Raclin, Murphys make lead gift for new art museum

BY DENNIS BROWN, MEDIA RELATIONS

Longtime philanthropists in the greater South Bend community — Ernestine Raclin and her daughter and son-in-law Carmen and Chris Murphy — have made a lead gift to the University for the construction of a new art museum. The Raclin Murphy Museum of Art will be the first phase of a new arts district on the south end of Notre Dame, bringing the community and University together.

According to the University’s 2018 Towel Hall meetings, all regular faculty and staff are encouraged to take the ImproveND survey in January. As John Affleck-Graves has said, “We want to hear your perspective — it’s the only way we can get better.”

By Dennis Brown, Media Relations

The Raclin Murphy Museum of Art will be the first phase of what is ultimately to become a 132,000-square-foot museum complex. Construction will begin in 2020 with an anticipated completion in late 2021 or early 2022. It will join the DeBartolo Performing Arts Center, Charles B. Hayes Family Sculpture Park, Matthew and Joyce Walsh Family Hall of Architecture and O’Neill Hall of Music in an assemblage of new facilities dedicated to the arts. The strategic location of the Raclin Murphy Museum will make it a welcoming entrance to the campus at Eddy Street, bringing the community and University together.

Raclin is a Trustee Emerita of Notre Dame, a formidable community leader for many years on the local, state and national levels and a generous supporter of the University. She, the Carmichael Foundation and her family made a lead gift to Notre Dame in 2011 to fund the renovation of the Morris Inn, the full-service on-campus hotel that was originally constructed in 1952 with a gift from her parents, the late Ernest M. and Ella L. Morris. She also contributed to Raclin-Carmichael Hall, the 1st Source Bank Commercialization Award and multiple other projects at Notre Dame.

Chris Murphy serves on Notre Dame’s College of Arts and Letters Advisory Council and, he and Carmen are members of the President’s Circle and Galt Planning Advancement Committee. In addition to serving on the Indiana Commission for Higher Education, he is chair of the Medical Education Foundation and the Indiana Academy Board of Regents, and he is a member of the board of the Independent Colleges of Indiana. Carmen Murphy has served on the Snite Museum Advisory Council since 2007 and is a life board member of WNIT. She served for 15 years on the Saint Mary’s College Board of Trustees and now sits on the President’s Council. Among others, she serves on the boards of the Michiana YMCA, Memorial Health Foundation and Family and Children’s Centers. Four of Chris and Carmen’s children have Notre Dame degrees.

The Snite Museum is located north of Notre Dame Stadium and will remain an integral part of the campus. It opened in 1980 thanks to a $2 million gift from Fred B. Snite Sr. Some 15,000 schoolchildren visit the Notre Dame campus each year to experience the arts.

Notre Dame’s art collections number more than 25,000 works. Exceptional holdings include the Jack and Alfrida Feddersen Collection of Rembrandt Etchings, the Noah L. and Meriurst Burkin Collection of 19th-Century French Art, the John D. Reilly Collection of Old Master Drawings, the Janos Scholz Collection of 19th-Century European Photographs, the Mr. and Mrs. Russell G. Ashbaugh Jr. Collection of Mestrovic Sculptures, the George Rickey Sculpture Archive, and the Virginia A. Mather Collection of Decorative Arts. Other collection strengths include Mesoamerican art, 20th-century art, Native American art, Old Master paintings and decorative and design arts.
Walk the Walk Week will be held January 15-22.

Visit diversity.nd.edu for information on the week’s events.

#NDwalkthewalk
Repurposed furnishings assist charities far and near

**Items shipped to seven different countries**

**BY DONNETTA MCCLELLAN, SUSTAINABILITY**

In addition to managing the construction and furnishing of Duncan Student Center, Coherty Family Hall, O’Neill Hall and Jenkins and Nanovic Halls over the past few years, the Facilities Design and Operations team has also coordinated the renovation of several residence halls on campus.

One question with any residence hall renovation project is how to re-purpose the hundreds of pieces of old dorm room and lounge furniture. For the past several years, Jolene Lock, interior projects manager for FDEO, has coordinated partnerships with various local and global companies to help charities in need. This past May, the University, through a partnership with Asset 360, provided furnishings to a number of organizations in seven different countries.

From Badin, Paquerrilla East and Fischer Graduate Residences came 2,674 pieces of furniture, which include the moving and storage crew managed to fit into 20 shipping containers. In all, 216,436 pounds were shipped to various locations in El Salvador, Trinidad, Nicaragua, Jamaica, Guatemala and Ghana, diverting more than 108 tons of waste from the landfill.

The Dominican Republic received two containers, which were shared between several Salesian mission schools, a local seminary and homes for at-risk boys and girls. Says Lock, “Each year we continue to reach out and donate as much as we can to communities and countries in need so that we can share our faith, community, excellence, tradition and education with the world.”

In 2016, the University partnered with IBN Surplus/The Reuse Network, which assisted in the donation of more than 2,200 pieces of furniture from Walsh and Knott Halls to the local Habitat for Humanity as well as to Food for the Poor in Jamaica. The organization matches surplus furniture and equipment with charities and nonprofits around the world. On a smaller scale, lounges in Welsh Family Hall recently received updated décor, sending 200 pieces of furniture to NDsurplus.

FurnishND, the furniture management program for faculty and staff, also receives furniture from campus renovations, thereby providing the entire campus with the opportunity to “reduce, reuse and recycle.”

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**Notre Dame continues its commitment to sustainability**

**BY DONNETTA MCCLELLAN, OFFICE OF SUSTAINABILITY**

A key component of the University’s Comprehensive Sustainability Strategy includes reducing its carbon dioxide emissions in part through increasing its use of renewable and recoverable energy sources. A new energy plant, located in the small wooded area northeast of campus, will help do that.

The East Plant will house mechanical equipment for the new geothermal well field located near the Ricci Fields; two 2,000-ton electric-driven chillers; and a thermal energy storage tank with the capacity to store 2 million gallons of chilled water.

“This new facility will provide capacity to support campus energy growth using efficient and renewable energy strategies,” says Paul Shoup, senior director of utilities and maintenance. “Supporting the campus’s largest geothermal project to date as well as utilizing efficient electricity produced at the power plant, this facility will provide both chilled water for cooling and hot water for heating.”

At a capacity of 1,350 tons, the East Plant’s five geothermal heat-recovery chillers will provide both heating and cooling. The chilled wa-
ter produced will be a source for the campus distribution system, while the hot water will be piped to nearby buildings to provide an efficient and greener approach to heating. Dunne, Flaherty and McCourtney halls have all been designed and built to use hot water heating, as will other buildings yet to be built in that area of campus.

Rather than having more chillers working during the peak daytime hours, a thermal energy storage tank will be used by the two chillers in the East Plant to produce and store chilled water during off-peak hours when demand is lower. In turn, this stored thermal energy can then be used during the day, making the system more efficient and cost-effective.

The thermal energy storage tank can store 16,000 ton-hours of chilled water. As a simple example, this system could then supply 2,000 ton-hours of chilled water for eight hours during the peak of the following day, along with 3,000 ton-hours the chillers could also produce at the same time, thus in this example producing 6,000 ton-hours during the peak period.

How exactly does a chiller system work? When a building needs cooling, chilled water is circulated through coils in a building at an atmosphere temperature of approximately 40 degrees. Air is then blown over the coils to produce the cooling effect. Chilled water is supplied to nearly 8 million square feet of campus buildings via a direct buried system and return piping system, which consists of over 12 miles of distribution piping. After the energy is transferred from the chilled water to cool the buildings, the warmer chilled water (nominally 55 degrees) returns to either the East Plant or power plant and the cycle is repeated. This closed looped system is renewable and self-contained.

The hot water heating system supplied by the geothermal systems works much in the same way as the chilled water system, distributing warm water (120-130 degrees), transferring the energy to the build-
ings through heating coils and then returning cooler water to the plant to be reheated.

The geothermal system will provide long-term cost savings and a renewable energy source, which will allow the University to reduce greenhouse gas production and increase energy security. By taking advantage of the fairly constant temperature below the earth’s surface, the network of closed loop water pipes brings heat from the warmer-than-ambient-temperature ground during the winter, and deposits excess surface heat in the cooler-than-ambient-temperature ground during the summer. The new Welsh Family Hall of Architecture will house a second geothermal plant, which will be used to heat that building and others planned in the area, as well as supply chilled water to the campus system at that location.

The well field for this plant is located beneath the stadium parking lot. At approximately 30,000 square feet, the East Plant facility is part of campus utilities’ long-range plan to become more sustainable. The plant should become operational sometime in 2019.

Additional utilities projects in progress or planned for the future include:

**Power plant expansion** — The University is installing two 5.5-megawatt combined cycle combustion gas turbines each with a dedicated heat recovery steam generator to produce both electricity and steam. These units will displace older power plant boilers with newer, higher efficiency and lower emission sources of energy.

**Hydro power** — The University is working with the city of South Bend and state and federal agencies to permit and construct a 2.5 megawatt hydroelectric facility on the St. Joseph River in downtown South Bend. This facility is expected to produce about 7 percent of the campus electrical needs.

**Heat recovery** — Numerous projects to recover and regenerate energy from existing energy sources are underway or in the planning phases, such as the power plant’s condenser water.

In August 2017, a 1,400-kilowatt solar array was brought on line to provide green energy to the Kenmore Warehouse located near the airport. Going forward, the University continues to plan for additional carbon reduction strategies from conservation, efficiencies and renewable and recoverable energy sources.
New eateries to open in Duncan Student Center

BY CORY HANKINS, MARKETING AND SOCIAL MEDIA SPECIALIST, CAMPUS DINING

It’s called Duncan Student Center, but faculty and staff are just as welcome here. If the Smith Center for Recreational Sports (Levels 5 and 4) doesn’t draw you inside, the three micro-restaurants on the first level will. The venues will offer everything from coffee beverages and smoothies to Asian street food and farm fresh whole food options that will appeal to vegans and meat lovers alike.

Deciding on the types of fare and the atmosphere was a collaborative community effort. From very early in the process, representatives from Student Affairs, Facilities Design & Operations, Campus Dining, and Student Government worked together to determine the types of restaurants that would be a good fit for the student center. What quickly surfaced was a common desire to bring novel, contemporary venues with healthy snack and meal options to the space.

“I am confident that student opinions were not only taken into consideration, but also were the driving force behind these venues being chosen. All three will be excellent additions to the new student center,” said Becca Blais, student body president. Mariah Cressy, web manager for Grotto Network (grottonetwork.com), works in Carhartt Family Hall on the east side of the stadium. She is not just excited about how close the micro-restaurants are to her work, but as a vegan, she’s looking forward to expanded lunch options.

“Before venturing out to campus eateries during my lunch hour, I usually scour the menus online to find out if/how I can modify certain dishes to make them vegan. It’s comforting to know Modern Market is taking that into consideration from the get-go!”

“We’re so excited with our latest micro-restaurants,” says Chris Abayasinghe, senior director of Campus Dining, adding, “These newest additions to our retail dining portfolio integrate nutrition, environmental stewardship and sourcing practices with the latest trends in dining.”

The restaurants are scheduled to open on Monday, Jan. 15. Here’s a rundown of what you’ll find there, plus some dish recommendations from Campus Dining staff.

Hagerty Family Café

Hours: Sunday–Wednesday, 7 a.m.–7 p.m. Thursday–Saturday, 7 a.m.–midnight

Enter Duncan from the north end and walk into the relaxed ambiance of Hagerty Family Café. The restaurant will feature Intelligentsia brand coffee, FreshDirect® Fresh Food Studio smoothies and crépes and a host of delicious pastries and galatos made by Campus Dining’s culinary team. You’ll also notice a stage in Hagerty where you can enjoy periodic musical performances, readings and comedy club events.

Campus Dining recommends:
- Nitro Coffee, Nutella Supreme Crépe and the Vitality Superfood Bowl.

Modern Market

Hours: Monday–Friday, 7:30 a.m.–6 p.m. and Saturday–Sunday, 10 a.m.–6 p.m.

Just inside Door 15 of Duncan is Modern Market, a farm fresh eatery chain created by Notre Dame alumna Rob McColgan ‘02 and Anthony Piglaccio, who left their day jobs in 2009 to open their first restaurant. Modern Market’s mission is simply “to serve amazing, healthy food to as many people as possible.” Dishes are made from scratch using whole, simple ingredients and are able to satisfy any dietary requirement, from gluten-free to vegan.

Campus Dining recommends:
- Peanut Butter Banana Oatmeal, Basil Chicken Sandwich and South Coast Salad.

Star Ginger Asian Grill and Noodle Bar

Hours: Sunday–Wednesday, 11 a.m.–10 p.m. and Thursday–Saturday, 11 a.m.–2 a.m.

This Asian grill and noodle bar is also just inside Door 15. A creation of Chef Mai Pham, who recently visited campus as a guest chef, Star Ginger offers simple dishes inspired by Asian street food and flavors from Thailand, Vietnam and Singapore.

Campus Dining recommends:
- Vietnamese Pho Noodle, Lemongrass Tofu and Thai Chicken Curry.

Open for business: Smith Center for Recreational Sports

If you made a New Year’s resolution to get into shape, you have an added incentive to keep it. The Smith Center for Recreational Sports opened on Jan. 8. The recreation center, which can be found on the third and fourth floors of the new Duncan Student Center, boasts triple the amount of fitness space that was available in Rolfs Sports Recreation Center. Rolfs is being renovated into the Notre Dame community’s men’s and women’s basketball practice facility.

The new Smith Center for Recreational Sports enables RecSports to offer the Notre Dame community a broader variety of fitness classes and equipment, including high-intensity training opportunities. The center is the hub of RecSports’ facilities, featuring a 1/6-mile suspended indoor track, a bouldering wall, and a 37’ 1/2-foot climbing wall that spans three stories inside Duncan. The wall will be open for use on Monday, Jan. 22, at 4 p.m.

Additionally, the Smith Center includes a new basketball court. Three new courts have also opened in the North Dome of the Joyce Center and are available for use by the Notre Dame community. Rockne Memorial, meanwhile, will continue to offer fitness equipment and classes, a weight room, a gym and a pool.

“The new Smith Center for Recreational Sports inside the Duncan Student Center provides an innovative space for the Notre Dame community to stay active,” stated Mark Williams, director of recreational sports. “We are looking forward to the opportunity that the new facility will provide for recreational and educational opportunities.”

University students, faculty and staff and their spouses, as well as retirees, are invited to take advantage of the new recreational facilities. To access Smith, patrons must have the newest version of the Notre Dame ID card.

Visit recsports.nd.edu for more information on RecSports programs and facilities.
Good Arguments

BY AMANDA SKOFSSTAD, MEDIA RELATIONS

“Welcome back, everyone. Who maximized expected utility over fall break?”

Meghan Sullivan, professor of philosophy, warmed up her Monday morning God & the Good Life class of 144 freshmen with a game theory question. They instantly tuned in — some giggling, several raising their hands.

Every Notre Dame undergraduate is required to take philosophy as part of the University’s commitment to a broad-based liberal arts education and the riches of the Catholic intellectual tradition. Sullivan’s God & the Good Life satisfies the first of two philosophy course requirements but is not your standard logic-plus-philosophical-history seminar.

She and two colleagues at other universities were recently awarded a National Endowment for the Humanities Summer Institute grant to help 25 faculty across the country explore ways to teach philosophy as a way of life. The course’s syllabus, videos, readings, discussion prompts and supplemental resources are all available as open-source content at godandgoodlife.org.

With a three-tiered teaching structure — including one professor, 18 “fellows” or peer discussion leaders who already took the course, and four graduate teaching assistants — God & the Good Life is a course model that puts students into philosophical dialogue and debate with each other around some of life’s big questions:

• What should you believe?
• What are your moral obligations?
• Should you practice a religion?
• What would it take for your life to be meaningful?

At the beginning of the semester, students take a survey on their personal beliefs and, based on the results, are placed in sustained dialogue groups maximized for ideological diversity.

The course website explains that the purpose of these groups — led by recent alumni of the course — is to “build a focused community where, over the course of the semester, you can better understand your own views on religion, morality and meaning and help your classmates better understand who they are.”

While arguments are the currency of the philosophical trade, students soon learn that understanding the positions of others is as important (or more) than forming and agitating one’s own arguments. This value comes especially into focus when the groups are assigned positions to debate in front of the entire class, whether or not they personally agree with the given position.

The topic for debate on Oct. 23 was, “Nobody should believe that God exists.” Sullivan presented a brief lecture on how philosophers approach questions of belief in God with the presence of horrendous evil in the world, offering the New London School disaster of 1937 as an example. A natural gas leak caused an explosion that resulted in the deaths of 295 students and teachers. Is God, by virtue of being morally perfect, Sullivan asked the students, able only to do what is good? What does God even care about? If God loves the natural laws so much, why does he sometimes violate them? And what is the role of human free will? If there is a God, Sullivan asked, wouldn’t he have prevented the New London School explosion?

At that point, she left the stage and two teams of three students presented. They took turns presenting arguments and hearing still other viewpoints from the audience. Sullivan surfaced in transitional moments to say, “The supporting team is not having it; let’s hear from the opposition team on this question of human free will.”

And later adding, “Even if no human caused the New London disaster, what do we think about a divine being that does nothing to stop it from happening? It’s just not super clear.”

At all times, and in stark contrast to much behavior in social media, the students in God & the Good Life are focused on listening to ideas, not the hands of the people involved or speculation on their motivations.

For Sullivan, the practice and teaching of philosophy is more than mere argument. Additionally, it is an opportunity to show how arguing well helps people live well — and how listening deeply, carefully and over a long period of time to people whose views seem offensive is an important exercise in community building.

“We do exercises like this all the time in our course, always emphasizing that viewpoints different from our own are not mere thought experiments,” Sullivan said. “A flesh-and-blood person in our community really believes this. We should seek to understand them.”

“I believe that having well-developed philosophical views is an integral part of what it takes to have a good life,” said Sullivan. “I am also convinced that becoming a logically rigorous and empathetic reasoner will serve students well in every other endeavor they undertake.”

Still, the fall 2017 God & the Good Life students appreciate a competition, and at the end of the debate, they tested their votes on who won the class debate to a survey streamed live on Sullivan’s monitor. The thesis prevailed.

The format of the class shapes the experience of the student in that they have a chance to dialogue with people who possess a wide variety of philosophical experience — fellow students, more advanced undergraduates, graduate students and their professor — and to do so in gain exposure to multiple perspectives, as well as to get a sense of what philosophical development looks like.

Whether the study of philosophy is beneficial for undergraduates has been the subject of quite a bit of research and press coverage. God & the Good Life offers an excellent model for how to bring philosophy to a wider audience without sacrificing analytical rigor.

Teaching assistant Caleb Durgin, philosophy Ph.D. student

The class teaches students what it truly means to have both a productively open mind and a solid intellectual foundation. The sustained dialogue in particular encourages students to develop intellectual empathy, honesty and stamina by hearing ideas they disagree with from smart peers with whom they become personally acquainted during the semester.

The question is not whether one will “use” philosophy in one’s life but whether one will do philosophy well. If students enter the class doubting the value of philosophy, they will leave the class at least doubting that assumption.

Elijah Grammer, freshman

God & the Good Life presents philosophical material in a very concrete and interactive way through in-class debates, small dialogue groups, writing op-eds and other activities that make philosophy fun and engaging. This class has influenced me to seriously consider a major in philosophy and has reinforced my desire to pursue a humanities major. It is by far my favorite class this semester, and I love thinking about, writing about, debating and discussing big questions.

G reGr, Fellow Melissa Franze, sophomore, science-business major with philosophy minor

Coming into college as a freshman, I thought that I had the world figured out. I remember writing the first God & the Good Life paper answering the question, “What do you believe? And why?” and being an utter loss for words. I had never had to define it or spell it out, and it took me a long time to justify why I had spent the last 18 years of my life believing made any sense.

Should everyone take God & the Good Life? Yes, a thousand times yes. This is not a class for a specific type of person nor does it favor people with religious or philosophical experience. Instead, I would say that the class exists where many can fail: It teaches students to think for themselves and engage in questions that they may have never asked otherwise.
Broad array of applications for Hesburgh Libraries’ 3-D printers

BY ELLEN CROWE FINAN, FOR NDWORKS

Adam Heet, digital project specialist in the Center for Digital Scholarship, says the Architecture Library is thrilled by the variety of users and wide range of purposes the campus has found for the Hesburgh Libraries’ five 3-D printers — from researchers to engineers to architects, from students to faculty, from printing prosthetic hands to creating a 3-D tactile campus map.

“It helps people conceptualize spatial concerns,” he says. “People can see and feel what spaces are like.”

Students in architecture and design have a great opportunity to visualize their projects with a relatively quick concept model they can hold in their hands. The 3-D printer can even help architecture students envision information printed in rare books, says Heet. By inputting the proportions for an ideal architectural treatise housed in the architecture library’s Ryan Rare Book Room, students can create 3-D models of those columns. “It gives students a gateway into what our rare books are discussing,” says Heet. “They can touch and hold it.”

In addition to its educational uses, the 3-D printer is making the campus more accessible for visually impaired students. Using a laser cutter to cut out the sidewalks and roads from mat board and aerial photographs to create scale models of campus buildings with a 3-D printer, a tactile map was created for the Sara Rea Center for Disability Services. “It helps students feel more in tune and in touch with the campus they attend,” Heet says. “They can actually feel and conceptualize the details of the Golden Dome, every stone of the Grotto or the image of Jesus on the face of the main library.”

In addition, they also created an all-touch-based map that visually impaired students can easily carry in their backpacks. “It’s a way to say welcome to campus,” says Heet.

In collaboration with the Historic Preservation Commission of South Bend and St. Joseph County, the Architecture Library is harnessing 3-D printing technology to create models of historic downtown buildings of South Bend’s past, such as the interior lobby and the exterior face of the Oliver Hotel; for Building South Bend: Past, Present & Future. “It helps us see the evolution of a historic downtown building over the years,” says Heet. The uses for the libraries’ 3-D printers have not been limited to creating models of buildings. For instance, they have also been used by Matthew Sisk, GIS librarian and anthropology and archaeology subject specialist, to fashion models of skulls, bone fragments and prehistoric tools; to make replacement parts for a student’s video console; and to create student Christmas ornaments. Recently, Notre Dame’s newly formed 3-D Printing Club has taken an interest in using 3-D printing to assemble prosthetic hands for children. The colorful prosthetic hands, which open and close, can be manufactured to resemble those of a child’s favorite superhero and cost just $10. “It’s a way for us to use the 3-D printer to serve the greater good,” says Heet. “We price things differently depending on the purpose of the project,” says Heet. “Over the last three to four years, we have learned a lot more about what the 3-D printers can do,” says Heet. “And we are always discovering new, exciting ways to use them within an academic environment.”

For more information on the 3-D printers, visit libguides.library.nd.edu/architecture/makerspace.

The architecture library’s 3-D printers were used to create scale models featured in a History Museum exhibition, "Commitment, Continuity, and Community: Architecture at Notre Dame, 1808 to the present." The exhibition continues through August 5, 2018.

2018 TEAM IRISH AWARDS

Department of Aerospace Studies: Flying Irish team

The Flying Irish team of the Department of Aerospace Studies was challenged to make significant strides in the areas of standardization, recruiting, training and retention of the 45-student cadet wing this past year.

The team met these challenges head on, generating process improvements that were adopted across 37 schools throughout the northeastern United States and saving up to 3,000 work hours in the first year alone. Through innovative and rigorous marketing initiatives, The Flying Irish more than doubled the incoming freshman class, growing it to the largest in seven years. They also boosted cadet retention by 38 percent with the implementation of a dynamic new training program. These accomplishments came at significant personal sacrifice from the faculty and staff — a true embodiment of service before self, a clear commitment to excellence and the Notre Dame mission.

The University of Notre Dame Care Program

The Care Program at the University is a cross-campus collaboration designed to help students who seek support for issues related to overall well-being, mental health-related support and academic assistance.

Comprised of 17 members of faculty and staff from 10 departments across the University, this team works with both administrative and academic units to facilitate this valuable program.

At the core of the program are the Care Consultants. The Care Consultants worked with 675 students during the 2016–17 academic year and, through their marketing efforts, increased student self-referrals from 13 students in 2013 to 87 students in 2016–17. The Care Consultants work collaboratively with the Academy and other members of the Care Program team and recently developed a readmission orientation for all returning students and their families in order to be more welcoming and inclusive.
Connecting the classroom

Infrastructure tour of New York City offers civil and environmental engineering majors real-world experience

BY CAROL C. BRADLEY, NDWORKS

In mid-November, a group of nearly 50 junior majors in the Department of Civil & Environmental Engineering & Earth Sciences traveled to New York City to view, over five days, infrastructure projects in progress around the city.

The group of 47 students, four faculty and staff members and three graduate students visited project sites including the Goethals Bridge replacement project (replacing a 1920s-vintage Port Authority bridge connecting Elizabeth, New Jersey, to Staten Island, New York) and a portion of the tunnels of the Metropolitan Transit Authority’s East Side Access project, which (when completed) will bring the Long Island Railroad into a new station connected to (and 150 feet beneath) Grand Central Terminal.

They also visited a number of civil engineering firms and still had time to try the pastrami at Katz’s Delicatessen, pizza in Times Square and tessen, pizza in Times Square and to try the pastrami at Katz’s Delicatessen, pizza in Times Square and to try the pastrami at Katz’s Delicatessen, pizza in Times Square and to try the pastrami at Katz’s Delicatessen, pizza in Times Square and to try the pastrami at Katz’s Delicatessen, pizza in Times Square.

“The trip took all the ideas and formulas I’ve been taught and made them tangible. I would love to thank the donors who made this trip possible. I hope they realize the positive impact they are having on each of our lives through funding this trip.”

— Student comment

Joannes Westerink. “We visit design firms, construction sites and research labs — we look for big, challenging projects. We want to show the students opportunities across the board.”

Westerink and the Computational Hydraulics Laboratory are software developers, he notes. “Anything that relates to the interface of oceans and humans. That can include navigation, ports and harbors, sediments, fishery, pollution, sewage discharge into oceans from cities. We also look at hurricanes, flooding, insurance issues, dune systems — it’s very dynamic.”

The software developed by Westerink’s lab is used worldwide — in China, India and Korea and by the NRC (Nuclear Regulatory Commission), FEMA (the Federal Emergency Management Agency), NOAA (the National Oceanic & Atmospheric Administration) and companies worldwide.

“We are civil engineers, but we embrace oceanography, meteorology, applied mathematics and computer science to solve civil and environmental problems,” he says.

In their civil engineering classes, students learn algorithms, mechanics and materials, rocks and minerals and subjects such as geotechnical engineering. But they may not have a clear sense of the many different job opportunities in the field they might pursue after graduation.

“It’s getting them real-world experience,” Westerink says. “It changes their view. Many think they have to choose between working for a design firm and working in the field. We have many stories of students who made a career shift, or the field trip sent them in a different career direction. It’s also increased retention in the field five years out. They’re staying in the field instead of going to law school or business school.”

Diane Westerink is the primary organizer of the field trips, which take considerable advance planning of travel and site visits for such a large group.

“A key component is the alumni who remember going on the field trip themselves,” she says. “The alumni network has been an inspiration. They have opened the most amazing doors. We are welcomed everywhere. Many of our graduates are in top positions in civil engineering firms.”

The field trips are supported by alumni donors and an Endowment for Excellence established by alumni Dennis Murphy ’71. Murphy, now retired, served as president of Kiewit Engineering Company, a construction, engineering and mining services company based in Omaha, Nebraska.

Murphy helps Diane plan the annual trips, with the goal of encouraging student travel to construction sites, significant and unique infrastructure facilities and engineering offices to, he says, “provide real-world experiences to help students understand why they’re studying what they’re studying, and why it’s so important to earn individual core competency in one’s field.”

Visiting firms led by Notre Dame alumni also provide “near peer” role models, he notes — those who are now working in the real world, but not long ago were students themselves. The visits to engineering offices also introduce students to internship opportunities they might not otherwise be aware of.

“I have recognized in my own experiences how critical it is to ‘see the world’ while still fully engaged as a student,” Murphy says. “Sometimes we can have the world come to campus, like the lecture series offered by civil engineering. But it is so much more visceral, impactful and ‘real’ when you can walk it or climb it, smell it and hear it. From such visits, most know quickly whether they are on the right career path.”

When visiting firms led by alumni, Diane says, “They say, ‘I wish I’d had this when I was an undergraduate.’ We’re very lucky to be able to offer these field trips.”

Below: On their first morning in New York, the group toured the Metropolitan Transit Authority’s East Side Access project (ESA), designed to bring the Long Island Railroad into a new East Side station being built below (and incorporated into) Grand Central Terminal. When completed, the ESA will serve around 162,000 customers per day with a new eight-track terminal and concourse 150 feet below Grand Central Terminal. The ESA, scheduled for completion in 2022, includes more than 8 miles of tunneling through bedrock and is one of the largest transportation infrastructure projects currently underway in the U.S.

Visiting the tunnels required descending and climbing 15 flights of stairs.

The group also visited a number of civil engineering firms, including Severson & Werson, like the lecture series offered by civil engineering. But it is so much more visceral, impactful and ‘real’ when you can walk it or climb it, smell it and hear it. From such visits, most know quickly whether they are on the right career path.”

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Junior civil engineering student Charles Amrien tours the Moynihan Station/Farley Train Hall redevelopment project hosted by Skanska USA.
Connecting the classroom to the outside world

Above: Students tour the Moynihan Station/Farley Train Hall redevelopment project with Chris Mackenzie, assistant project manager/PM from Skanska USA (center). The group toured the Farley Post Office building, across from Penn Station, which is undergoing a $2.5 billion transformation into the new Moynihan Train Hall. The hall will measure 255,000 feet square and includes a 92-foot-tall skylight, nine platforms and 17 tracks serviced by 11 escalators and seven elevators.

Skanska USA presenter John Marisak talks about the Moynihan Station/Farley Train Hall redevelopment project.

The group visited the HTNB Corporation’s design offices where they saw presentations on some of the group’s current projects, followed by a tour of the Goethals Bridge hosted by engineering and design firm Kiewit. Kiewit-Weeks-Massman JV (a tri-venture between a subsidiary of Kiewit Corporation with Weeks Marine, Inc. and Massman Construction) is building the new cable-stayed bridge, which will offer state-of-the-art smart bridge technology, including a Road Weather Information System. Diane Westerink, center; Joanna Westerink third from right; second from right in green vest, Thomas Massman (Massman Construction), a fourth-generation Notre Dame civil engineering graduate.

Climbing the Goethals Bridge scaffolding.

Left: The day concluded with a visit to the 9/11 Memorial, where pools and waterfalls are set in the footprints of the North and South World Trade Center Towers. The pools are the largest man-made waterfalls in North America.

Before re-boarding the bus for the trip back to campus, on Sunday morning the group celebrated Mass at St. Patrick’s Cathedral, where in 2012 engineering and environmental consulting firm Langan performed 3-D laser scans of the façade, sanctuary and attic spaces as part of the cathedral’s restoration.

“The trip truly opened my eyes to how much urban life relies on civil and environmental engineers. We take a lot of the infrastructure — from trains to subways to bridges and water systems — for granted.”

— Student comment

BARBARA JOHNSTON

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**F.A.S.T. (Faculty and Staff Training) Classes**

F.A.S.T. registration for spring 2018 begins via RecRegister on Thursday, Jan. 18, at 7:30 a.m. Registration is ongoing until classes are full. Classes meet Jan. 22-May 11. Classes will not meet on March 30 (Easter holiday). All classes are subject to change.

<table>
<thead>
<tr>
<th>DAY</th>
<th>CLASS</th>
<th>INSTRUCTOR</th>
<th>LOCATION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>9 – 10 a.m.</td>
<td>Yoga</td>
<td>Steve</td>
<td>Smith Center AR 1</td>
</tr>
<tr>
<td></td>
<td>12:15 – 12:45 p.m.</td>
<td>Zumba®</td>
<td>Steve</td>
<td>Smith Center AR 1</td>
</tr>
<tr>
<td></td>
<td>12:15 – 1 p.m.</td>
<td>Pump Round</td>
<td>Sara</td>
<td>Smith Center AR 3</td>
</tr>
<tr>
<td></td>
<td>4:30 – 5:15 p.m.</td>
<td>Cardio Sculpt</td>
<td>Indiana</td>
<td>Smith Center AR 2</td>
</tr>
<tr>
<td>Tuesday</td>
<td>9 – 10 a.m.</td>
<td>Body Sculpt</td>
<td>Sara</td>
<td>Smith Center AR 3</td>
</tr>
<tr>
<td></td>
<td>12:15 – 12:45 p.m.</td>
<td>Zumba®</td>
<td>Angelica</td>
<td>Smith Center AR 1</td>
</tr>
<tr>
<td></td>
<td>12:15 – 12:45 p.m.</td>
<td>Flex ‘N Tone</td>
<td>Indiana</td>
<td>Smith Center AR 2</td>
</tr>
<tr>
<td>Wednesday</td>
<td>9 – 10 a.m.</td>
<td>Yoga</td>
<td>Steve</td>
<td>Smith Center AR 1</td>
</tr>
<tr>
<td></td>
<td>12:15 – 12:45 p.m.</td>
<td>Express Bootcamp</td>
<td>Any</td>
<td>Smith Center AR 3</td>
</tr>
<tr>
<td></td>
<td>4:30 – 5:15 p.m.</td>
<td>Flex ‘N Tone</td>
<td>Indiana</td>
<td>Smith Center AR 2</td>
</tr>
<tr>
<td>Thursday</td>
<td>9 – 10 a.m.</td>
<td>Cardio Sculpt</td>
<td>Sara</td>
<td>Smith Center AR 3</td>
</tr>
<tr>
<td></td>
<td>12:15 – 12:45 p.m.</td>
<td>Cardio Step</td>
<td>Indiana</td>
<td>Smith Center AR 1</td>
</tr>
<tr>
<td></td>
<td>12:15 – 1 p.m.</td>
<td>Pump Round</td>
<td>Sara</td>
<td>Smith Center AR 3</td>
</tr>
<tr>
<td>Friday</td>
<td>9 – 10 a.m.</td>
<td>Zumba®</td>
<td>Kim</td>
<td>Smith Center AR 1</td>
</tr>
<tr>
<td></td>
<td>12:15 – 12:45 p.m.</td>
<td>Cardio Express</td>
<td>Indiana</td>
<td>Smith Center AR 3</td>
</tr>
</tbody>
</table>

For general RecSports information, please visit recsports.nd.edu.
INTRAMURAL SPORTS

Various intramural sports offer leagues and the opportunity for Notre Dame graduate students, faculty and staff to participate. Registration opens at 6 a.m. on registration open date and ends at 8 p.m. on registration close date. Spots are limited and will be taken on a first-come, first-served basis. To register, you must first create an account through IMLeagues. Once your account is created, you can register a team to play or as a free agent. Once your team is registered, you must pay by the following Wednesday online via RecRegister.

Visit recsports.nd.edu for more information.

<table>
<thead>
<tr>
<th>SPORT</th>
<th>REGISTRATION</th>
<th>DATES</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4v4 Flag Football</td>
<td>Jan. 22 – 23</td>
<td>Jan. 29 – March 8</td>
<td>$55</td>
</tr>
<tr>
<td>Bowling</td>
<td>Jan. 22 – 23</td>
<td>Jan. 31</td>
<td>$40</td>
</tr>
<tr>
<td>Badminton Doubles Tournament</td>
<td>Feb. 26 – 27</td>
<td>March 4</td>
<td>$10</td>
</tr>
<tr>
<td>Curling</td>
<td>Feb. 26 – 27</td>
<td>March 19 – April 24</td>
<td>$100</td>
</tr>
<tr>
<td>Outdoor Soccer</td>
<td>Feb. 26 – 27</td>
<td>March 19 – April 26</td>
<td>$55</td>
</tr>
<tr>
<td>Ultimate Frisbee</td>
<td>March 26 – 27</td>
<td>April 8 – May 1</td>
<td>$25</td>
</tr>
<tr>
<td>Softball Tournament</td>
<td>March 26 – 27</td>
<td>April 8 – 29</td>
<td>$25</td>
</tr>
<tr>
<td>Kickball Tournament</td>
<td>April 16 – 17</td>
<td>April 28 – 29</td>
<td>$25</td>
</tr>
</tbody>
</table>

AMERICAN RED CROSS ADULT CPR/AED AND FIRST AID

RecSports offers American Red Cross Adult CPR/AED and First Aid certification courses. This blended course combines award-winning, engaging and interactive online simulation learning plus an in-person classroom session to learn and practice critical lifesaving skills for certification. All schedules are subject to change. Visit recsports.nd.edu for more information and to register.

<table>
<thead>
<tr>
<th>DATE &amp; TIME</th>
<th>LOCATION</th>
<th>PRICE</th>
<th>REGISTER BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 15 • 2 – 3:30 p.m., 3:30 – 5 p.m.</td>
<td>Rockne Memorial Room 109 &amp; 110</td>
<td>$60</td>
<td>Jan. 13</td>
</tr>
<tr>
<td>Jan. 28 • 1 – 2 p.m.</td>
<td>Rockne Memorial Room 109 &amp; 110</td>
<td>$60</td>
<td>Jan. 26</td>
</tr>
<tr>
<td>Feb. 25 • 11 a.m. – Noon</td>
<td>Rockne Memorial Room 109 &amp; 110</td>
<td>$60</td>
<td>Feb. 23</td>
</tr>
<tr>
<td>March 25 • 11 a.m. – Noon</td>
<td>Rockne Memorial Room 109 &amp; 110</td>
<td>$60</td>
<td>March 23</td>
</tr>
<tr>
<td>April 29 • 11 a.m. – Noon</td>
<td>Rockne Memorial Room 109 &amp; 110</td>
<td>$60</td>
<td>April 27</td>
</tr>
</tbody>
</table>
VenueND offers full-service event and meeting planning

**NEW EMPLOYEES**

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

- Amsbary Arvind, Registrar
- Balmert Christine, Graduate School
- Balmert Charles, Compton Family Ice Arena
- Balmert Sabrina, Dempsey and Christopher, Johnson, Custo
- Balmert Aaron, Garman, User Services
- Balmert Manuela, Ghosh, Chemistry and Biochemistry
- Balmert Connor Howington, Noel R. Bambach and James C., Sweet, Center for Research Computing
- Balmert Deana A., Hummel and Ashley, S. Siva, Student Accounts
- Balmert Koby G., Keck, Sustainable Energy Initiative
- Balmert Christopher M., Kloski, Office of Student Enrichment
- Balmert Jessica M., Lacy, Outreach Engagement Recruiting
- Balmert Kaitlyn M., Ludlow, Financial Aid
- Balmert Vicki J., Maris, Human Resources
- Balmert Pete E., Mcук, Computer Science and Engineering
- Balmert Nancy M., Nalepinski, Notre Dame Research
- Balmert Teresa A., Quevran, Office of Student Development
- Balmert Nicholas, J. Eshotten, Computer Science and Engineering
- Balmert Jennifer L., Rambottom, GIB, Student Services
- Balmert Gabriel P., Rausch, Hesburgh Libraries
- Balmert Joseph E., Sibley, Student Development and Welfare
- Balmert Suzanne M., Smith, University Health Services
- Balmert Regional Walker and Taylor K. Williams, Morris Inn
- Balmert Mark D., Xander, Athletics Ticketing

**IN MEMORY**

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

- Balmert John C., Nelson, Transportation Services retiree, Nov. 3.
- Balmert Edward J., Balla, retiree, Nov. 23.
- Balmert Patricia Swihart, University Health Services retiree, Nov. 26.
- Balmert Rebecca Luchowski, retiree, Dec. 3.
- Balmert Elizabeth Turner, South Dining Hall retiree, Dec. 13.
- Balmert Irene Vorhath, Campus Dining, Dec. 15.
- Balmert David Bremner, advocate librarian in Hesburgh Libraries, Dec. 18.

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**SERVICE ANNIVERSARIES**

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

- **40 years**
  - Victor J. DeCola, Accounting Operations
- **35 years**
  - Terrence W. Retting, Physics
- **30 years**
  - Mary E. Eckert, Morris Inn
  - Joan J. Godalski, Arts Services
  - Loretta J. Logan, Custodial Services
- **25 years**
  - Richard S. Ballance, School of Architecture
  - Julia B. Enl, Notre Dame Magazine

**VENUE ND**

VenueND, campus’s centralized event services team, can help you make an impression with your next meeting or event. The event spaces are adaptable for all meeting sizes and budgets and offer executive-class touches and expert-level service.

Available venues include the IACC-certified conference center in McKenna Hall, the AAA-rated Four Diamond Morris Inn, and the best-in-class event spaces surrounding Notre Dame Stadium.

When a Notre Dame department books an event in one of the new premium spaces adjacent to Notre Dame Stadium in Duncan Student Center, Corbett Family Hall or O’Neill Hall, the reservation includes an operations cost that supports the services of campus partners, such as General Services and University Catering.

The complexity of these new spaces requires security and guest services personnel for wayfinding to event spaces and to ensure guests stay on event floors. The operations cost also includes set-up, breakdown and cleaning costs, and a screen and projector when it is native to the event space.

The VenueND team understands that memorable meetings demand memorable experiences. Enjoy cocktails on the concourse, curling at Compton Family Ice Arena, touch the world-famous “Play Like a Champion” sign, or even throw a football around on the field at Notre Dame Stadium.

For more information, visit VenueND online at venue.nd.edu, call 631-1400 or email VenueND@nd.edu.
**Learning and Organizational Development**

**Winter/Spring 2018 Programs**

**for Notre Dame Faculty & Staff**

**Maximizing Your Potential**

To enroll or learn more, log in to endeavor.nd.edu and search for classes through the Learner dashboard.

---

**Career Development**

**Managing Your Career: Assessment & Research**

Wed., Jan. 8, 8:00 a.m. - 12:00 p.m.

This workshop is designed to introduce participants to the uses and benefits of MBTI and to introduce the basics of how to interpret the results.

**Navigating the Endavor Tool**

OR Wed., May 3, 10:00 a.m. – 12:00 p.m.

Diversity & Inclusion

**We Are ND**

For non-supervising staff.

**Leave Programs Training for Managers**

This session is for supervisors and designated leave administrators for the department.

**Managing My Career: Taking Action**

Wed., Mar. 7, 9:00 a.m. - 12:00 p.m.

This in-depth workshop focuses on the third stage of Notre Dame's Career Management Process. Participants will complete a strategic planning plan to help them to develop their career plans.

**Supervision & Leadership**

**ND Essentials for Managing People**

**Crucial Conversations**

Wed., May 3, 1:00 p.m. - 4:30 p.m.

Learn to make requests assertively, say “no” to unreasonable demands, and respond assertively to criticism.

**Negotiation**

Mon., Apr. 3, 8:00 a.m. – 12:00 p.m.

Learn a collaborative and creative approach that results in better outcomes and stronger relationships.

**NEW:  Negotiation**

Thurs., May 1, 1:00 p.m. – 4:30 p.m.

Learn about the secrets of successful interviewing. Identify the fundamentals of how to prepare, how to manage your nerves, and how to project self-confidence.

**Learning Series Programs**

**Frontline Supervision**

Program begins February 15.

**Project Management Certificate Program**

**The Project Management Certificate**

**Multiple Offerings:**

- Tues., Jan. 30, 8:00 a.m. - 12:00 p.m.
- Mon., Jan. 8, 8:00 a.m. - 12:00 p.m.
- Wed. Feb 28, 1:00 p.m. – 5:00 p.m.
- Tues., Mar. 6, 8:00 a.m. - 12:00 p.m.
- Wed. Mar. 14, 8:30 a.m. – 4:30 p.m.
- Wed. Apr. 11, 8:30 a.m. – 4:30 p.m.
- Wed. May 9, 4:00 p.m. – 5:00 p.m.

**Learning to Lead Program begins March 2.**

Learning to Lead proposes planning a career in supervision to understand what it takes to make the transition from managing one’s own work to managing others.

For full Learning Series descriptions, dates, locations, and eligibility requirements, visit hr.nd.edu and click “Maximizing Your Potential” on the left-hand side.
29th Annual Notre Dame Student Film Festival

Notre Dame Film, Television, and Theatre; $7
6:30 and 9:30 p.m. Friday, Jan. 26
6:30 and 9:30 p.m. Saturday, Jan. 27
7 p.m. Sunday, Jan. 28

The 29th Annual Notre Dame Student Film Festival screens films that were made by undergraduate students during the past year in the Department of Film, Television, and Theatre. Audience members are invited to vote for their favorite film via text message and the Audience Choice Award is presented after the final screening.

Learn more about the Film Festival. See story on page 15.
What's happening at the Snite?

Modern Women’s Prints
includes more than 30 works
drawn from the permanent
collection of the Snite Museum,
some of which have never been
on public view. The selected
prints are by female artists
whose styles are drawn from
many cultural traditions and
reflect the full array of print-
making techniques. Among the
artists represented are Jennifer
Bartlett, Deborah Murhead
Dancy, Grace Hartigan, Lee
Krasner, Koo Kyung Sook and
Emmi Whitehorse.

Money Worries
O’Shaughnessy Galleries II & III
Jan. 21 through March 25
Money is a frequent source
of anxiety and stress in our
daily lives. How do we get it?
How do we keep it? What do
we do with it once we have it?
Bank notes are fundamentally
promissory notes that generate
and structure interpersonal
and social relations. How does
that affect our understanding
of our own self-worth, the
value we place on others, and
our relationships to them? The
“flip-side” of making value is
making inequality.

Winter 2018 exhibitions
Modern Women’s Prints
O’Shaughnessy Gallery West
Jan. 14 through March 18
This exhibition aims to disrupt
visitors’ received attitudes
toward money, wealth and
poverty by examining various
forms of antique and modern
currency and anachronistic
justapositions of historical and
contemporary depictions in
art of financial transactions,
allegories and portraits. Visitors
will also have an opportunity
to play digital or board games
that challenge assumptions of “fairness”
both in the artificial
environment of the game
and in life.

Film, Television, and Theatre presents the 29th Annual
Notre Dame Student Film Festival
Students creating films
for a wide audience
BY ELLEN CROWE FINAN,
FOR NDWORKS

When Ted Mandell, a 1986 No-
tre Dame graduate, returned to the
University as a faculty member in
the Department of Film, Television,
and Theatre to teach film and video
production, he founded the Notre
Dame Student Film Festival so stu-
dents’ films could be seen by a wider
audience. “When I was a student at
Notre Dame, technology has been
the biggest change.”

“...The technical aspects of making
films no longer get the emphasis it
did when I was a student,” he says.
Students today without a doubt are
born in a culture that understands
technology. None of my students
know life before YouTube.” This
allows Mandell to focus more on de-
veloping creative ideas and creativity
with his students.

Mandell and Bill Donaruma,
a teaching professor in filmmaking,
review student films created during
the 2017 spring and fall semesters,
choosing the best for screening at
the Notre Dame Student Film Festival.
Most films run eight to ten minutes.
“We choose the best quality films
that will fit in the festival’s two-hour
window,” says Mandell.

He urges his students to enter film
festivals around the country, too.
“Two to three Notre Dame student
films are really successful nationally
in film festivals from New York to
Los Angeles every year,” he says. “It
encourages students to produce films
for a wide audience.”

The festival has featured first films
of future award winners such as Peter
Richardson (2011 Sundance Film
Festival Grand Jury Award winner,
“How to Die in Oregon”) and John
Hibey (2012 Sundance Film Jury
Award Winner for Short Filmmak-
ing, “Fishing Without Nets”), as well
as numerous others.

As part of Notre Dame’s mission to
be a force for good, the department
recently launched a film festival for
high school students throughout the
country. They will select films created
on high school students’ phones for a
live public screening in August. “It’s a
great way for high school students to
use their phones for creative purpos-
es,” Mandell says.

As Mandell reflects on the evolu-
tion of filmmaking during his tenure
at Notre Dame, he says the most
important part of film is still the
ability to write and tell a story. “The
least technical part of the process of
filmmaking is still the most import-
ant,” he says.
Join us for the Notre Dame Community Open House

Monday, Jan. 15, from 9 a.m. to 6 p.m.
Ribbon cutting 11:30 a.m. in front of the first floor fireplace; taste testing from noon to 2 p.m.; giveaways; guided tours of floors 2, 3, 4 and 5; micro-restaurants will be open for business.

Take a sneak peek inside the new
DUNCAN STUDENT CENTER

1. The new basketball court in the Smith Center for Recreational Sports.


4. Destiny Glenn offers service with a smile at Modern Market.

5. With more than 200 pieces of equipment, the Smith Center for Recreational Sports has no shortage of workout options.

6. Plentiful seating can be found throughout the space.

7. Brick-oven baked artisan pizza is a specialty at Modern Market.

8. AnneMaria Mittiga serves up gelato at Hagerty Family Café, where you can find everything from coffee and smoothies to crêpes and gelato.