

Design Thinking

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ANN-MARIE CONRADO
Assistant Professor
Art, Art History & Design

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NEWS BRIEFS

WHAT'S GOING ON

NOTRE DAME POST OFFICE PASSPORT FAIR

Don't have a valid passport? The Notre Dame Post Office, located in Hammes Mowbray Hall, is holding a Passport Fair on Saturday, April 30, from 9:30 a.m. to noon. Bring a photo ID and either a certified copy of your birth certificate or proof of citizenship.

An adult passport book is \$110, children's \$80; the processing fee for either is \$25. A passport card is also available for travel to Canada and Mexico only. An adult card is \$30, \$15 for a child, with a \$25 processing fee for either. Passport photos are \$15. Minors 16 and under must be accompanied by both parents. You will receive your passport in four to six weeks.

For information, contact Postmaster **Ellen L. Bystrom** at ellen.l.bystrom@usps.gov or 631-0269. Application forms and a list of documents can be found at the U.S. Department of State website, travel.state.gov. Additional information is also available at usps.com/international/passports.htm.

PEOPLE

UNITED WAY NAMES VOLUNTEER OF THE YEAR

Jessica M. Brookshire, associate director for public affairs, has been honored with United Way of St. Joseph County's 2016 Volunteer of the Year Award.

For more than 17 years, Brookshire has been the engine behind United Way of St. Joseph County's (UWSJC) top workplace campaign — the University of Notre Dame's.

"Jessica's passion for United Way's work is demonstrated by her involvement in special projects, fundraising, events and committee membership," said Matt Harrington, president and CEO of UWSJC. "We are so grateful for her commitment to our community and her selfless support of United Way's mission, which is truly inspiring."

MCCREA WINS BOOK PRIZE

Barry McCrea, the Donald R. Keough Family Professor of Irish Studies and professor of English, Irish language and literature and



Romance languages and literatures, has been awarded the René Wellek Prize by the American Comparative Literature Association for the best book



Brookshire



McCrea



Narvaez



Richter



Nolan Young

in the past year in comparative literature.

McCrea's "Languages of the Night: Minor Languages and the Literary Imagination in Twentieth-Century Ireland and Europe" (Yale University Press, 2015) explores how the decline of rural languages and dialects in 20th-century Europe shaped ideas about language and literature and exerted a powerful influence on literary modernism.

KISTLER NAMED DIRECTOR OF NON-DEGREE PROGRAMS AT STAYER CENTER

The Mendoza College of Business has named **Robin D. Kistler** as the director of non-degree programs at the Stayer Center for Executive Education. Kistler will be responsible for the administration, strategy and promotion of the Stayer Center's open enrollment, online and custom certificate offerings.

Kistler previously served as director of executive education at Louisiana State University's E.J. Ourso College of Business from 2008 to present, leading non-degree professional development training in business acumen and leadership development.

PSYCHOLOGIST NAMED FELLOW OF AMERICAN EDUCATIONAL RESEARCH ASSOCIATION

Darcia Narvaez, professor of psychology, has been named a fellow of the American Educational Research Association, an honor bestowed on academics with notable and sustained research achievements. Narvaez was one of 22 scholars inducted as fellows at the AERA's annual meeting in Washington, D.C., on April 9.

Narvaez, who joined the Department of Psychology in 2000, has published numerous books and articles on moral cognition, moral development and moral character. She is a co-director of the interdisciplinary Self, Motivation and Virtue project and the Developing Virtues in the Practice of Science initiative. She is executive editor of the Journal of Moral Education and writes the popular Moral Landscapes blog for Psychology Today.

Her latest book, "Neurobiology and the Development of Human Morality: Evolution, Culture and Wisdom," won the 2015 William James Book Award from the American Psychological Association. The

honor recognizes a work that brings together diverse subfields of psychology and related disciplines and demonstrates an essential underlying set of themes that serve to unify or integrate the field.

RICHTER RECEIVES YOUNG INVESTIGATOR PROGRAM GRANT

David H. Richter, assistant professor of civil and environmental engineering and earth sciences, is among the 47 engineers and scientists who will be awarded grants as part of the 2016 Young Investigator Program (YIP) of the Office of Naval Research. This award supports junior faculty whose exceptionally creative research holds promise across a range of naval-relevant science and technology areas, from robotics to solar cells.

Honorees, who represent 34 academic institutions, were selected from 280 applicants based on performance, technical merit and potential scientific breakthrough in areas including active flow control, biofilms, combustion, corrosion, foodborne diseases, metamaterials, ocean-atmospheric interaction and structural dynamics.

Richter's work focuses on devel-

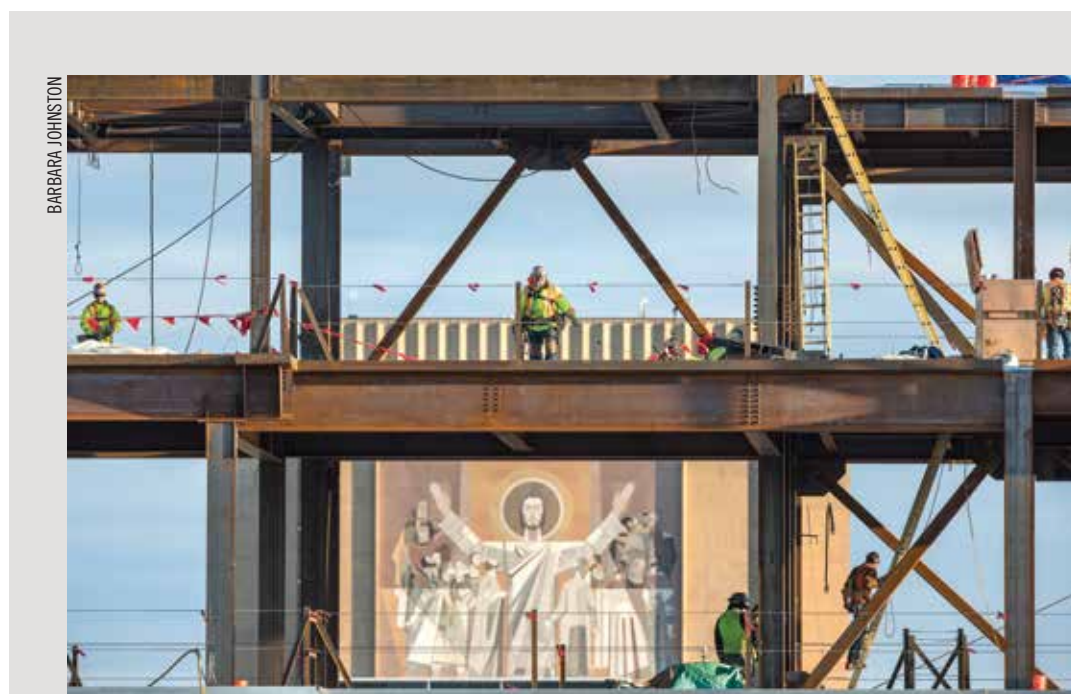
oping computational techniques and simulations to better understand the turbulence in the marine atmospheric boundary layer (MABL) — where the sky meets the sea — as well as the complex ways in which the air and sea interact and feed off one another.

NOLAN YOUNG NAMED DIRECTOR FOR ACADEMIC DIVERSITY AND INCLUSION

Pamela Nolan Young has been appointed to the newly created role of director for academic diversity and inclusion. Young, who received her juris doctor degree from the Notre Dame Law School, brings more than 25 years of experience to the University in the areas of diversity and inclusion, equal opportunity, education and law.

As a member of the University's Provost Office staff, Young will coordinate the academy's diversity and inclusion efforts, with an eye toward enhancing Notre Dame's faculty climate.

Her work will focus on expanding the University's diversity and inclusion training for faculty and integrating such training into new faculty orientation. She will also provide leadership to colleges and departments on implementation of diversity and inclusion initiatives, and she will facilitate recruiting efforts for under-represented populations into faculty, postdoctoral and graduate student positions.



CAMPUS CROSSROADS CONSTRUCTION

Construction crews at the Campus Crossroads Project have a bird's eye view of the Word of Life mural. The south building, above, will house a state-of-the-art facility for the Department of Music and Sacred Music program.

The normally busy project worksite will halt construction temporarily for Notre Dame's 171st University Commencement Ceremony on May 15. Guests should arrive early and prepare to wait to clear security checkpoints before entering the venue. Presents, balloons, tote bags, tripods and umbrellas will not be permitted inside the stadium. For complete University Commencement details, including a list of prohibited items, visit commencement.nd.edu.

CAMPUS NEWS

EXCHANGE PROGRAM WITH KYOTO UNIVERSITY ESTABLISHED

The Department of Chemistry and Biochemistry and Kyoto University's Institute for Chemical Research will soon be exchanging faculty, staff, students and ideas, building on a partnership started by Notre Dame International.

Ken Henderson, chair of the Department of Chemistry and Biochemistry, says an official memorandum of understanding between his department and Kyoto's institute lays out a template for collaboration. In addition to enabling student and faculty visits, the agreement lays the groundwork for growing research partnerships and the development of joint conferences and workshops. It is the type of interaction envisioned when Notre Dame International and Kyoto University initiated the institutional partnership two years ago.

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 12 times per year. 2016-2017 publication dates are May 19, June 23, July 21, Aug. 18, Sept. 22, Oct. 27, Dec. 8, Jan. 5, Jan. 26, Feb. 23, March 23, April 20 and May 18.

Notre Dame participates in Earth Hour for ninth year

BY DANA BAKIRTJY, SUSTAINABILITY

On Saturday, March 19 from 8:30 to 9:30 p.m., Notre Dame participated in Earth Hour by turning off the lights on the Golden Dome of the Main Building and the “Word of Life” mural on Hesburgh Library for one hour. An international symbol of support for climate change action, this year marked the 10th anniversary of Earth Hour, and the ninth year Notre Dame has participated.

The single-largest symbolic mass participation event in the world, participants included the Empire State Building, the Great Pyramids of Giza, the Parthenon and St. Peter’s Basilica at the Vatican. To celebrate

this year’s Earth Hour, the Office of Sustainability hosted a lights-out event with students as a part of the annual Megawatt Madness energy reduction competition. The Echoes, a Notre Dame a cappella group, gave a performance in front of the Main Building that was attended by students, staff and faculty.

“Notre Dame’s participation in this global event for the past nine years exemplifies our strong commitment to sustainability,” says **Linda Kurtos**, director of Sustainability.

For details about activities taking place on Earth Day (April 22), visit green.nd.edu.



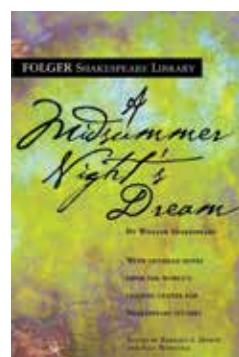
The lights at the Main Building go out for Earth Hour.

‘The course of true love never did run smooth’

Events celebrate work, life of Shakespeare

BY CAROL C. BRADLEY, NDWORKS

This year’s One Book, One Michiana, sponsored by the St. Joseph County Public Library, revisits Shakespeare’s classic “A Midsummer Night’s Dream.” The Main Library and branches have copies of the book in several formats, and an array of programs and book discussions leading up to a Shakespeare Faire in Leeper Park from 11:30 a.m. to 4:30 p.m. Saturday, April 30. For information and a full list of programs, visit sjcpl.lib.in.us/one-book.



Birthday Party for William Shakespeare
“Some glory in their birth.”

At 4:16 p.m. Tuesday, April 26, the Hesburgh Library’s Center for Digital Scholarship celebrates Shakespeare’s birthday and the conclusion of the

University’s online Sonnet Fest with cake and Shakespearean frivolities. Enjoy highlights of Sonnet Fest 2016 while exchanging Shakespearean insults and building the Globe Theatre with a 3-D printed model.

Book Discussion: “A Midsummer Night’s Dream”

From 6:30 to 8:30 p.m. Tuesday, April 26, Holy Cross Village welcomes readers to discuss “A Midsummer Night’s Dream” at Andre Place. Refreshments will be served; registration is required. For more information, call 282-4645. Andre Place at Holy Cross Village, is located at 54515 Indiana 933, South Bend.

Ladies of Notre Dame and Saint Mary’s invites new members

BY DAR CUTRONA, NDWORKS

The Ladies of Notre Dame and Saint Mary’s College is a nonprofit organization that was founded in 1934 to “promote the education, social and cultural welfare of its members.”

Any woman with a connection to Notre Dame or Saint Mary’s College — except undergraduate students — is eligible for membership. The group’s 233 members come from numerous cultures, speak different languages and are of varying ages, but share the common goal of building community at Notre Dame and Saint Mary’s by way of friendship with those new to the area.

Current president Ravini Fernando joined the nonprofit six years ago when she moved here from Arizona with her husband, Harindra Joseph Fernando, the Wayne and Diana Murdy Family Professor of Civil and Environmental Engineering and Earth Sciences at Notre Dame.

“It’s a wonderful way to meet people,” she says of the group. When one of her sons got married last summer, her friends from LND/SMC helped her shop for a dress and then celebrated the occasion with her. “I consider them

sisters,” she says.

Dues-paying members can participate in the organization’s annual events and those offered by interest groups. Activities follow the academic calendar and include an opening reception, Christmas tea and spring tea. Interest groups encourage reading, exercise and travel as well as organized play dates for moms and their young children.

A guest speaker series was introduced this year, with Paqui Kelly selected as the inaugural speaker. Other talks highlighted the service of St. Margaret’s House, a family’s pilgrimage to Santiago de Compostela and some experiences living in a women’s residence hall as a rector.

The group annually awards scholarships to local women attending Notre Dame and Saint Mary’s College. This year four students received scholarships. The scholarship funds are raised through private donations and the sale of remembrance cards.

More information about the Ladies of Notre Dame and Saint Mary’s is available at Indsmc.org or by attending the spring tea at the Morris Inn on Sunday, April 24.



Help Us Celebrate

Mothers

Mother’s Honor and Remembrance Day
Wednesday, April 27; 2-6 p.m.*
Fieldhouse Mall (North of LaFortune)

*In case of rain, the event will be held April 28 at the same location and time.

The Notre Dame Alumni Association invites you to stop by and celebrate the mothers in your life. Add a special intention to our Mother’s Honor and Remembrance Prayer Wall. Pose for fun pictures in our photo booth with signs that help you express your love and gratitude, and then share them on social media. Enjoy free ice cream and play some games. Students can send out special ND Mother’s Day cards. To explore all the ways the Alumni Association is honoring mothers this year, please visit mothersday.nd.edu after it launches on May 1.



How do we integrate learning with life?



Anthropologist encourages more hands-on, real-world experiences

BY GENE STOWE, FOR NDWORKS

Susan Blum was trying hard to convince her own students — and her frustrated school-age daughter — of the benefits of modern education. It wasn't working. So Blum, an anthropology professor who came to Notre Dame in 2000, joined her professional expertise with her personal experience to explore why so many people chafe at the classroom and curriculum.

The result is "I Love Learning; I Hate School: An Anthropology of College," published recently by Cornell University Press.

"I loved school," Blum explains. "I didn't understand why students didn't like school. I figured if I could just somehow persuade them that this is for your own good, this is fascinating, this is important — if I could convince them of that, they would somehow love school. It turns out it didn't work that way for a lot of people."

Anthropology offers some insights into the mismatch between how people learn in general and how the modern industrial-model educational



Blum

system tries to teach them.

"Human beings are natural learners," Blum says. "We have evolved to learn. We have to learn how to live our lives because we don't have enough instincts to guide us. Human society is dependent on learning that is transmitted from one generation to another. In most societies for most of human history, this has been done pretty effortlessly by being integrated with people in their society."

The vital lessons about such things as food, sex, worship and technical know-how came through observation, trial and error and occasional direction — with immediate and sometimes fatal consequences for failure to learn. By contrast, the value of algebra seems remote.

"With school, what we're saying to

students is, 'You have to learn this,'" she says. "You don't know why, but we're telling you, you need to do this."

In that environment, the obvious answer to "why learn?" can become: grades. "The motivation becomes extrinsic entirely," says Blum, whose earlier book, "My Word! Plagiarism and College Culture" (Cornell 2009), dealt with the problem of plagiarism, possibly exacerbated by the implied incentive of high grades, good college and high-paying job.

"Each of these steps is so remote from anything meaningful for life, the only use many students can see for it is to get the grade," she says. "I call that 'the game of school.' It might as well be a board game — how many points can I get? It's not about learning anything beautiful or fascinating."

"You're being trained to learn something not for its intrinsic merit but because somebody will reward you for it. If somebody has to reward you for it, obviously you're doing it for them, not for yourself. Education has to be for the learner.

run clubs or they do sports or they coach younger kids or they're in band or they write music. In the classroom ... it seems to be tragically wasteful to have all this ability submerged so they can passively say, 'OK, tell me what to do.' The system creates that."

Alternatives to such a system — which likely contributes to cheating, depression and suicide among college students — are difficult to identify. Experiential learning, such as internships and service, embed students in society, but even that risks the extrinsic motive of resumé-padding.

"I don't have an easy answer," Blum says. "I don't think everybody should follow the same curriculum. I would like to see a lot more hands-on learning, a lot more integration into the world outside of school where students

see what they're learning has consequences in the world.

"You have to begin with curiosity and a thirst for learning. Our schools are not set up that way at all. The challenge is to reintegrate learning with life."

In an interview with John Warner in *Inside Higher Ed*

(insidehighered.com) in late March, Blum was asked, if she had a magic lamp and a genie granted her three wishes, what she would change about education. Here is her answer:

"My first wish is that education would take place in the context of the actual world in which it will be used, rather than isolated from any need or application. Not deferred until someday, and not a game of school. Not even age-graded; this narrow age-grading of industrial schools impoverishes the amount of peer learning that is enabled in most societies where children learn from "near-peers." Of course at community colleges and some universities this is less the case.

The second is that students would not enter universities and colleges straight from high school. (High schools are really problematic too, but this is *Inside Higher Ed*...)

The conflation of growing up and academic learning makes both more problematic. It would make sense to have students set off and learn to be on their own, and then if they needed it, or wanted it, they could enroll in an academic institution. Many would find other ways of learning that they want or need, perhaps in training programs.

The third is that there would be no grades. In that way, the measure of success would have to come from elsewhere — from application, satisfaction, from how well the learning actually works. As another of my touchstones, Frank Smith, says in his wonderful "The Book of Learning and Forgetting," most learning — aside from in school — is continuous, effortless, independent of rewards and punishments, and never forgotten. It is only in schools that learning becomes so difficult, dependent on rewards and punishments, and easily forgotten.

The changes can't be done one at a time, because they are interconnected, and it would take real political and social will to challenge the dominant model of schooling that we have all naturalized. But there are so many experiments being done in so many different domains, that it seems clear we are ripe for a genuine revolution in learning. In that sense, perhaps students can celebrate their love of learning, which is, after all, part of the human endowment."

Blum's book, "I Love Learning; I Hate School: An Anthropology of College," is available at www.cornell.edu/pressbooks/.



Transcripts, diplomas now available online

Same-day service, protection against identity theft

BY GENE STOWE, FOR NDWORKS

A collaboration between the Office of the Registrar and the Alumni Association has heightened security and accelerated delivery of student transcripts and diplomas. The process, with applicants authenticated through Alumni's myNotreDame portal to guard against identity theft, provides same-day service for electronic transcripts.

"For decades, alumni could only order transcripts by completing a paper form on our website," says Registrar **Chuck Hurley** ('93, '01,

'07). "It was not the most elegant solution. We were really interested in trying to collaboratively construct a secure application with our friends over at the Alumni Association and increasing services to alumni."

The transcript service came online in late 2013. Once the system was in place, the process for requesting diplomas was implemented last fall. Both systems automatically fill out the request form with most of the person's information. For diplomas, the applicant can choose sheepskin (for



Hurley

graduates up to 2011) or paper, delivered by Federal Express.

"By collaborating on transcripts, that laid the foundation for integrating the Registrar system with the myNotreDame portal," Hurley says. "All the pipes were essentially there. We just had to hook them up, so to speak. We do not receive that many diploma requests in comparison to transcripts."

The office processes a few hundred diploma requests a year compared to some 50,000 transcript requests — about half from seniors

applying to jobs or graduate schools, half from alumni who are changing jobs, returning to school or fulfilling requirements for visas, background checks and other processes that involve such documentation.

"Most people want the transcript sent from the registrar's office to the receiver directly — to the grad school, to the law school, to the employers, to the person requesting the background check," Hurley says. "They want to remove the opportunity for potentially tampering with the transcript. We have a secure electronic PDF transcript that we send to those recipients directly. In the majority of instances, electronic delivery and receipt have become the

expectation for alumni, and we are pleased to provide such a service."

Hurley initiated the move to a new transcript request process in 2012, partnering with **Mark Welch** ('04), Alumni's director of information technology. Assistant Registrar **Paul Ullrich** ('08), App Integration Architect **Brandon Rich**, Alumni Association Interactive Specialist **Paul Weikel** and Senior Associate Registrar **Amika Micou** helped establish it. Commencement and Records Specialist **Amy Jennings** ('95) helped add the diploma service.

Innovative approaches to solving real-world problems

Using design to do good in the world

BY CAROL C. BRADLEY, NDWORKS

Imagine you've got one arm tied behind your back to help understand what the daily life of an amputee feels like. How would you squeeze toothpaste out of a tube to brush your teeth?

Assistant Professor of Design **Ann-Marie Conrado's** first- and second-year course Design Matters, a gateway course to the Department of Art, Art History & Design's new Collaborative Innovation Minor, considers questions such as this and looks for solutions.

"It's an empathic, human-centered approach," says Conrado. "How do we open our students to the potential to make the world a better place?"

Design Matters is divided into three primary areas of focus: insight, ideation and implementation.

During the insight stage, students work to identify and understand a problem by researching users, their needs and the context, developing empathy along the way. In the second stage, they generate ideas and rigorously evaluate each one. The last stage is implementation — how can the idea for a product, invention or service be brought to life?

In previous semesters, students in the course have collaborated with various commercial organizations and social entities in the U.S. and abroad.

Conrado, born in Las Vegas, is a 1993 BFA graduate of Notre Dame. After working as a product designer ("burned out and working really long hours") she decided to spend a year traveling the world and fell in love with Nepal. "It struck me as a unique and welcoming place. I volunteered there for another six months. Learned the language. Started a charity."

Her charity, Hope for Nepal (hopefornepal.org), is an international nonprofit working to utilize design thinking to address humanitarian concerns in developing countries.

In addition to scholarships for education in Nepal, the

BARBARA JOHNSTON



Conrado

group established HOPE House, a home for orphaned children in Kathmandu, and the Design for Fair Trade Initiative, which teaches crafts for the creation of fair trade products — both for sales and to continue the country's crafts heritage. Nepalese handicrafts are sold on campus every year at Badin Hall's Conscious Christmas event.

Since a magnitude 7.9 earthquake devastated Nepal on April 25, 2015, the focus has been on rebuilding efforts — one Notre Dame MFA student, she notes, traveled to Nepal with a template for a shelter that utilizes local materials and is designed to be carried by a single person.

"We don't need a new shelter design. You can't transport them. When students arrived on the ground two months after the earthquakes, people were still living under tarps tied to trees. What they needed was knowledge. But why not educate local people in the problem solving inherent in design thinking? Isn't it time we taught them how to fish instead?"



ANN-MARIE CONTRADO

ANN-MARIE CONTRADO



A student works on a design project.

Collaborative Innovation Minor aims to change the world

The Minor in Collaborative Innovation, will launch in fall 2016, offers students an opportunity to engage in process-based, cross-disciplinary learning across University departments.

Students begin with an introductory course, Design Matters, which uses lecture- and case study-based learning followed by hands-on exercises and team projects.

Declared minors then take an additional four courses introducing them to skills in areas including research methods, visualization and entrepreneurship.

The program culminates in a fifth capstone course, Collaborative Product Development, which brings the students together with design majors. Working in teams with corporate partners, students have the chance to solve a variety of real-world problems.

2016 BFA/MFA THESIS EXHIBITION



PHOTOS: MICHAEL RIPPY



The 2016 BFA/MFA Candidates Thesis Exhibition continues through Sunday, May 15, in the Snite Museum of Art's O'Shaughnessy Galleries. The exhibition is comprised of the culminating thesis projects created by students graduating with a BFA or MFA degree from the Department of Art, Art History & Design. Above, Kevin Phaup presents his design for a shelter construction template to provide housing after natural disasters.

Hesburgh Libraries: Preserving the m

As new formats develop, preservation will continue to change

Grant allowed review and assessment of challenges

BY TARA O'LEARY,
HESBURGH LIBRARIES

In keeping with the University's commitment to advance research and scholarship, the Hesburgh Libraries acquires, stewards and maintains distinguished rare and unique collections to support world-class research and academic programs.

These efforts, combined with the University's growing commitment to sustainability, inspired **Julie Arnott**, then head of preservation, and **Liz Dube**, conservator, to seek grant funding for a thorough assessment of environmental storage conditions within Rare Books and Special Collections (RBSC).

In 2014, the Hesburgh Libraries were awarded an assessment grant from the National Endowment for Humanities' Sustaining Cultural Heritage Collections program, which "helps cultural institutions meet the complex challenge of preserving large and diverse holdings of humanities materials for future generations by supporting sustainable conservation measures that mitigate deterioration and prolong the useful life of collections."

The University's Rare Books and Special Collections houses more than 175,000 volumes and about 6,000 linear feet of manuscripts, maps, posters, ephemera, and other unusual formats. These holdings provide students, faculty, visiting researchers and the public access to rare and unique materials.

These materials offer a multitude of perspectives that encourage users to contemplate and critically evaluate

evidence, challenge preconceptions and enhance their understanding of and appreciation for the past. Premier collections provide primary research materials for areas such as Catholic studies, Irish studies, Italian studies, medieval studies and sports research.

The two-year grant, which wraps up in June, has thus far enabled the University to partner with specialized consultants from the Image Permanence Institute (IPI) to perform a painstaking assessment of RBSC storage conditions, to comprehensively analyze the mechanical systems serving these collection spaces and to identify and enact low-cost but high-impact modifications.

IPI consultants have visited campus two times, with a final visit scheduled for April, each time meeting with a broad-based Notre Dame team that includes library staff responsible for preservation, special collections and facilities; architects and utilities staff from campus Facilities Design and Operations; and the director of the Office of Sustainability.

"Managing collection storage and display environments for long-term preservation requires knowledge of the effects of temperature and relative humidity on diverse collection materials, an understanding of the complex mechanical systems that serve collection spaces, and the ability to develop customized strategies to improve collection longevity while maximizing energy efficiency," says Arnott.

Dube adds, "The ability to convene a team with broad-based expertise from across campus, with expert facilitation from IPI, has enabled tremendous progress on our ability to understand the issues



Liz Dube, at left, with technician Marsha Meuleman, who has been working on cleaning, mending, flattening and encapsulating in mylar a collection of lithographed wrestling posters from the Jack Pfefer Wrestling Collection. "I've done almost 100 of them," Meuleman says. "The goal is to preserve and stabilize them for digitization and careful reading room use."

and identify strategic means of sustainably enhancing the life of the Libraries' most unique and valuable collections."

Over the course of the grant, the team has gathered extensive data about collection storage conditions and taken action to attempt to mitigate some of the most significant concerns. Most notably, additional ductwork is being supplied in order to enhance air circulation in RBSC in an effort to improve storage conditions.

During its final meeting, the project team will review the full 20 months of compiled data, including a preliminary assessment of the impact of recent mechanical

system upgrades. The team will then discuss remaining challenges and begin to articulate next steps toward sustainable preservation of collections.

At the conclusion of the grant period, IPI will identify successes and challenges, and provide a prioritized listing of strategic opportunities for the future. Looking forward, the Libraries may develop a follow-up request to National Endowment for Humanities for matching implementation grant funding through its Sustaining Cultural Heritage Collections Program in order to advance these critical preservation and sustainability goals.

One thing is certain: As new

knowledge formats continue to rapidly emerge, the work of preservation will continue to flex with the changing times. Regardless of material format or treatment approach, the goal of preservation and conservation is to support the Libraries' mission of "connecting people to knowledge" by ensuring meaningful access to library resources. This project paves the way for the Libraries to approach future preservation solutions in an environmentally sustainable way.

To learn more about these collections and RBSC's other holdings, visit 102 Hesburgh Library or online at rarebooks.library.nd.edu.

Conservators play vital role in preserving collections



Rare books conservator **Sue Donovan** holds a rare herbal book by 16th-century German physician and botanist Leonhart Fuchs, part of the Edward Lee Greene collection. In 2012, it was discovered that the book had spine linings of parchment manuscript waste used to bind the book, including an extremely rare medical text by Constantinus Africanus (Constantine the African), an 11th-century physician and Benedictine monk from North Africa who spent the last part of his life in Italy.

Conservators discussed with the curators what to save and how to save it. The parchment pieces have been removed and photographed for documentation, and the book will then be reassembled. "It's been a wonderful project — the fragments have value, so we photographed them, put them back and documented the process," says Donovan. There are three different texts represented in the parchment found in the book.

Says rare books curator **David Gura**, "It's essential to have a top-notch conservation staff to preserve our collections for posterity, keeping them usable and accessible. We're very fortunate to have the conservators here."

Donovan completed her undergraduate studies at the University of Chicago and holds a master's in conservation from the Université de Paris 1 Panthéon-Sorbonne. She joined the University as a Samuel H. Cress Fellow in 2015 and was recently extended as a rare book conservator through July 2017.

Materials that connect us to knowledge

Making circulating materials backpack-proof



MATT CASHORE

Above, **Tosha McComb**, conservation technician for general collections, reattaches boards with toned Japanese paper and wheat starch paste. The paste is stable, alkaline and reversible in water. Modern resin-based adhesives are also used in repairing items in the circulating collections.

Conservation staff members pick up general circulation materials flagged as damaged or in need of repair weekly, and the books are triaged by the type of repairs needed — the case may be falling off, or the spine needs to be replaced. “We recreate custom spines and covers as well,” says conservator **Sue Donovan**. “We batch the circulating collections repairs to provide efficient and robust standardized treatments.” Other tasks include making book pockets to contain loose papers or errata that must stay with the volume.

Other jobs include mending, making protective boxes, making CoLibri covers — a trademarked system for making protective plastic covers for books — and sewing pamphlets into folders. The goal, Donovan says, is to make the circulating materials backpack-proof. “They get a lot of wear and tear.” Overall, the conservation lab strives to keep as much of the original book as possible, while strengthening and stabilizing the volume for use.

Conservation technician **Diane Sikorski** makes boxes for special collections. “We make our own alkaline card stock and cloth-covered clamshell boxes,” she says. She also makes plastic cradles to safely display books and other items for exhibitions in the gallery of Rare Books and Special Collections in the Hesburgh Library.



MAGGY SMITH

Back to the roots: Liz Dube

Preserving library collections — and old-timey music

BY MAGGY SMITH, FOR NDWORKS

Preservation follows **Liz Dube** around.

Dube wasn't sure what she wanted to do with her English major until she started working at a library. “I volunteered in the collections/development department to see what it was like, and the conservation lab was right next to them behind a glass wall. I always found myself peeking over, thinking ‘What’s going on in there? That looks really interesting!’”

Eventually her fascination took her to graduate school for preservation in Austin, Texas, and then to the Hesburgh Libraries Conservation Lab. Originally she just planned to stay three to five years, but 17 years later she's still here, and still preserving Notre Dame's collections.

“It's a good fit here,” she says.

Living in South Bend has also opened other doors for her. In 2008,

a banjo showed up in her life, and she started teaching herself how to play it. “It was a new challenge, something to do,” she recalls, “and then after a year I was looking for a teacher. I met an old-time banjo player at Fiddler's Hearth, so I went up and asked him if he knew of anyone teaching, and he said, ‘Well, you should come here if you play the banjo, on Tuesday nights; we have an old-time music session then.’ I said ‘I'll come listen.’ So I did, and I kept coming back, and they kept saying ‘Bring your banjo!’ I finally got up the nerve and played in the back of the group. Slowly but surely, I kept coming closer to the front. And now, I'm there every week.”

Today, she is very involved in the music scene at Fiddler's and across South Bend, picking up new skills and instruments as she goes along. She not only has several banjos that she plays in multiple styles, now she also plays guitar and fiddle and even sings.

“Singing is a lot of fun,” she says. “I never thought I had a voice, but it turns out everyone can sing, I think. You just have to sing yourself through the bad singing and find your voice. Most of this I wouldn't have seen myself doing.”

In both Dube's music and her work, one thread runs strong: preservation. Her interest in going back to the roots of a thing also shows through as she talks about her favorite songs and styles. The African influences in Americana music,

especially, interest her. It's those rhythms and beats that fascinate her, and what she listens for in her favorite songs and instrumentation.

“Every day, what I do is help preserve cultural artifacts and historical documents, and so my interest in that is perhaps related to my interest in preserving the older music — going back and chasing down older tunes, and bringing them back to life, playing them again, communicating and sharing them.”

As she keeps the old music alive, Dube also finds herself preserving the human connection so inherent in the style.

“It's social music, for sure. That's what's really kept me with it. It's a way of interacting and sharing. It's not stage music, it's not performance music; it's participatory.”

She loves to play at the South Bend Farmer's Market and on the streets of South Bend, where she can watch as the people listening catch the rhythms that have caught her. “It's the perfect setting for our music. I love it when kids start dancing in the street when we play,” she smiles. “You know when you see someone nodding their head to the beat, or tapping their toes, that you're doing something right. That's what it's all about.”

You can listen to Dube play on Tuesday nights at Fiddler's Hearth in South Bend, starting at 7:15 p.m.



MATT CASHORE

At left, rare books await protective enclosures in the Hesburgh Libraries Conservation Lab, located in the Reyniers Building west of the Notre Dame Federal Credit Union. The mission is preservation of the collections, from “analog to digital,” says conservator Liz Dube. “The conservation lab is where we treat the physical books and documents.”

SERVICE ANNIVERSARIES

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

35 Years

Mark Esenwein,
Finance and Administration

George A. Rozum,
Residence Halls Staff

David T. Tyson,
Mendoza College of Business

Robert M. Rowland,
Campus Technology Services
Jason A. Storms,
Landscape Services

15 Years

Tarzan D. Ball, College of
Arts and Letters

Gary E. Belovsky,
Biological Sciences

Tatiana A. Combs,
Office of Strategic Planning

Kenneth E. Filchak,
Biological Sciences

Beata Frelas,
Hesburgh Libraries

Sherry L. Hinegardner,
Athletics Business Office

Jeremy M. May, Mendoza
College of Business

Craig L. Tiller, Planning,
Design, and Construction

30 Years

Viola King,
Food Services Support Facility
Roberta L. Philotoff,
Hesburgh Libraries

25 Years

Douglas A. Franson,
Center for Arts and Culture
Mark R. Schurr, Anthropology

20 Years

Elaine D. Brown,
St. Michael's Laundry
James M. Bulger,
Center for Research Computing
Brian J. Burchett, Teaching
and Learning Technologies
Paolo G. Carozza, Law School
Jennifer L. Laiber,
Internal Communications
Willie B. Perry,
Food Services Support Facility

10 Years

Jessica L. Collett, Sociology
Christopher L. Frederick,
Customer IT Solutions
Jacqueline Holdren,
Joyce Center Housekeeping
Amy J. Schell,
Annual Giving Programs
John E. Scott,
Food Services Support Facility
David J. Veselik,
Biological Sciences

NEW EMPLOYEES

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

Luis G. Alberganti, Food
Services Administration
**Martin C. Biagi, Clay J.
Bignell** and **Jeffrey Quinn**,
Football
Martinez A. Cobb and
Shannon L. Marien,
Notre Dame Research
Elizabeth M. Colleran,
Athletics Digital Media
Neal W. Connolly,
University Health Services
Joshua R. Darguzis,
**Laminda Foree, Sandra
J. Ramirez-Rocio, Jeffrey R.
Rockwell, Elix L. Rondon**
and **Mevlida Tursunovic**,
Custodial Services
Traci L. Derda and
William G. Kraus, Security
Kristin M. Eichstedt,
**Pamela J. Herron, Thomas
R. Meadows, Sydney A.
Oliver and Eulalia M.
Roberts**, Morris Inn
Vicky L. Flesher, Research
and Sponsored Programs

Jackelyn K. Franco,
Center for Social Concerns
Zoe Gioja, CUSE
Kenneth J. Hallenius,
Center for Ethics and Culture
Michael C. Hannigan,
Office of General Counsel
Kangli Hao and **Reid
Johnson**, Computer Science
and Engineering
Paul M. Heroman and
Morgan E. Schlarb,
Executive Education
Anieka Johnson, ND
International Security Program
Steven J. Koich,
Office of Communications,
Arts & Letters
Viola McClenty,
Building Services
Ericka M. Mendoza,
Office of VP-Finance
Jared Olashuk,
Athletic Grounds
LaRita K. Robinson,
Hesburgh Libraries

IN MEMORY

Betty Broadnax, (Retiree, Food Services) March 1
Bettie Cholasinski, (Retiree, Investment Office) March 4
Cindy Barnett, (Term-vested employee)
Joan Smith, (Retiree, administrative assistant) March 10
Agnes Monhaut, (Retiree, Building Services) March 12
Virgillio Elizondo, (Faculty, Theology) March 14
Robert Duszynski, (Retiree, OIT) March 15
Paul Chagnon, (Retiree, Physics) March 22

MATT CASHORE



Tank receives Ganey Award

Research focuses on impact of agriculture on water quality

BY J.P. SHORTALL, CENTER FOR SOCIAL CONCERNS

Jennifer Tank, Galla Professor in the Department of Biological Sciences and director of the University's Environmental Change Initiative, has received the 2016 Rodney F. Ganey, Ph.D., Community-Based Research Award for working together with Kosciusko County farmers and local conservation staff to reduce nutrient runoff in the Shatto Ditch watershed.

The award is a \$5,000 prize presented annually to a regular faculty member at the University who has completed at least one research project that addresses a need within South Bend or the surrounding area.

The award is funded by local entrepreneur and philanthropist Rodney F. Ganey, and awarded by the Center for Social Concerns (socialconcerns.nd.edu).

Tank's research focuses on nutrient and carbon cycling in streams and rivers, and her recent efforts have been to quantify the effects of conservation practices on water quality in the agricultural Midwest.

She leads the University's Indiana Watershed Initiative Project, funded through the USDA Resource Conservation Partnership Program (RCPP), which includes partnerships with The Nature Conservancy, local Soil and Water Conservation Districts, County Surveyors and the USDA Natural Resource Conservation Service.

The initiative pairs two promising conservation practices: winter cover crops and floodplain restoration of waterways. The project will quantify how watershed-scale conservation can improve water quality in an effort to successfully meet national goals for reducing farm nutrient runoff by 40 percent.

The initiative was highlighted in March at a White House Water Summit. The Obama administration, in conjunction with the United Nations World Water Day, hosted the summit to raise awareness of water issues and potential solutions in the United States. The goal of the summit was to catalyze ideas and actions to help build a sustainable

and secure water future through innovative science and technology.

The watershed project quantifies the soil and water quality benefits due to the planting of winter cover crops and the installation of floodplain using two-stage ditches in two Indiana watersheds, located in Kosciusko and Jasper Counties.

For decades, farmers have added fertilizers to their soils to help maximize crop yields and profits. But nutrients that crops do not incorporate eventually run off into surrounding streams and rivers where they can cause serious problems. Excess nutrients such as nitrogen and phosphorus can change the character of water, even altering its biology so that it harms freshwater ecology and ultimately becomes undrinkable.

The project pays farmers to implement conservation practices over four years, with the goal of achieving cover crop coverage on 85 percent of cropland acres, and to install the two-stage ditch along the majority of channelized ditches. The research team is focusing on these two practices because they provide a practical solution to prevent nutrient and sediment loss from cropland.

When Tank began to research the problems of nutrient runoff in nearby Kosciusko County, she focused on the streams and rivers it affected. She soon realized that the problems extended beyond streams and rivers, and that they would require her to expand the scope of her research well beyond their banks. As Tank put it, "I needed to get out of the streams and rivers and talk with farmers, but farmers didn't necessarily want to hear from a biologist about what nutrient runoff was doing to freshwater."

Tank understood the farmers' skepticism and empathized with them. "Agriculture feeds the world and farmers need to make a living in a competitive business," she says. "I couldn't go to them with solutions that asked them to sacrifice crop yields and profits."

After many careful conversations with conservationists and farmers, Tank began to see herself less as a scientist offering solutions and more as a partner working on a common set of problems. The farmers she became acquainted with were sincere stewards of their land and did not

intend to harm water, but they did not want to be told what to do and have their own wisdom and experience with land use disregarded. They wanted to be involved in developing a good solution that satisfied everyone.

One of the methods that farmers have long used to protect land in the offseason — when fields would normally be bare — proved valuable to Tank's work. During the winter and spring, farmers often plant what are called cover crops, which are planted in late fall to slow erosion and improve soil health over the winter and spring before the next year's cash crop planting occurs.

Although Kosciusko County farmers were using cover crops more than on average for Indiana, this planting still amounted to a very low percentage of the land in the surrounding Shatto Ditch watershed. Tank and her collaborators believed that if they increased that percentage, they might keep more nutrients in the soil, instead of having them run off into streams and rivers where they harm freshwaters and do not benefit crops.

In Indiana, cover crops are currently used on average on less than 15 percent of land that can be used for crops, and that is considered high compared to the national average. Kosciusko County farmers in the Shatto Ditch watershed are now growing winter cover crops on about 70 percent of their acreage, a rate that has already significantly reduced the amount of nutrient runoff to local waterways while increasing fertilizer nutrients in soils, which farmers hope will lead to higher crop yields.

"After working closely with farmers, we have come to realize that real buy-in for this type of conservation will only come if it makes dollars and sense for agriculture as well," Tank says. "Our goal is to determine if environmental benefits can also translate positively for farmers."

Tank's research was featured as part of the University's 2015 "What Would You Fight For" series. View the video at fightingfor.nd.edu/2015/fighting-for-clean-water. For more information, visit environmentalchange.nd.edu.

from the
NOTRE DAME WELLNESS CENTER

Prediabetes and Diabetes: What You Need to Know

A Q&A with Chronic Condition Manager Maureen Jamieson

Q: What is diabetes?

Diabetes is a disease marked by the body having a problem with a hormone called **insulin**. When we eat, our body converts food into sugars or **glucose**, which provides fuel. Insulin is like the key that unlocks the cells of the body, allowing that fuel to be used as energy.

Type 1 diabetes (formerly called juvenile diabetes) is when the body doesn't make any insulin at all.

Type 2 diabetes is when the body produces some, but not enough insulin, or the insulin it does produce is ineffective in unlocking the cells and allowing the glucose to enter.

Q: Is diabetes serious?

A: Yes, diabetes is very serious. When glucose cannot get into our cells, it builds up in our blood. Over time, these higher levels of glucose can lead to cardiovascular disease, nerve damage, kidney disease, blindness and even amputation of limbs.

Q: What is prediabetes?

A: **Prediabetes** is just what it sounds like. It is a condition marked by higher than normal levels of glucose in the blood that are not yet high enough to be considered diabetes. However, if prediabetes is not treated, the risks of developing Type 2 diabetes increase dramatically. Think of prediabetes as a warning that diabetes could be ahead.

Q: What can be done about prediabetes?

A: Only your doctor can say for sure if you have prediabetes with a blood sugar test. But, by simply maintaining a healthy weight and exercising regularly, (30 minutes a day, five days a week) the risks of developing Type 2 diabetes can be lowered by as much as 60 percent. Notre Dame offers both Weight Watchers online and meetings memberships at a discount to benefit-eligible faculty and staff and their spouses. Meetings members can take advantage of an on-campus weekly meeting every Wednesday at noon in the Rolfs Sports Rec Center, lower level.

Q: How do I know if I am at risk for diabetes?

A: There are a number of risk factors for diabetes, including family history, age, weight, activity level and heritage. Use the questionnaire below to decide if you should talk with your doctor.

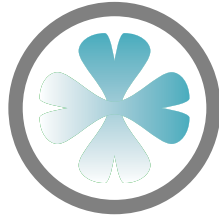
Q: What other resources are available for Notre Dame faculty and staff?

A: If you suffer from diabetes and are eligible to use the Wellness Center, the Chronic Condition Management program at the Notre Dame Wellness Center can coordinate with your primary care physician to help you manage your care.

In addition, your generic or preferred blood glucose medications, test strips, lancets and insulin are all available for a \$0 co-pay, provided they are ordered at the same time. This Wellness Program pricing can be received by in person pick-up at the Wellness Center pharmacy.

Q: Where can I learn more?

Visit the American Diabetes Association online at diabetes.org, or call 1-800-DIABETES (342-2383) for more information.



NOTRE DAME
WELLNESS
CENTER



Maureen Jamieson

For more information about the Wellness Center's Wellness Coaching and Condition Management programs, visit wellnesscenter.nd.edu or call 634-WELL (9355).

The Notre Dame Wellness Center's Wellness Coaching and Chronic Condition Management programs can help you reach your wellness goals. Programs are convenient, confidential and free for full-time, benefit-eligible faculty and staff and their dependents, and dependents of graduate students.

DIABETES QUIZ

Test yourself, then take appropriate action:

Are you overweight? Yes No

Are you an inactive person? Yes No

Are you 45 years of age or older? Yes No

Do you have an immediate family member with diabetes? Yes No

Do you have high blood pressure (140/90 or greater)? Yes No

Are you a member of any of the following ethnic groups? (African American, Hispanic, Latino, Native American, Asian American or Pacific Islander): Yes No

For women only, have you ever been diagnosed with gestational diabetes during pregnancy? Yes No

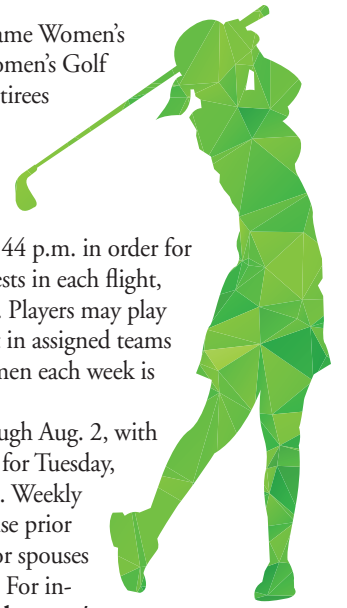
If you answered yes to one or more of these questions, then talk with your health care provider, who may recommend that your blood sugar be tested.

Join the Notre Dame Women's Golf League

Registration is open for the 2016 Notre Dame Women's Golf League, now in its 43rd season. The Women's Golf League is open to Notre Dame employees, retirees and spouses of Notre Dame employees and retirees.

The league plays on Tuesday evenings at the nine-hole Notre Dame Golf Course. Members must tee off between 4 p.m. and 5:44 p.m. in order for their scores to count. There are weekly contests in each flight, as well as prizes for pars, birdies and chip-ins. Players may play with any other league member(s) and are not in assigned teams or groups. In fact, playing with different women each week is encouraged.

The regular season runs from May 17 through Aug. 2, with the final tournament and banquet scheduled for Tuesday, Aug. 9. Annual dues for all members are \$20. Weekly greens fees are \$9, payable at the starter's house prior to tee-off. League members who are retirees or spouses of retirees are not required to pay greens fees. For information, visit recsports.nd.edu/intramural-sports/womens-golf-league; register online via the courses section of RecRegister, recregister.nd.edu.



Fischhoff Competition takes place May 6-8

The Fischhoff National Chamber Music Association annually sponsors the world's largest chamber music competition, offering one of the most prestigious classical music prizes attainable today.

The 43rd Annual Fischhoff Competition takes place Friday, May 6, through Sunday, May 8, in the DeBartolo Performing Arts Center. The competition attracts talented young musicians from across the globe. This year's competition includes 49 ensembles from 31 countries.

The competition weekend features quarterfinal rounds on Friday, semifinal rounds on Saturday and final rounds on Sunday. Each round consists of 20 minutes (seniors

or 15 minutes (juniors) of music per ensemble. Audiences will have 81 performances to select from throughout the weekend.

Friday, Saturday and Sunday competition rounds are free and open to the public. Tickets are required for the Sunday afternoon awards and Gold Medalist Concert. Tickets are available from the DeBartolo ticket office, 631-2800. Tickets are \$10 for adults, \$8 for faculty/staff and senior citizens with valid ID. Tickets are \$5 for Notre Dame and Saint Mary's students with a valid ID.

For those unable to attend in person, Saturday and Sunday performances will be live-streamed online at fischhoff.org.



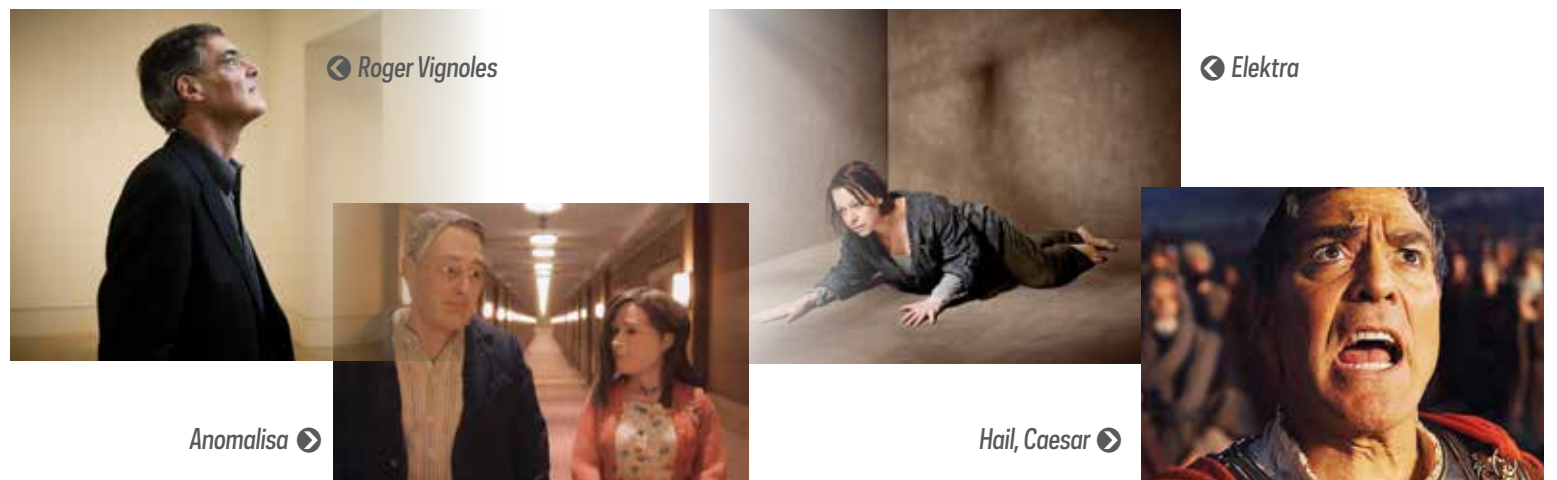
2015 Fischhoff National Chamber Music Grand Prize winners Zora String Quartet, Jacob's School of Music, Bloomington, Indiana.

Got a story idea?

Send it to ndworks@nd.edu

ND Arts

MAY 2016



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 are the faculty/staff rate.

MUSIC

Ainsley-Vignoles Song Recital

Department of Music
2 p.m. Saturday, April 23; \$10
International art songs by Gounod, Britten and Schumann performed by two of the world's greatest recitalists — tenor John Mark Ainsley and pianist Roger Vignoles. Family friendly, all ages are welcome.

Opera ND Presents "As You Like It"

Department of Music
7:30 p.m. Thursday, Friday and Saturday, April 21-23
2:30 p.m. Sunday, April 24; \$15
Opera Notre Dame presents the world premiere of a new opera based on Shakespeare's comedy by British composer Roger Steptoe, with libretto by Lesley Fernandez-Armesto and direction by Leland Kimball. Family friendly, all ages are welcome. Not recommended for children under age 7.

THEATER

Final Performance: Acting for the Non-Major

Department of Film, Television, and Theatre
7 p.m. Tuesday, April 26
Students present final scenes as the culmination of the course "Acting for the Non-Major," taught by Anton Juan. Event includes mature or adult content. This is a free but ticketed event. To guarantee your reservation please pick up your will-call tickets at least 15 minutes prior to the performance. In the event of a sellout, unclaimed will-call tickets will be used to seat patrons waiting on standby.

Michiana Young Playwrights Project

Department of Film, Television, and Theatre
7 p.m. Friday and Saturday, April 29 and 30
Join us for staged readings of brand-new 10-minute plays written by local middle and high school students and performed by Notre Dame theatre students. Family friendly, all ages are welcome. This is a free but ticketed event. To guarantee your reservation please pick up your will-call tickets at least 15 minutes prior to the performance. In the event of a sellout, unclaimed will call tickets will be used to seat patrons waiting on standby.

Tickets for Browning Cinema movies are \$6 for faculty/staff, \$5 for those 65 and up, 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.

DANCE

Diavolo/Architecture in Motion

Presenting Series
7 p.m. Thursday and Friday, April 28 and 29
7:30 p.m. Saturday, April 30; \$40
Diavolo delivers an evening of athletic power and human vulnerability shot through with the thrill of danger. Performing a distinct style of "Architecture in Motion," the company uses abstract and recognized structures to explore the relationship between the danger of our environment and the fragility of the human body. Each work is a fusion including everyday movement, ballet, contemporary, acrobatics, gymnastics, martial arts and hip-hop.

METROPOLITAN OPERA

The Met Live in HD: Elektra
1 p.m. Saturday, April 30; \$23
130 minutes, live broadcast
Director Patrice Chéreau ("From the House of the Dead") didn't live to see his great Elektra production, previously presented in Aix and Milan, make it to the stage of the Met. But his overpowering vision lives on with soprano Nina Stemme — unmatched today in the heroic female roles of Strauss and Wagner — who portrays Elektra's primal quest for vengeance. Legendary mezzo-soprano Waltraud Meier is chilling as Elektra's fearsome mother, Klytämnestra. Soprano Adrienne Pieczonka and bass Eric Owens are Elektra's troubled siblings. Chéreau's musical collaborator, Esa-Pekka Salonen, conducts.

CINEMA

Cemetery of Splendor (2015)

New at the Browning
3 p.m. and 9 p.m. Saturday, April 23
Directed by Apichatpong Weerasethakul
Not Rated, 122 minutes, DCP
Thai with English subtitles
Soldiers with a mysterious sleeping sickness recuperate in a temporary clinic that formerly housed a school. The memory-filled space becomes a revelatory world for volunteer Jenjira, as she watches over a handsome soldier with no family visitors and befriends a young medium who uses her psychic powers to help loved ones communicate with the comatose men. The latest hallucinatory vision from Apichatpong Weerasethakul is one of the top-ranked films of 2015 by both "Sight and Sound" and "Cahiers du Cinéma."

Francofonia (2015)

New at the Browning
6:30 p.m. Saturday, April 23
3 p.m. Sunday, April 24
Directed by Alexander Sokurov
Not Rated, 87 minutes, DCP
French, German and Russian with English subtitles
Set against the backdrop of the

Louvre Museum's history and artworks, master director Alexander Sokurov ("Russian Ark") applies his uniquely personal vision onto staged re-enactments and archives for this fascinating portrait of real-life characters Jacques Jaujard (Louis-Do de Lencquesaing) and Count Franziskus Wolff-Metternich (Benjamin Utzerath) and their compulsory collaboration at the Louvre Museum under the Nazi Occupation. These two remarkable men, enemies then collaborators, share an alliance that would become the driving force behind the preservation of museum treasures.

The Bride Wore Black (1968)

Tuesday Night Noir
7 p.m. Tuesday, April 26
Directed by François Truffaut
Not Rated, 107 minutes, 35mm
French with English subtitles
Julie (Jeanne Moreau), a beautiful young bride, has just married her childhood sweetheart and love of her life. But moments after the ceremony, her beloved is murdered on the steps of the church. Emotionally distraught, Julie becomes obsessed with her bridegroom's death and begins a descent into madness as she relentlessly pursues the men responsible. An homage to the master of suspense, François Truffaut's Hitchcockian neo-noir is both bone-chilling and deeply romantic. Free for Notre Dame students.

Anomalisa (2015)

New at the Browning
7 p.m. Thursday, April 28
6:30 p.m. and 9 p.m. Friday, April 29
6:30 p.m. and 9 p.m. Saturday, April 30
Directed by Charlie Kaufman
Rated R, 90 minutes, DCP
Academy Award Nominee — Best Animated Feature
Michael Stone, author of "How May I

Help You Help Them?" is a man crippled by the mundanity of his life. On a business trip to Cincinnati, he checks into the Fregoli Hotel and discovers a possible escape from his desperation in the form of an unassuming Akron baked goods sales rep Lisa, who may or may not be the love of his life. A beautifully tender and absurdly humorous dreamscape from the brilliant minds of Charlie Kaufman ("Synecdoche, New York," "Being John Malkovich") and Duke Johnson, this stop-motion animation wonder features the vocal cast of Jennifer Jason Leigh, Tom Noonan and David Thewlis.

The Black Panthers: Vanguard of the Revolution (2015)

New at the Browning
3 p.m. Sunday, May 1
Directed by Stanley Nelson
Not Rated, 115 minutes,
Digital Projection
In the 1960s, a new revolutionary culture was emerging that sought to drastically transform the system. The Black Panther Party for Self-Defense would, for a short time, put itself at the vanguard of that change. "The Black Panthers: Vanguard of the Revolution" explores the Black Panther Party, its significance to the broader American culture, its cultural and political awakening for black people, and the painful lessons wrought when a movement derails. Documentarian Stanley Nelson weaves a treasure trove of rare archival footage with the diverse group of voices of the people who were there: police, FBI informants, journalists, white supporters and detractors, and Black Panthers who remained loyal to the party as well as those who left it. Free admission.

Hail, Caesar (2016)

New at the Browning
7 p.m. Thursday, May 5; 6:30 p.m. and 9:30 p.m. Friday, May 6; 6:30 p.m. and 9:30 p.m. Saturday, May 7
Directed by Joel and Ethan Coen
Rated PG-13, 106 minutes, DCP
The latest from Oscar-winning filmmakers Joel and Ethan Coen ("No Country for Old Men," "Fargo") is an all-star comedy set during the latter years of Hollywood's Golden Age. When a movie star vanishes and his captors demand an enormous ransom for his safe return, it will take the power of Hollywood's biggest names to solve the mystery of his disappearance. This comic whodunit showcases the unexpected humor and drama found behind the scenes of the film industry and marks the Coens at their most whimsical and inventive.

OTHER

Moving Through Math: Grouping Games for Teaching the Language of Mathematics

DeBartolo Performing Arts Center
4 p.m. Wednesday, May 11; \$15
During Grouping Games, students move around the room, create frozen body shapes and work in groups to represent core concepts in K-6 mathematics. These experiences provide learners with strong kinesthetic, visual and spatial representations of math. Students describe their work using sentence stems to strengthen their correct usage and understanding of mathematical language. For educators of grades K-6.



Spotlight

Michiana Jewish Film Festival

Co-presented by the DeBartolo Performing Arts Center and the Jewish Federation of St. Joseph Valley.

Dough (2015)

5:30 p.m. Monday, May 9
 Directed by John Goldschmidt
 Not Rated, 94 minutes, DCP
 Curmudgeonly widower Nat Dayan (Jonathan Pryce) clings to his way of life as a kosher bakery shop owner in London's East End. Understaffed, Nat reluctantly enlists the help of teenager Ayyash (Jerome Holder), who has a secret side gig selling marijuana to help his immigrant mother make ends meet. When Ayyash accidentally drops his stash into the mixing dough, the challah starts flying off the shelves and an unlikely friendship forms between the old Jewish baker and his young Muslim apprentice.

Son of Saul (2015)

8 p.m. Monday, May 9
 Directed by László Nemes
 Rated R, 107 minutes, DCP
 Hungarian, Yiddish, German, Polish, French, Greek and Slovak with English subtitles
 Academy Award Winner — Best Foreign Language Film
 Saul Ausländer (Géza Röhrig) is a Hungarian member of the Sonderkommando, the group of Jewish prisoners isolated from the camp and forced to assist the Nazis in the machinery of large-scale extermination. While working in one of the crematoriums, Saul discovers the body of a boy he takes for his son. As the Sonderkommando plans a rebellion, Saul decides to carry out an impossible task: save the child's body from the flames, find a rabbi to recite the mourner's Kaddish and offer the boy a proper burial.

Rosenwald (2015)

5:30 p.m. Tuesday, May 10
 Directed by Aviva Kempner
 Not Rated, 95 minutes, DCP
 Rosenwald is the incredible story of Julius Rosenwald, the son of an immigrant peddler who never finished high school but rose to become the president of Sears, Roebuck and Company. Influenced by the writings of Booker T. Washington, this Jewish philanthropist joined forces with African-American communities in the Jim Crow South to build over 5,300

schools, providing 660,000 black children with access to education. Inspired by the Jewish ideals of tzedakah (charity) and tikkun olam (repairing the world), as well as a deep concern over racial inequality in America, Rosenwald used his wealth to become one of America's most effective philanthropists.

Remember (2015)

8 p.m. Tuesday, May 10
 Directed by Atom Egoyan
 Rated R, 95 minutes, DCP
 English and German with English subtitles
 Zev Guttman (Christopher Plummer) is a 90-year-old struggling with memory loss who is living out his final years in a retirement home. Following the death of his wife, he receives a mysterious package from his friend, Max (Martin Landau). The package includes a letter that details a shocking plan to seek revenge on the sadistic guard responsible for the death of both of their families at Auschwitz.

Phoenix (2014)

5:30 p.m. Wednesday, May 11
 Directed by Christian Petzold
 Rated PG-13, 98 minutes, DCP
 English and German with English subtitles
 A riveting mystery of identity unfolds against the turmoil of post-World War II Germany in the stunning new film from director Christian Petzold (Barbara). Nelly (Nina Hoss), a German-Jewish nightclub singer, has survived a concentration camp, but with her face disfigured by a bullet wound. After reconstructive surgery, Nelly emerges with a new face, one similar but different enough that her former husband, Johnny (Ronald Zehrfeld), doesn't recognize her. Rather than reveal herself, Nelly walks into a dangerous game of duplicity and disguise as she tries to figure out if the man she loves may have betrayed her to the Nazis.

Labyrinth of Lies (2014)

8 p.m. Wednesday, May 11
 Directed by Giulio Ricciarelli
 Rated R, 123 minutes, DCP
 German with English subtitles
 During Germany's economic recovery of the 1950s, a Frankfurt public prosecutor uncovers documents that help initiate trials against members of the SS who served in Auschwitz. Based on the events that led to the historic Frankfurt Auschwitz trials, "Labyrinth of Lies" (Germany's submission for the Academy Awards) offers a powerful dramatic reflection on the war and its aftermath.

Above and Beyond (2014)

5:30 p.m. Thursday, May 12
 Directed by Roberta Grossman
 Not Rated, 90 minutes, DCP
 In 1948, just three years after the liberation of Nazi death camps, a group of Jewish American pilots answered a call for help. In secret and at great personal risk, they smuggled planes out of the U.S., trained behind the Iron Curtain in Czechoslovakia and flew for Israel in its War of Independence. As members of Machal ("volunteers from abroad") this ragtag band of brothers not only turned the tide of the war but they also embarked on personal journeys of discovery and renewed Jewish pride.

East Jerusalem, West Jerusalem (2014)

8 p.m. Thursday, May 12
 Directed by Henrique Cymerman and Erez Miller
 Not Rated, 80 minutes, DCP
 Israeli singer-songwriter David Broza sets out to realize his dream of cooperation and dialogue between Israelis and Palestinians through music. During an eight-day recording session, Broza works with a range of artists including Steve Earle, Wyclef Jean and Mira Awad as well as many other American, Israeli and Palestinian musicians. While the situation in East Jerusalem is far from peaceful, a hopeful message of equality and unity arises.



Above and Beyond



Dough



East Jerusalem, West Jerusalem



Labyrinth of Lies



Remember

Notre Dame to host world premiere opera adaptation of Shakespeare's 'As You Like It'

BY JOSH WEINHOLD,
ARTS AND LETTERS

For the first time ever, the University will host the world premiere of an opera: a commissioned production of "As You Like It," the classic Shakespearean comedy.

The four-show run is a highlight of "Shakespeare: 1616-2016," a yearlong series of campus events commemorating the 400th anniversary of William Shakespeare's death. The opera features two casts, composed primarily of Notre Dame and Indiana University South Bend students.

Presented by Opera Notre Dame in conjunction with Shakespeare at Notre Dame, performances start at 7:30 p.m. on April 21, 22 and 23 — the anniversary of Shakespeare's death — and at 2:30 p.m. April 24 in the Patricia George Decio Theatre at the DeBartolo Performing Arts Center.

"It is rare for a liberal arts program like ours — where most of our undergraduate students, even the music majors, do not necessarily aspire to careers in music performance — to stage an opera every year, which we've done since 2004," said **Peter Smith**, chair of the Department of Music and a professor of music theory. "It is doubly challenging to stage a new work — it raises the level of ambition even higher, and our students are surpassing all expectations."

A comedy of family conflict, mistaken identity and love triumphing over all, "As You Like It" — which has never previously been adapted as an opera — features many of Shakespeare's most famous lines, from "all the world's a stage" to "forever and a day" to "too much of a good thing."

Composed by renowned British musician Roger Steptoe with a libretto by Lesley Fernandez-Armesto, "As You Like It" is staged by veteran opera director Leland Kimball and conducted by John Apeitos, the resident conductor of the National Radio Symphony of Greece. Students involved in the production also received guidance and training from world-famous opera singers Nathan Gunn and Deborah Voigt.

Given the location of its premiere, the production features numerous Notre Dame touchstones. The setting has been shifted from a 16th-century French duchy to a modern American college campus and the wooded area that surrounds it. The staging features iconic Notre Dame visual imagery and a silhouette of the campus skyline. A pair of characters are dressed as a Notre Dame football player and a Holy Cross priest, and a dirge featured in Act I is a reinterpretation of the Notre Dame Victory March.

In writing the libretto, the London-based Fernandez-Armesto aimed to transform dense prose into lines that were light, lyrical and suitable for singing. Shakespeare's words have not been changed, but the plot has been

streamlined, simplified and made more comic and contemporary.

"There are feisty female characters, brotherly conflicts, over-the-top 'love at first sight' moments and bucolic feasting," she said. "It was essential to create something that was tailor-made for Notre Dame, yet will work perfectly should the opera have a life elsewhere."

Kimball, who has directed more than 70 productions, including in his time as general director of Opera Delaware, has significant experience with world premieres, overseeing debut performances of "A Wrinkle in Time," "Slaying the Dragon" and "Danse Russe." Three productions he directed at Temple University won best U.S. college production awards from the National Opera Association.

Steptoe, the composer of the opera "King of Macedon" as well as four concertos and many sonatas, song cycles and pieces of chamber music, is no stranger to adapting Shakespeare. His "Five Shakespeare Songs" premiered in 2012 and his composition of "Four Shakespeare Sonnets" won the Performing Right Society for Music Foundation Award in 2013.

"Setting Shakespeare's poems or sonnets to music is one thing — creating an opera is something completely different," said Steptoe, who lives in Uzerche, France. "It's getting the pacing of it right, using the language well, forming the structure, making it lyrical. Music is like cooking — if you put too much salt in a dish, then it's ruined. It has to be perfect. I truly hope this is an experience that everyone will enjoy."

Gunn, a Grammy Award-winning baritone and an artist-in-residence with Notre Dame's Department of Music, spent time during the fall semester with the opera workshop class, which was beginning to prepare "As You Like It." Having performed in many world-premiere operas, Gunn advised the students on how to create a new role and approach material that has never previously been performed.

Voigt, an acclaimed dramatic soprano who has performed around the world, worked with the student performers for the final two weeks before the curtain rises, and she will be in attendance at the premiere.

"These are two of the top performing artists in the world," Smith said. "Any leading music department, school of music or conservatory would be over the moon to have such close contact with one of them, much less two."

Opera ND Presents 'As You Like It'

Department of Music
7:30 p.m. Thursday, Friday and
Saturday, April 21-23; 2:30 p.m.
Sunday, April 24; \$15

