club Spring Concert

Department of Music

8 p.m., Friday, March 31; \$6

Leighton Concert Hall

The Glee Club presents its Spring 2017 concert. Family friendly, all ages are welcome.

Chorale Spring Concert

Department of Music

8 p.m., Saturday, April 1; \$6

Leighton Concert Hall

Music for chorus and Baroque orchestra, featuring J. S. Bach's Cantata BWV 10, George Frideric Handel's coronation anthem Zadok the Priest, Igor Stravinsky's Mass for chorus and winds, and Stefan Girardet's Ergo vis vivida animi (world premiere).

Solera Quartet

Presenting Series

2 p.m., Sunday, April 2; \$18

Leighton Concert Hall

Join the popular Solera Quartet for this special program which will feature Beethoven's sublime String Quartet in a minor, op. 132. The heart of this profound work is the third movement, titled "Heiliger Dankgesang eines Genesenen an die Gottheit, in der lydischen Tonart" or "Song of Thanksgiving to God for recovery from an illness, in the Lydian mode." Beethoven wrote this deeply personal work towards the end of his life, after a long period of ill health. It is an emotionally spiritual work, full of longing, gratitude, and contemplative attempts to converse with God and the afterlife.

Hernán Reinaudo Tango Concert

Department of Romance Languages and Literatures

8 p.m., Wednesday, April 5; free

Decio Theatre

Hernán Reinaudo, one of Argentina's most outstanding new-tango musicians, will offer a concert-lecture, an intelligently articulated combination of music and reflections on the recent developments of tango. This is a free but ticketed event. Co-sponsored by the Kellogg Institute for International Studies and the Office of Undergraduate Studies.

Nathan Gunn and Julie Gunn

Presenting Series

2 p.m., Sunday, April 9; \$25

Leighton Concert Hall

Nathan Gunn has made a reputation as one of the most exciting and in-demand baritones of the day. He has appeared in internationally renowned opera houses such as the Metropolitan Opera, San Francisco Opera, Lyric Opera of Chicago, Royal Opera House, Paris Opera and Teatro Real in Madrid. Accompanied by Julie Gunn. 2017 Grammy nominee for Best Opera Recording!

Bach's Lunch

Department of Music

12:10 p.m., Friday, April 21

Penote Performer's Hall

Enjoy a free noontime concert with performances from the Department of Music performance majors.

CINEMA

Raining Stones (1993)

Classics at the Browning

8 p.m., Wednesday, March 29

Desperate to find the money to pay for his daughter's First Holy Communion dress, an out-of-work Brit takes on a series of odd jobs. Short of the cash he needs, he turns to a local loan shark and puts his entire family at risk. Two-time Palme d'Or winner Ken Loach has built a remarkable body of work shedding much needed light on the plight of the working class. "Raining Stones" is a highlight of post-Thatcher economic struggle. Sponsored by the Meg and John P. Brogan Endowment for Classic Cinema.

Close-up (1990)

Classics at the Browning

8 p.m., Wednesday, April 5

Internationally revered Iranian filmmaker Abbas Kiarostami has created some of the most inventive and transcendent cinema of the past 30 years, and "Close-up" is his most radical, brilliant work. This fiction-documentary hybrid uses a sensational real-life event — the arrest of a young man on charges that he fraudulently impersonated the well-known filmmaker Mohsen Makhmalbaf — as the basis for a stunning, multilayered investigation into movies, identity, artistic creation and existence, in which the real people from the case play themselves. With its universal themes and fascinating narrative knots, "Close-up" has resonated with viewers around the world. Sponsored by the Meg and John P. Brogan Endowment for Classic Cinema.

Rebels of the Neon God (1992/2014)

Classics at the Browning

8 p.m., Wednesday, April 12

Hsiao-kang becomes obsessed with young petty thief Ah-tze, after Ah-tze smashes the rearview mirror of a taxi driven by Hsiao-kang's father. Hsiao-kang stalks Ah-tze and his buddy Ah-ping as they hang out in the film's iconic arcade (featuring a telling poster of James Dean on the wall) and other locales around Taipei, and ultimately takes his revenge. One of the key figures of the Taiwanese New Wave, Tsai Ming-liang emerged on the world cinema scene in 1992 with this groundbreaking first feature that hints at his promise. Sponsored by the Meg and John P. Brogan Endowment for Classic Cinema.

A Brighter Summer Day (1991)

Classics at the Browning

7 p.m., Thursday, April 13

Among the most praised and sought-after titles in all contemporary film, this singular masterpiece of Taiwanese cinema, directed by Edward Yang is finally available for U.S. audiences. Set in the early '60s in Taiwan, "A Brighter Summer Day" is based on the true story of a crime that rocked the nation. A film of both sprawling scope and tender intimacy, this novelistic, patiently observed epic centers on the gradual, inexorable fall of a young teenager (Chen Chang, in his first role) from innocence to juvenile delinquency, and is set against a simmering backdrop of restless youth, rock and roll and political turmoil. Sponsored by the Meg and John P. Brogan Endowment for Classic Cinema.

Sweetie (1989)

Classics at the Browning

8 p.m., Wednesday, April 19

Though she went on to create a string of brilliant films including The Piano and the recent miniseries, Top of the Lake, Jane Campion will always be remembered for her stunning debut feature, Sweetie, which focuses on the hazardous relationship between

the buttoned-down, superstitious Kay and her rampaging, devil-may-care sister, Sweetie—and on their family's profoundly rotten roots. A feast of colorful photography and captivating, idiosyncratic characters, the tough and tender Sweetie heralded the emergence of this gifted director, as well as a renaissance of Australian cinema, which would take the film world by storm in the '90s. Sponsored by the Meg and John P. Brogan Endowment for Classic Cinema.

ALSO AT THE BROWNING

Idomeneo

Met Opera: Live in HD

1 p.m., Saturday, March 25; \$23

260 minutes (2 intermissions), Live Broadcast

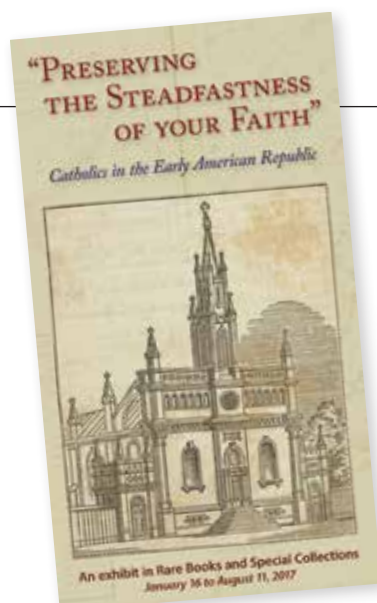
James Levine conducts a rare Met revival of Mozart's Idomeneo, set in the aftermath of the Trojan War. Jean-Pierre Ponnelle's classic production, which has its first Met revival in over a decade this season, stars Matthew Polenzani in the title role. The cast also includes Elza van den Heever as Elettra, Nadine Sierra as Ilia, Alice Coote as Idamante and Alan Opie as Arbace.

Twelfth Night (2017)

National Theatre Live

7 p.m., Thursday, April 6; \$18

Tamsin Greig is Malvolia in a new twist on Shakespeare's classic comedy of mistaken identity. A ship is wrecked on the rocks. Viola is washed ashore but her twin brother Sebastian is lost. Determined to survive on her own, she steps out to explore a new land. So begins a whirlwind of mistaken identity and unrequited love. The nearby households of Olivia and Orsino are overrun with passion. Even Olivia's upright housekeeper Malvolia is swept up in the madness. Where music is the food of love, and nobody is quite what they seem, anything proves possible. Sponsored by the Brady Endowment for Excellence for Live Theatre Broadcasts.



RARE BOOKS & SPECIAL COLLECTIONS:

"Preserving the Steadfastness of Your Faith":

Catholics in the Early American Republic

On exhibit through August 11, 2017

An exhibition in Rare Books & Special Collections, 102 Hesburgh Library, displays examples of American Catholicism expressed through printed texts dating from 1783 through the early 1840s. The exhibition is open Monday to Friday 9 a.m. to 5 p.m. Curators Rachel Bohlmann and Jean McManus will offer tours on Thursdays, March 23 and 30 at 12:30 p.m.

Tickets for Browning Cinema movies are \$6 for faculty/staff, \$5 for those 65 and up, and free for Notre Dame students, unless otherwise noted on the website. Visit performingarts.nd.edu for more information or to purchase tickets, or call the Ticket Office at 631-2800.

Spotlight



Theatre

Visions of heaven, earth and hell

Medieval mystery plays with steampunk style

“Christ’s Passion: Medieval Mystery Plays,” adapted by Mark Pilkinton, professor emeritus, was first staged by the Department of Film, Television and Theatre (FTT) in Washington Hall in 1996.

Directed by current FTT Professor Anton Juan, “Christ’s Passion” will be staged in the DeBartolo Performing Arts Center’s Philbin Studio (black box) Theatre in performances April 5-12.

“Christ’s Passion” is a biblical journey from creation to doomsday, including the fall of Lucifer, the Garden of Eden and Noah’s flood, as well as the nativity, crucifixion and resurrection of Christ.

This new production, presented as a prelude to Easter, features music, dance and a carnival atmosphere. The main set piece is a pageant wagon, and costumes will have a steampunk/post-apocalyptic look.

Christ’s Passion: Medieval Mystery Plays
 7:30 p.m. Wednesday through Saturday, April 5-8
 2:30 p.m. Sunday, April 9
 7:30 p.m. Tuesday and Wednesday, April 11-12
 Philbin Studio Theatre; \$12



AT THE SNITE MUSEUM OF ART

2017 BFA/MFA Candidates Thesis Exhibition

April 7 through May 21, 2017

O’Shaughnessy Galleries and Milly and Fritz Kaeser Mestrovic Studio Gallery

The annual exhibition comprising the culminating thesis projects created by the students graduating with either a BFA or MFA degree from the Department of Art, Art History & Design.

Lynette McCarthy, Afternoon Reverie, 2017.

Robinson Shakespeare Company invited to perform in England

“Within this hour it will be dinner-time; Till that, I’ll view the manners of the town, Peruse the traders, gaze upon the buildings, And then return and sleep within mine inn; For with long travel I am stiff and weary.”

— From William Shakespeare’s *“The Comedy of Errors”*

Trip coincides with 400th anniversary Shakespeare celebrations

BY SUE LISTER, MEDIA RELATIONS

Seventeen local youth Shakespeare performers will make a memorable “long travel” of their own this summer when they fly to England to perform at the Shakespeare Birthplace Trust’s New Place in Stratford-upon-Avon.

The students are members of the University’s Robinson Shakespeare Company (RSC) at the Robinson Community Learning Center (RCLC) and have been invited to perform during the historic 400th anniversary celebration of the playwright’s life. In Stratford and London from July 26 through Aug. 3, the RSC will perform Shakespeare’s *“Cymbeline.”*

The invitation came after the troupe garnered global attention in Shakespeare circles from attendees of the annual Shakespeare Theatre Association conference at Notre Dame last summer.

“At the Shakespeare Theatre Association conference, our students gave a workshop on the benefits of working as an

ensemble to a room of Shakespeare experts from around the world,” explained RCLC manager **Jennifer Knapp Beudert**. “One of the attendees, Mya Gosling from *Good Tickle Brain* and *3 Panel Plays*, later wrote, ‘The highlight of the conference for me was meeting members of the Robinson Shakespeare Company. If this is the next generation of Shakespeare practitioners, all I can say is that Shakespeare is in good hands.’ From that endorsement, the Shakespeare Birthplace Trust contacted us to perform at New Place, and we are humbled and thrilled to receive the invitation.”

Members of the troupe who have been chosen for the trip are Cameron Pierce, Zion Williams, Sha’Nia Clay, Forest Wallace, Precious Parker, Savannah Dawson, Monica Caponigro, Ellie Graff, Christian Jackson, Kennedy Bridges, Lizzie Graff, Joshua Crudup, Andrew McDonald, Candace Lebron Williams, Paul Ferguson and Ophelia Emmons, who recently placed second in a statewide Shakespeare monologue competition in Indianapolis.

While in England, the RSC will also take classes offered through the Shakespeare Birthplace Trust and the

Royal Shakespeare Company with leading Shakespeare directors, scholars and actors. The group will also have exposure to some of the bard’s archive material and will tour Shakespeare’s Globe Theatre.

The RSC will be one of the first youth groups to perform at New Place in its inaugural year since re-opening in August 2016. New Place was Shakespeare’s residence, and while his house no longer exists on the grounds, the land is owned and maintained by the Shakespeare Birthplace Trust, an independent charity that cares for Shakespeare heritage sites in Stratford-upon-Avon.

“I think the magnitude of this experience is starting to dawn on them,” said **Christy Burgess**, Robinson Shakespeare Company outreach director. “Many of our students have never been on an airplane before, and now they will get to experience Shakespeare’s life and work in his sacred places. Our students come from diverse backgrounds, but Shakespeare is a great equalizer and what bonds them.”

The troupe also will experience a taste of college study-abroad life; they will stay in Conway Hall, a residence hall of the University’s London Global Gateway that houses undergraduates

during study abroad semesters. Notre Dame International is helping the group prepare for their trip, and the Gateway staff will take the group around London during their time there.

Before the trip, the RSC students are not only rehearsing for the play, but also are preparing for the cultural differences they will encounter at “England boot camps,” where they are learning about international differences such as cars driving on the opposite side of the road, British pounds and shillings, the local lingo and more.

Notre Dame first-year writing students are also helping the students prepare for the trip by coaching them in blog writing techniques so that family and friends can follow their journey from afar.

The total cost of the trip is approximately \$40,000 and the Company is seeking donations to help with fundraising. While families are each partially contributing to the travel cost, the overall experience is no small financial undertaking, according to Knapp Beudert. Fundraisers are planned for the months ahead and donations are being accepted online at rclc.nd.edu.



PHOTO COURTESY OF KAITY FUJIA, OMEG PHOTOGRAPHY.