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FALL 2021 On the cover: Image showing Jeff grad going to encounter for the millionth time the reality of

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Creativity in Motion

ON FORECASTING, JEDI Master Yoda says this: "Difficult to see: always in motion is the future."

He's right of course. Then again, recognizing that the future is "always in motion" is already knowing something about it. If you want to make tomorrow happen today, the trick is learning how to look at things in fresh ways, how to master the creative thinking that's at the heart of innovation in every field.

At Thomas Jefferson University, creativity is more than an elective: It's the core of our curriculum. And innovation is more than a hobby: It's how we're preparing students for the professions of tomorrow. The future of work-and the work of the future—will depend as much on workers' ability to adapt and tap into creativity as it will on field-specific training.

The professions of today seem fixed, but they're in motion too. Teaching students how to stop, look, and reimagine-to see problems and devise solutions in completely new ways—is how we're making sure graduates are ready to take on whatever comes next.

When Philadelphia University and Jefferson came together four years ago, a lot of heads turned. An article about the merger in *Forbes* began with the statement, "This is not your typical ho-hum merger." They understood it was about disruptive innovation.

Innovation is all about creating the future. The story about our Creativity Core Curriculum and our Hallmarks Program gives some insight into how Jefferson is preparing students not merely for the job they'll get right out of college but for the perpetual motion of an entire career.

We like to say that Jefferson is rewriting the rules for higher education. And we are. The Class of 2021 is the first cohort of students to have the full four years of their undergraduate experience as the new Jefferson rewrite. And as I said at this year's Commencement, this group is as talented as any in our collective institutions' history.

If you want to see how the new rulebook is playing out, take a look at the story about our Celebration of Innovation. I'm blown away by our students and their projects-from cookbooks to vaccines, from architecture to science, from interdisciplinary collaborations to industry

partnerships. There are no boundaries, no limits, and no turning away from challenges.

With all the changes brought by the pandemic, our students never missed a beat. In fact, they flourished-and had fun along the way. They have a lot to be proud of-our students are creating the history of the future! **J**

Stephen K. Klasko, MD, MBA President, Thomas Jefferson University CEO, Jefferson Health











For higher ed, Covid19 disrupted—or maybe

accelerated-thinking about the future of work,

revealing the primacy of skills like creativity and

saw this trend before the pandemic, so naturally

adaptability and constant learning. Jefferson

changed the curriculum to weave creativity

For the inimitable Farai Simoyi, director of

Fashion Design, change is something to embrace

(p 36). "I think sometimes people want to make

a switch, start a new project, or go into a new

career," she says. "Why wait? Life is too short-

throughout all courses (p 52).

the time is now!"





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"Change is good," observes Allen Sirkin

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This issue of *Jefferson Innovator* finds hope and even fun in all kinds of change. For Aaron Ulland (p 28), change means conquering "the beast." His life was turned upside down by a stroke that paralyzed the left side of his body. But in a study seemingly out of a sci-fi story, Jefferson researchers are changing his odds by implanting an electrode in his brain that's returned movement to his arm.

For the students at this year's Celebration of Innovation (p 42), change is about new solutions, putting novel ideas into practice to make the world a better place.

'64, H'10, on page 58.



advance their careers.

Create What's Next

Thomas Jefferson University is crossing disciplines to bring unrivaled innovation and discovery to higher education. Through boundary-breaking collaboration, research and hands-on experiential learning, we equip graduates with leadership and analytical skills shaped for an accelerated job market.



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Ten colleges, four schools and multiple campuses

comprise our National Doctoral Research University

that offers everything from traditional undergraduate

programs to programs for professionals who want to

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The Provost's Column

On May 13, 2021, Provost Mark Tykocinski, MD, shared the following comments at the 197th commencement ceremony *for undergraduate students* at The Mann Center for the Performing Arts in Philadelphia, Pennsylvania. His remarks appear here, adapted, in lieu of his usual column. A video of his address is available at Jefferson.edu/commencement.

Our unfamiliar world of the moment has unfolded in a most surreal way these past 15 months, and the post-pandemic path forward is at best hazy. As we emerge from this haze, we struggle to contextualize, and to chart a new reality individually and institutionally. Our unsettled feelings emanate from more than a pandemic. There's also the backdrop of the technological whirlwind of our digital age and the concomitant societal upheaval and political fracture. Ahead lies a wondrous, digitallypowered frontier, yet one in which everything moves at zoom speed. Immediate results are the name of the game. A sense of never-ending urgency pervades.

What inner quality can we tap into in order to navigate the post-pandemic haze? Well, one that's easily within your grasp: patience. That's my simple message to you today, class of 2021. Learn to be patient, and armored with patience, be open to playing the long game.

As a scientist, my first illustration comes from science and the lesson that more often than not, important science takes time to unfold. Dr. Bernard Lown, my personal lifetime mentor, whom I met at Harvard

50 years ago, passed away this March, just months short of turning 100. Lown's passionate advocacy for physician social responsibility earned him the 1985 Nobel Peace Prize for flagging nuclear proliferation as an existential threat to mankind However, there was another dimension to this extraordinary, multidimensional man, one that should have earned him a second Nobel Prize, this one for medicine. Together with Dr. Samuel Levine, Lown developed the cardiac defibrillator, a device designed to shock hearts back into rhythm when they go off the electrical rail. The defibrillator fundamentally transformed the world of cardiology, but its impact in the world of

> medicine didn't end there. Viewed through an intellectual history lens, Lown's mid-20thcentury invention seeded a more fundamental meme: machines and organs conversing, a mechanical device restoring things gone havwire in the body. There are almost endless downstream possibilities. But they take time to unfold. Here's one. A few months ago, a team of Jefferson neuroscientists developed a technological marvel, a device that translates thoughts in the brain into mechanically actuated movements. The patient was a

43-year-old man who suffered a stroke, leaving his left arm limp. Our neurosurgeons implanted an electrode array into his brain that could detect his thoughts and translate them into action. All he had to do was think of moving his left arm and a computer

process actuated an exoskeleton that moved his arm and fingers.

Within three months, this patient was able to perform all kinds of thought-initiated, exoskeletonpowered tasks, such as picking up a pill bottle from one tabletop and delicately transferring it to another.

The evolution is obvious. Once a Lown-Levine duo establishes that a machine can talk to an organ, it's only a matter of time before a Jefferson team flips the paradigm and finds a way to make an organ talk to a machine. This journey from machineto-organ cardiac defibrillator to an organ-to-machine braincomputer interface took more than 60 years. This is scientific patience.

So, class of 2021, emerging from a pandemic, we must imagine and then realize our highest aspirations, even if this demands patience. Instant results often lead to impulsive, even destructive, action. Instead, learn patience, aspire to the heights, and then persevere. Play the long game.

Go forth and make Jefferson proud. Congratulations. Onwards and upwards. **J**



Mark L. Tykocinski, MD Provost and EVP for Academic Affairs Thomas Jefferson University Anthony F. and Gertrude M. DePalma Dean Sidney Kimmel Medical College

Correction: Thanks to our alumni, including our legendary 1970 team, it was brought to our attention that two of the archive images we originally published were incorrect. We sincerely apologize for this error and have updated these photos as of October 5, 2021. A correction will also be included in the next issue, and there will be additional photos to honor the 1970 champions.

A Glorious Stride

The 1970 Men's Basketball National Championship

Editor's note: Like so much else in 2020—concerts, weddings, sports, life in general celebrating the 50th anniversary of the Rams' NCAA championship was put on ice. However, as part of the Class of 1970 "virtual" reunion hub, the Office of Alumni Relations revisited the championship season with Great Moments in Rams History, featuring an online conversation with head coach Herb Magee '63, team captain John Pierantozzi '70, and Robert Cunningham, director of athletics communications. Then on March 16, 2021, the Alumni Relations team aired a re-watch of the championship game on its YouTube channel. The following quotes are pulled from these programs. In this issue of *Jefferson Innovator*, we took the Time Machine back to 1970 to admire those golden champion Rams.

<u>o</u>

f you want the drama the one shining moment, the lastsecond jumper, the fullcourt chase-then-block to swing the game—the champion 1970 men's Rams aren't the team for you.

This gilded group glided effortlessly past the competition, a one-in-a-million narrative cousin to the '92 U.S. Olympic squad or the '96 Bulls or the assembled Avengers in *Endgame*. Verily, these young men snatched the loom from the Fates to weave their own destiny.

You wouldn't have guessed it going into the 1969-1970 season. They weren't on any of the coaches' or sportswriters' polls. The team was guided by a young Herb Magee '63, only 28 years old and in his third season as head coach. The tallest player stood about 6-foot-5. *Sports Illustrated* called it a "patchwork team," presumably a pun referencing the school's then 39-letter name: Philadelphia College of Textiles and Science.

And the Rams tripped out of gate, starting the season 1-2 after falling to Villanova and Mount St. Mary's.

Of course, Sham briefly pulled ahead of Secretariat at the start of the Belmont, before Big Red dusted the competition and rewrote the record book.

So too the Rams soon found their glorious stride. They steamrolled 28 straight, including 22 on the road, to take the title. And it was never close. They blew out almost everyone they played, with an average margin of victory a devastating 24.5 points.

Looking back, team captain John Pierantozzi '70 points to a midseason victory over defending champs Kentucky Wesleyan as the turning point. That Panthers squad came to Philadelphia ranked No. 2 in the country and heavily favored. Taking the court in the Palestra, the Cathedral of College Basketball, the Rams "took them apart," recalls Pierantozzi. The Rams won 79-58. "From that point, we realized we could

compete with anybody." When you watch footage of the team from back then, the first thing that stands out is the court. There were no 3-point lines, and no 7-footers, so the hardwood appears absolutely cavernous. Then you see it. These Rams are fast. They're coordinated. And they don't stop moving.

As David Foster Wallace might put it, their movements are "lithe rather than athletic." They glide, more like Flyers than 76ers. Everyone hits their mark. Passes are crisp. Knees are bent, palms up, hands active. They follow the ball, box out, and jump the passing lanes.

The team is disciplined, and relentless.

These days Magee is hailed as the "Shot Doctor," lending his singular expertise to NBA pros like Jameer Nelson, Evan Turner, Malik Rose, and even Hall of Famer Charles Barkley. But it was his commitment to defense that won it all.

Legend has it Magee bought a few \$1 pamphlets written by then-Army Coach Bob Knight outlining how to teach defense. He wove Knight's drills into his practices, instilling discipline and preaching hustle. These boys wouldn't be outworked.

Magee laughs now. "One day Jim McGilvery (class of 1970) comes to me and says he added up all the suicides [a high-intensity sprinting drill that consists of running to multiple progressively distant lines as fast as you can] I made the guys run that year. He said it was over 50 miles!"

Magee says he's always tried to coach his players the way he would want to be coached himself. That's to say: "Let them play. Let them show what they can do."

The ball would zip around, so everyone got a touch. And when you touch the ball, you get involved—and when you get involved, you don't mind playing defense.





The Rams met the moment.

Thirty-two teams competed in the 1970 NCAA College Division Basketball Tournament, played in Evansville, Indiana, known colloquially as "River City." The spotlight was on, too, as it was the first time the tournament would be featured on national TV.

The Rams met the moment. They won by 27 over Youngstown, 18 over Ashland, 48 over American International, and 16 over Cal Riverside, before the title game with mighty Tennessee State.

A Vegas favorite, the muscular Tennessee State Tigers sported future NBA pros Lloyd Neal and Ted "The Hound" McClain.

On Friday, March 13, 1970, under the sign of Pisces and before a capacity crowd of 5,748 and a national audience, the Rams and Tigers tipped off for glory.

Textile grabbed the lead in the first minute on a sweet jumper by

Pierantozzi. They never looked back, cruising to a 40-27 lead at the half. Tennessee State's McClain gave it a strong second half to pull within 66-62 with 4:20 remaining. But Pierantozzi made a key defensive stop to spring an 8-0 run, sealing the win. The final score was "close," 76-65.

It was clobbering, but it was beautiful in the way that all excellence in sports redefines the notion of what's humanly possible. The Rams starting five played all 40 minutes, everyone scoring between 19 and 12 points, forever enshrining themselves in Textile, now Jefferson, lore.

The City of Brotherly Love, always hungry for a champ in any sport, welcomed the Rams home with a parade to the mayor's office.

When Magee and the team returned to Henry Avenue, campus buildings had been renamed (via poster board, paint, and brush) in honor of the five starters: Jim McGilvery, Mike O'Rourke, John Pierantozzi, Carl Poole, and Bruce Shively.

In 2006, Magee told ESPN, "I remember saying at the time—and not trying to be cocky—'That was pretty easy." **J**





Celebrating the Class of 2021

Graduating students reflect on their time at Jefferson as they look ahead to bright futures.

BY MIKE BEDERKA



Alexandra Leto, MD, Sidney Kimmel Medical College

Coming into her fourth year of medical school, Alexandra Leto remained unsure about what area she wanted to specialize in for residency. That changed after her work as director of the Jefferson COVID-19 Student Volunteer Initiative.

As part of this multifaceted volunteer initiative, she manned the buzzing phones during the initial COVID-19 surge. Leto and other students helped virtually triage patients and assist them in transitioning office visits to telemedicine, provided current COVIDrelated info to the public, staffed the Jefferson employee hotline, and participated in vaccine administration. Leto called it an honor to vaccinate some of the first ICU nurses this past January.

Amirah Hutchinson, BS in Fashion Merchandising and Management

Tragedy almost sidetracked Amirah Hutchinson's Jefferson journey. Her father unexpectedly passed away from a massive heart attack on Christmas Day 2019. Support from faculty members, especially Nioka Wyatt, Juliana Guglielmi, and Camille Avent, helped her to overcome the initial grief, she says. These "core three" provided valuable guidance and opportunities at Jefferson as well.

Along with participating in the study away program in Paris and the New York immersion program, Hutchinson worked at New York, Philadelphia, and Capitol City Fashion Weeks, where she assisted fashion leaders like Grayling Purnell, David L. Turner, and Anthony Williams. These types of experiences landed her an internship at Gucci last year. Hutchinson instantly impressed the managers, and they offered her a full-time position as a client adviser.



Ahmed Meselhy, MS in Sustainable Design

Improving life for his community became the focal point for much of Ahmed Meselhy's time at the University. He worked on a project to plant more trees in the area and fight climate change, organized a United Nations Association panel on happiness and well-being in cities, and spent months developing a sustainable air conditioner that uses 72% less energy than traditional models. He presented his prototype to Jefferson's Innovation team, and they helped him file a provisional patent for the invention.

In addition, Meselhy, winner of the University's Excellence in Sustainable Design Award, regularly worked with the Office of Global Education and Initiatives to help Jefferson students from around the world get settled and feel more comfortable in Philly.





Megan Loyer, BS in Nursing

Preparing to be a nurse during the pandemic helped FACT-2 student Megan Loyer become a stronger healthcare provider. Loyer always believed she would enter healthcare, but after watching her sister and father pass away, she knew she wanted to focus on palliative and hospice care nursing.

At the University, Loyer served as president of the Jefferson Nursing Student Government Association. In this role, she partnered with Philabundance for a food drive and spoke at the opening of the Dixon Campus of the Jefferson College of Nursing. Loyer says she will look back fondly at her time at the University, especially the tight connections she made with her classmates and the nonstop support she received from professors.



Bendriel Oniyama, BS in Law and Society

Bendriel Oniyama's degree isn't just for her. The law and society student says she owes much to her family immigrants from Liberia—who pushed and inspired her during the pandemic.

As a senior, she founded Jefferson's Law and Society Honor Society, which collected essentials for Philadelphia's unhoused population, raised money to help fund LSAT courses for peers, and organized several roundtables. Oniyama is currently applying for a Fulbright Scholarship. Other post-grad plans include either attending law school or applying for a foreign service position in the State Department.



Justin Merced, MS in Biopharmaceutical Process Engineering

After serving in Iraq and Afghanistan as a combat medic and infantryman, Justin Merced returned to civilian life and discovered a love for biology while attending community college in Massachusetts.

The Army veteran went on to earn his undergraduate degree in biological sciences from Rutgers. After working in the industry for several years, he enrolled in Jefferson's biopharmaceutical process engineering program at the Jefferson Institute for Bioprocessing (JIB), where he has now been offered a position as an associate scientist.



🔺 MD/PhD student Noor Shaik.

Distressing COVID Scenes From India Inspire Medical Student to Take Action

Noor Shaik, an MD/PhD student, moved with her family to Bucks County from Bangalore, India, when she was young. With much of her extended family still living in India, the stories of resurgent, COVID-related anguish struck a very personal, distressing note.

Day by day, Shaik watched as the situation worsened in India, but her tipping point was seeing the story of a mother who lost her son to coronavirus while en route to a third hospital after being turned away from two others. Shortly after, on the morning of April 24, Shaik spoke with her grandmother in India.

"After we hung up," Shaik

recalls, "we asked ourselves,

'Are we going to shed a few

Her P.S. read, "Also, I'm sure you've been seeing how COVID cases have skyrocketed in India over the last few days. I'm wondering if you know whether there is any way to collect PPE to donate to facilities and charities there?"

Lau then reached out to Anthony Moscatelli, associate vice president of supply chain at Thomas Jefferson University Hospital (TJUH). The results have been nothing short of amazing.

Tapping into their social networks of friends and associates at Jefferson, other local medical schools and entities, and social workers in Bangalore, they launched a relief effort. In addition to TJUH's donation of 900 pounds of PPE, including some 20,000 N95 masks, 4,000 gowns, ICNA Relief – Shams Clinic donated tracheostomy care kits, catheter suction kits, nasal



🔺 Nafees Norris.

tears and move on or are we

going to do something about

That night, Shaik's mom

adviser, Dr. Wayne Bond Lau.

urged her to email her student

this?'"

cannulas, adult heated passive circuits, and more PPE. Shaik's efforts were picked up by major media outlets like the *Washington Post* and caught the eye of celebrities on social media like Ellen Pompeo from the show *Grey's Anatomy*.

Growing the Next Generation of Therapies

Nafees Norris still remembers cutting his finger when he was seven years old. Rather than running home for a band-aid, he watched the bright red droplet, full of red blood cells, white blood cells, platelets, and clotting factors, beginning their work to patch the gash in his finger.

It was the beginning of what would become a drive to learn about the natural world, the seed to become a scientist.

Norris became the first in his family to go to college, the only African American man in his biology program at Neumann University, and the first African American in his graduate program at Jefferson Institute for Bioprocessing (JIB). He's currently working towards a master's degree, with an eye toward a PhD. Norris' college journey

wasn't an easy one. From near failures and periods of homelessness, he considered dropping out more than once.

But he stayed with his studies, buoyed by teachers who believed in his potential.

With every challenge he faces, with every step forward, he thinks of students like him who might follow, and what it





means to pave that path. He's paying it forward by mentoring younger students, speaking in schools and churches about his story, and helping launch a scholarship award for high school seniors who are underrepresented in STEM fields.

"I've seen many kids like Nafees," says Cameron Bardliving, PhD, director of operations at JIB. "Very bright kids, who don't get that opening. It's not just exposure to science and math that will help kids succeed. The change has to be structural."

Leaders at Jefferson and JIB are working to create a program for developing the next generation of leaders in the African American community to go from MS to PhD and MBA, establish A Severino Alfonso and Loukia Tsafoulia.

Professor Tsafoulia and Alfonso's Synesthesia Interactive Installation, known as "The Blob" being assembled.

partnerships with industries, and fast-track them to executive-level positions.

How Can We Link Humans, Machines, and Spaces Within the Built Environment?

Researchers Loukia Tsafoulia, assistant professor in the College of Architecture and the Built Environment (CABE), and visiting assistant professor Severino Alfonso are using the emergence of big data to investigate physical space as an informational environment in which architects, planners, and designers can develop strategies in response to social, experiential, and environmental considerations. One of the main questions they are trying to answer is,

What is the process of linking humans, machines, and spaces, and how to navigate it to better understand the human-nonhuman interactions that occur within our built environment?

Tsafoulia's research examines transiency in its various social, performative, and tectonic expressions, and focuses on the notion of flux as a productive force at multiple scales. This includes the human body's interactions with the objects and environments it negotiates, as well as the social body and its movements-both forced and voluntary—through physical spaces. Alfonso's research explores the digital realm of design and theory, investigating the relationships between the instrumentality of building systems, the aesthetics and politics of software, and the digital technologies' impact on the built environment.

Their combined interests both theoretical and applied meet in the mission of the newly minted Synesthetic Research and Design Lab, a collaborative research and prototyping platform where interactive design, art, and emergent health sciences meet.

Their research brings together traditionally disparate fields, and they've learned a lot by studying the work of scientists in the fields of architecture, interior, and urban design. Their research brings together a diverse team of experts to shape novel design thinking methods and open-ended experimentation.



A Professor Tsafoulia and Alfonso's Synesthesia Interactive Installation, known as "The Blob.

"Architecture and design fields have historically been confronted with dipoles such as theory versus practice, objectivity and subjectivity, human and machine, and mind and body," says Tsafoulia. "Our interest lies in the possibilities of cutting across and smoothening these distinctions."



phone camera or visit jefferson.edu/synesthesia LGBTQ+ Curriculum Gap Leads to New Program

Several years ago, a few occupational therapy students came to Dr. Audrey Zapletal, director of the MS in occupational therapy program and assistant professor, voicing concerns about a gap in the curriculum, which addressed different backgrounds and body types but did not account for gender identity. That candid feedback inspired her and colleagues to develop a standardized patient experience that included members of the trans community within the simulation curriculum. Zapletal soon partnered with Dr. Karla A. Bell, associate

Pictured left to right, Drs. Audrey Zapletal, Karla A. Bell, and Tracey Vause Earland.

professor of physical

therapy; Dr. Susan Toth-

Cohen, director of the post-

therapy doctorate program;

and Dr. Tracey Vause Earland,

occupational therapy, to create

professional occupational

associate professor of

the Faculty/Staff/Clinician

Development Program for

Sexual and Gender Minority

Education and Training (SG-

MET).





"There are other educational workshops," says Bell, "but nothing this comprehensive as an interdisciplinary/ interprofessional development opportunity."

Fashion merchandising and management assistant professor Juliana Guglielmi knew she couldn't pass up the opportunity to gain tangible and real-world knowledge of the inequities existing among sexual and gender minorities.

Irene Jackson, director of clinical practice for the new MS in speech-language pathology program, joined SG-MET to enhance her knowledge and learn strategies to make sure her program created an inclusive environment for students, faculty, and staff from the start.

Zapletal says she sees these "a-ha moments" all the time during the program. They often come in the way of simple, but important, efforts. For example, on the first day of class, Bell introduces herself with her pronouns and has her students do the same.

Going forward, the team wants to grow enrollment for SG-MET—and they feel poised to do so after the first two successful years.

"It's a safe space to share perspectives, resources, ideas, and Jefferson policies. That's so powerful," Zapletal says.



FABRIC WINS



Three Jefferson Students Take Prizes at Design Competition

BY CINDY LEFLER

he complex textures of Jacquard are literally woven into the fabric of history, with its origins dating back to sixth-century Italy. Today, three students in the Textile Design program at Thomas Jefferson University have weaved their way into the history of fabric with wins in the 2021 Virginia Jackson Design Competition. The students have taken top prizes in the Jacquard category of the national contest that recognizes the most talented students in the field of textile design. First place went to Kristen Tynan, MSTD, '20; second place went to Emily Robinson, MSTD, '20; and honorable mention went to Olivia Grasso, BSTD, '22.

The competition was founded in 1995 as the International Textile Alliance Design Award and was later renamed to honor the late Virginia Jackson. Over the past decade, Jefferson students have consistently won top prizes in the annual competition.







▲ Pictured top to bottom, Emily Robinson, Olivia Grasso, and Kristen Tynan.

This year's first-place winner, Kristen Tynan, a Textile Design student, spent two months as an artist-inresidence in Iceland teaching herself how to weave.

"Learning how to use a floor loom was challenging, but it led me to where I am today," she says.

Tynan, who is from New Jersey, sought out Jefferson's program because it provides both creative and technical training. She also appreciates the support and teamwork both within her cohort community and with other departments.

"We work in shared, collaborative spaces where you could always ask a professor or fellow colleague for advice or feedback," she says. "I also really love collaborating with other departments, especially fashion. It's exciting to work with other creatives and to be part of the technical translation needed to bring their vision to life."

Tynan is looking forward to her next project—working with a group of Jefferson furniture students to develop a neurodiverse-friendly textile for a chair design.

Second-place winner Emily Robinson, originally from Austin, Texas, chose Jefferson for its emphasis on the technical aspects of design and because it offered an MS rather than an MFA. "The best part about studying at Jefferson was the community that formed in the Textile Design studio, as well as the access to amazing equipment," she says.

Robinson is currently working on commission pieces in her home studio.

Honorable mention winner Olivia Grasso says she appreciates Jefferson's smaller campus and closeknit community, which provides the opportunity to work closely with professors and peers.

"The best part of my studies is the creativity that is consistently encouraged and inspired by professors and peers, as well as the challenge of learning new programs and equipment in the studio," she says.

Grasso, a Jersey girl who lives close to the beach, garnered her award for a design that was inspired by the light reflections on the ocean. **J**



Industrial Design Student Puts Best Foot Forward with New Balance

Concentrating in soft goods, Alexandra Grant earned a spot in the competitive internship program.

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BY MIKE BEDERKA

s a high school student, Alexandra Grant always loved her art classes, but she didn't know how to channel this passion into a career. A university tour her senior year gave her some much-needed clarity.

The guide happened to be an industrial design major and proved to be the ideal spokesperson for the program. She explained the versatility that came with this degree, and Grant knew she had found the perfect creative outlet. "With industrial design,

you can work in medical, sustainability, lighting, furniture, and more," says Grant, a native of Skaneateles, New York. "You can design toothbrushes if you want."

This invaluable conversation led Grant to attend Jefferson, and years later, set her on a path to be one of 30 students selected internationally to participate in an intensive Pensole Footwear Design Academy internship at New Balance headquarters in Boston.

Not only that, but she was also one of just two women chosen for the three-week program. (The industrial design field traditionally skews male.)

"It's a point of pride," the senior says of the accomplishment.

Grant's interest in footwear began after many intriguing close encounters with the



nearby textile design studios in Hayward Hall.

"Every time I would walk by to go to the woodshop, I'd always see all their yarns and everyone weaving," she says. "It fascinated me, and I thought, 'How can we bring those two things together?'" Grant decided to zero in on soft goods design-one of the handful of concentrations within the industrial design program. Others include furniture design, lighting design, design for healthcare, user experience design, and

These sequences of three, three-credit courses help to differentiate industrial design at Jefferson, notes Mark

Havens, associate director of the undergraduate program.

"One of the great things about industrial design as an occupation is that it's so broad," he says.

"Concentrations allow students to gain a deep understanding of a specific area of the profession that interests them. The concentration sequence is embedded in our standard curriculum, which means they get this additional level of expertise without needing to take any additional credits."

It was in one of these soft goods courses that Grant heard about the Pensole World Sneaker Championship. She entered and became a finalist

design visualization.



in the color and material design category along with fellow Jefferson student Elena Krupicka, who ended up winning the title.

While Grant missed out on the top spot, the process revealed additional opportunities through Pensole, including the internship at New Balance. She submitted an original shoe concept and design online (see above) for consideration in the highly competitive program. "The site kept crashing because so many people were applying," she recalls.

A short time later, Pensole offered her one of the 30 coveted spots. Grant spent three weeks from January to February 2020 collaborating with experts and top design students from around the world.

For the project, teams of three spent up to 14 hours a day researching, designing, problem-solving, and pitching a performance and lifestyle at Foot Locker. "I learned so much from the experience," says Grant,

New Balance shoe to be sold

who hopes to enter the performance material design field after graduation in May. "I gained so many connections, and it opened my eyes to this entire industry, especially the material and color realm."

Having previous internships with luxury home furnishing company MacKenzie-Childs and medical device firm Hillrom, as well as taking part in Jefferson's fast-paced annual industrial design week-long sprint competition, Grant was able to excel at New Balance.

"I came in knowing not just how to work hard but also how to work smart," she says. "That helped me get the maximum out of the opportunity." **J**

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MATTER **BY EDYTA ZIELINSKA**



One stroke patient's journey to help researchers understand if brain implants connected to a robotic arm brace can help him ... and eventually other survivors ... restore movement.

magazine.jefferson.edu //

he morning of January 19, 2019, Aaron Ulland got up in the middle of the night, took a few steps, and collapsed. He thought that he might have thrown out his back, but he couldn't get up. The next morning, his mother, Holly Ulland, found him on the floor next to his bed. She noticed, terrified, how his left arm dangled at his side. At only 39 years old, Aaron had suffered a stroke.

Stroke in young people like Aaron has been on the rise in recent years. The majority of strokes occur in adults over the age of 65 and lead to permanent motor disability in over 80 percent of cases, with half of all survivors requiring longterm care. And the numbers are staggering. In the United States, it's estimated that someone has a stroke every 40 seconds. Every year, 17 million people worldwide have a stroke, leading to permanent disability more often than any other medical condition.

That morning, Aaron's life, and Holly's, changed completely. As EMTs loaded Aaron into the ambulance, he turned to his mom to say something. "But his words came out garbled," says Holly. "He just had tears rolling down his face." She feared he wouldn't be able to speak again. The stroke, which hit at least two major parts of his brain, had paralyzed Aaron's left side and made it difficult to speak, swallow, walk, and see.

Although intensive rehabilitation over two months

matter

mind over

30

It's estimated that someone has a stroke every 40 seconds.

helped Aaron regain many abilities—he was able to walk short distances with a cane, to speak and swallow-he, like so many other stroke survivors, lost his ability to work and a good deal of his independence. He didn't know it then, but in two years Aaron's life would change dramatically again. He would become the first person with this common type of stroke to be implanted with brain electrodes-a brain computer interface (BCI)--that would send signals from the brain to a robotic arm brace designed to move his weaker left arm.

BCI implants were first pioneered in humans some 15 years ago. Patients paralyzed from the neck down were able to use their thoughts alone-as read by these brain-implanted electrodes and interpreted by a computer-to power electrical devices such as a computer cursor or a robotic arm or chair. These patients' spinal injuries had broken the connections between their brains and bodies but their brains were otherwise healthy. In stroke patients, however, parts of the brain go dark and die.

Could brain implants connect with still-living neurons near the area impacted by stroke, and could they learn to control movement? Would Aaron's brain be able to control a fitted, robotic brace to help him improve his fine-motor control of his weakened arm? Researchers at Jefferson's Sidney Kimmel Medical College aimed to find out through the Cortimo trial.

Conquering the Beast

After Aaron's stroke in 2019, two months of inpatient rehab helped him walk again, but not very far. "During his first day of rehab, he took a total of 12 steps, and collapsed back down, exhausted," recalls Holly. He got a wheelchair for use at home, but it was too big to navigate inside the house. Holly dubbed it "the beast." They'd use the chair for longer trips, like walking their dog, Gator, around the neighborhood.

They'd start their walks with "the beast" at the end of their driveway so Aaron could walk to it. Each day, Aaron asked his mom to move the wheelchair a little bit farther—to the fence post, then the stop sign, then down the street. Until one day he walked the loop of their neighborhood—1.2 miles without needing the wheelchair once.

"Aaron's drive to improve, to succeed, to become more independent, that tenacity was such an important aspect to the success of this trial," says the lead researcher of the Cortimo







Top and bottom photo: Dr. Mijail Serruya, MD, PhD, working with Aaron to control the arm brace. Middle photo: Drs. Mijail Serruya and Robert H. Rosenwasser. trial, assistant professor Mijail Serruya, MD, PhD, who was part of the team that had implanted the first human with brain implants 15 years ago.

The pre-screening for the trial was slated to begin in March 2020, with brain-implantation surgery in April. But the plans came to a screeching halt as Philadelphia began to shut down. Schools closed and all non-essential staff had to stay home to slow the spread of COVID-19. All clinical trials at Jefferson, including the Cortimo trial that Aaron had signed up for, were halted.

Time to Reboot

"Aaron was so worried," recalls Holly. "That whole summer, he kept saying 'I hope I don't lose the trial." By the middle of the summer infection rates had slowed, and the restrictions on clinical trials began to lift. The team re-booted their plans. Soon, the team had set a new day for surgery—October 23.

Despite the difficulty ahead, despite knowing that he'd have brain surgery twice—once to implant the brain electrodes, and once to remove them three months later—Aaron had become excited by the possibilities that the clinical trial offered him. He'd have the chance for additional intensive rehabilitation through physical and occupational therapy and learn to use a robotic brace fitted for his weakened arm.

The brace, custom-made for Aaron, would be his to keep post trial. More importantly, his participation would inform future treatment for stroke



▲ Neurosurgeons Drs. Ashwini Sharan, Robert Rosenwasser, and Chengyuan Wu during Aaron's procedure.

patients like him. "Aaron knew this trial stood to help lots of other people with stroke one day. That really mattered to him," says Holly.

The Road to Brain Surgery

While Aaron got ready, so did many other experts working on the Cortimo project. Three weeks before surgery, Aaron came in for an fMRI to locate the exact location where the brain implants should go. Although the stroke had damaged part of Aaron's brain, the team was searching for areas of brain tissue that might still have enough signal to control his left arm via electrodes.

over

mind

32

MRI technologist Jamie Noonan sat in the observation gallery, watching the brain scans—dark for many cycles-suddenly light up with activity. They found areas of brain tissue where electrodes could be implanted. With these scans and others, neurosurgeon Chengyuan Wu, MD, developed the specifications for a 3D-printed replica of Aaron's brain, created by Jefferson's Health Design Lab. The scan and the 3D replica would help the surgical team- Dr. Robert H. Rosenwasser, the Jewell L. Osterholm, MD Professor and Chair of Neurological Surgery and president of Jefferson's Vickie and Jack Farber Institute for Neuroscience; Dr. Ashwini Sharan; and Dr. Wu-plot out and prepare for the surgery.

Devon Middleton, PhD, and

Mind Games

The day of surgery finally arrived: Friday, Oct. 23.

Holly was a few floors away nervously waiting for updates from Dr. Serruya and the team. "He's grown up. But he's still my little boy," Holly says.

The four electrode arrays were successfully placed, with wires leading through Aaron's skull into two ports externally visible at the top of his head. His three-month, intensive journey to answer the clinical trial question had begun.

Every day, Aaron, Dr. Serruya, and his team of engineers would meet at the residential hotel suite near Jefferson where Aaron stayed. At the beginning of the day, an electrical warming blanket was placed on Aaron's left arm, to release that abnormal tension and relax the curled fingers of his weaker left arm. Then, Dr. Serruya would plug one of the ports sticking out of Aaron's head into a massive computer that would record the signals from individual neurons just next to his stroke.

Now the real work had begun. "This is like learning to walk, but learning it every day, while the floor shifts under you and the laws of gravity change," says Dr. Serruya.

Before Aaron could learn to control the robotic brace, the computer algorithms had to learn from Aaron—using artificial intelligence (AI). The electrodes recorded the "voices" of Aaron's neurons in his brain, as Aaron controlled the movement of a small dot or characters in a simple computer game—with his thoughts.

We couldn't have gotten here without Aaron's altruism...

Then, the team would pinpoint the individual neuronal cells in Aaron's brain with the strongest and clearest voice. They were looking for cells that "fired" or activated in time with Aaron's intention to move—a task made infinitely faster with the help of machine learning approaches.

The Breakthrough

Once the researchers had pinpointed the right neurons and trained the computer algorithm, it was time for Aaron to work with his very own engine-red motorized arm brace—first using his residual arm muscle to work the brace and then, finally, bypassing the muscle to control the brace with only his brain.

"When we bypassed the brace's muscle control with the brain control coming from the implants, it worked," says Dr. Serruya. "Aaron said it felt natural. That day was a breakthrough."

There were other times, though, that it seemed as if the neurons the research team chose to be the day's main "voices" weren't the right ones, and Aaron struggled to control the arm smoothly. "If the brace does not respond quickly enough, he fights it," recalls Dr. Napoli after a difficult week. "As soon as you put the brace on, it frustrates him when it doesn't always do what he wants." What the team soon discovered was that the brain signals they were recording in Aaron, a stroke patient, were quite different than what they were expecting based on years of research in patients with spinal cord injuries. They had to change the algorithm design to give Aaron better and more consistent control.

"What we're studying is much more relevant to all of the people who live with disability from stroke. But for that reason, it's also more challenging," says Dr. Serruya.

With wireless implants on the horizon, and with what Dr. Serruya and the team have learned from Aaron, it's conceivable that in the next decade, patients like Aaron could get fully implanted and wireless devices (rather than Aaron's, which still required a wired connection). They would train hard with an AI specialist and team of occupational and physical therapists, and then go home with a more natural control of a motorized brace that restores mobility.

The What Ifs

A different possibility though the Cortimo trial wasn't designed to test it directly—is even more intriguing. Could an implant, coupled with intensive training and rehab, help retrain a portion of a stroke patient's brain to form new connections needed to improve mobility? Could there be more sustained improvements in mobility even after implants are removed?

One afternoon near the end of the trial, after Aaron's arm had been resting under a heated blanket to relax his muscle tension, Dr. Serruya stood a few feet away. "Let me see your arm," he said to Aaron. For the first time in nearly two years, Aaron instinctively lifted his hand and extended his fingers toward Dr. Serruya, completely unaided. Dr. Serruya looked at Holly, who was sitting nearby. "I was tearing up," she said. "I haven't seen those fingers extend like that in two years." Not quite believing what they saw, Dr. Serruya asked Aaron to do it again. And he did, just like that, as if his brain was finding a way around the abnormal muscle contraction to control his arm again without the brace. "Future studies would need to

explore more definitively," says Dr. Serruya. "What we observed lasted a few moments, but what if it could be patterned into the brain and last longer? We have a lot more to explore. And we couldn't have gotten here without Aaron's altruism, his persistence and commitment to helping others."

 $\overline{\mathbf{v}}$



Professor Fashions Unique Coat for Pioneering Jefferson Stroke Patient

BY MIKE BEDERKA

nne Hand can't help but laugh when she hears people refer to fashion designers as merely "seamstresses." "All of our students are problem-solvers," stresses the fashion design professor. "That's what we do."

With the emphasis the fashion design program places on problem-solving—along with its dedication to "fashion for all"—it shouldn't be a surprise that Hand jumped at the opportunity to help one person.

In January 2019, 39-year-old Aaron Ulland suffered a stroke and required two months of intensive rehab to swallow, speak and walk short distances with a cane. However, he lost his ability to work and much of his independence. computer interface—that would send signals from his brain to a robotic arm brace designed to move his significantly weakened left arm.

The innovation gave Ulland increased mobility, but the arm brace doesn't fit under a regular winter coat. Here's when the Jefferson research team reached out to Hand for her expertise. She wanted to create a sleeve that provided a greater range of motion. Hand also knew that a traditional zipper might be difficult to use since Ulland didn't have full strength on his left side. But at the same time, she felt the coat must look cohesive even if she had to

"Frankenstein" it together. That's when she tapped her decades of problem-solving skills and savvy. "I sit down and make drawings and think about it in the middle of the night," she laughs about the brainstorming process.

Armed with his measurements and after performing a fitting, Hand settled on a neoprene fabric for the new sleeve. Made of 90 percent polyester and 10 percent spandex for extra give, this material often is used for scuba gear. She also added some Velcro tabs so the sleeve could be adjusted. In place of a front zipper, Hand sewed on a series of magnetic snaps to keep the coat snug.

Hand says she enjoyed the whole creative process and helping Ulland to stay warm this winter. In fact, she could see participating in similar projects to aid people with different abilities.

"Instead of chopping coats apart, maybe we design a coat specifically for the purpose of wearing a device like this or people with other needs," says Hand, adding that Jefferson fashion students have shown greater interest in the product development realm as of late. "We hope to address it more and more in our program."

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Vincent Murphy '12 and Emily Manera '12







Farai Simoyi Brings Her Style to Jefferson's Fashion Program

ake a free-spirited early childhood in Zimbabwe. Add formative years in the bucolic foothills of West Virginia's Appalachian Mountains. Infuse it with a 20-something New York Citythat-never-sleeps attitude. Throw in a dash of grown-up concern about the Earth and sustainability. "And you get Bohemian Appalachian cuttingedge designs by Farai Simoyi." Simoyi laughs when she

describes her avant-garde approach to fashion design, but when it comes to her craft, she is serious—and successful. She has created couture for Beyoncé, Justin Timberlake, Jay-Z, and Nicki Minaj, to name a few. She has established The Narativ House, a concept store in New York that carries ethically sourced artisan brands from across the globe and mentors young designers. And now she has taken on a new role-Program Director and Professor of Fashion Design at Thomas Jefferson University.

"Being a fashion designer will always be the core of what I do, but I feel that in this role at Jefferson I am making the most impact I can make in my life," Simoyi says. "It's really about supporting and encouraging and guiding the future designers of fashion."

Simoyi says she was excited to take on this new challenge in her ever-evolving career—she just didn't know how much of a challenge it would be. She joined Jefferson in September 2020—right in the middle of a pandemic. "It's probably one of the most

challenging things I've ever had to do in my professional career," she says. "How do we teach fashion design over Zoom? When you're a fashion designer you want to use your hands that's how we create, that's how we get inspiration. But the beauty of it is that it really shows how devoted our faculty is and also how committed our students are to learning. So we all bonded together, overcame the obstacles, and figured out how to do it."

At first, there were prerecorded lessons and livestreamed lessons. As the pandemic waned, the program moved into a hybrid format part virtual, part in-person. Eventually, the classes transitioned back into full-time on-site. However, the option of taking classes virtually was still offered because the administration wanted everyone to operate at their own level of comfort.

"It's all about flexibility right now and making sure that everyone is still learning, but still comfortable," she says. Yet, she is eager to have everyone back together in person in the studios. After all, she came to Jefferson to collaborate, to guide, to shape the future of fashion and mold those who will be creating it.

Simoyi's journey to Philadelphia took a long and

To collaborate, to guide, to shape the future of fashion and mold those who will be creating it.

unusual geographic path, beginning a continent away in Zimbabwe and making an extended stop in West Virginia.

"Everybody says, 'how did this African girl end up in the middle of West Virginia?" she says. As it turns out, she is following in her parents' footsteps in academia—both were professors who moved to the U.S. South to teach at West Virginia University. Her father taught chemistry, and her mother taught health sciences.

Simoyi started at West Virginia University as a psychology major, but in her sophomore year switched to fashion design. While the two majors seem academic worlds away from each other, she explains that psychology and fashion go hand-in-hand.

"When you woke up in the morning and you decided to put on that shirt, what made you decide to put that on? Why do you love wearing that specific color? What drew you to that

In my culture, we have zero waste-everything is used when making jewelry and clothing.

particular shirt? There's always a psychology to design and the way that we dress," she says.

After graduating in 2005, she took a leap of faith, packing up her belongings, scraping together enough money for one month's rent, and moving to New York City to find her big break.

"I just started interning, working for free a lot just to get my foot in the door," she says. Almost immediately she landed a job with one of the first mainstream sustainable brands, Threads 4 Thought. From there, she got the big break she was seeking—she was hired to design for Beyoncé's fashion line, the House of Deréon.

That job launched her solo career, one which brought her to the inner circle of global celebrities, recording artists, and fashion industry leaders such as Anne Klein and Rachel Roy. She found that creating style was about merging fashion, music, and culture, and putting inhibitions aside to think and design "outside the box."

And while Simovi creates forward-thinking designs with an eye toward the unconventional, she has always drawn inspiration from her past.

"In Zimbabwe, my grandmother, my grandfather, and my mom and dad grew up in huts in the rural areas. They cooked over an open fire, they herded cattle before and after school. So I take those lifestyle inspirations into my work. When we lived in West Virginia, we were surrounded by the Appalachian Mountains. So being outdoors was inspiration to me. And then right before moving to Philadelphia, I lived in New York City-bright lights, things going a mile a minute-and I took that as inspiration, too.

"I'm really lucky that I get to use such stark contrasting backgrounds; I think that's what makes the work that I do really unique," she says.

Part of her interest in sustainability stems from her African roots.

"In my culture, we have zero waste-everything is used when making jewelry and clothing. We use the cow hide, we use the cow horns, we use the boning. I wanted to bring that and show the craftsmanship that's been around for generations, especially in Africa," she says. "When I first





Encourage them to wholeheartedly believe in themselves.

started working in the industry at Threads 4 Thought, I was just so confused that sustainability was considered something new."

In November 2017, she established The Narativ House in Brooklyn to serve as a place to support sustainability and encourage diversity. Many of the items at The Narativ House are sourced from artisans based in Nigeria, South Africa, Zimbabwe, Kenya, Tanzania, Senegal, Morocco, and several other countries. She plans on expanding the geography to include artisans and products from the Philippines, Mexico, and areas in South America.

Another important goal of the Narativ is to mentor the next generation of designers.

"As a designer myself, I noticed the struggles that young, independent designers face when they're trying to enter the industry. The Narativ House is a platform for them. The industry can be harsh; sometimes you only get one shot to make it right, and the Narativ makes sure that they get it right by helping them with pricing strategy, marketing strategy, designing, sourcing, and branding." She is taking the lessons she Narativ, and bringing them to Jefferson.

"One goal is to offer guidance to students from a unique perspective of how globalization impacts fashion, how to sustain and build brands ethically," she says. Another goal is to instill in her students a sense of selfconfidence.

"My number one objective with my students is to encourage them to wholeheartedly believe in themselves," she says. "I think I am where I am today because I truly believed in myself; I said, 'this is what I want to do' and I went out and did it."

And Simoyi has done a lot, including appearing in *Forbes, Vogue, Fast Company, Newsweek*, and *Essence* magazines; participating in the first season of Netflix's competition series "Next in Fashion;" and touring the world to speak on topics such as global fashion development, sustainability, and diversity and inclusion—just to name a few. One of the mottos she lives by is "the time is now."

"I think sometimes people want to make a switch, start a new project, or go into a new career," she says. "Why wait? Life is too short—the time is now!" That upbeat and confident attitude is what brought her to Philadelphia, where she resides with her husband, Ayo Agbede, and their 3-year-old son, Sunday, and to Jefferson. It was a natural progression from designer to fashion influencer to business owner to mentor, and now to professor. But it took the right fit for her to once again take that leap of faith.

"I learned very quickly that Jefferson is all about community and it's all about collaboration," she says. "After meeting with Michael Leonard, Dean of the School of Design and Engineering, members of the faculty, and some of the students, I said, "This is where I need to be.' And I am so happy to be here."

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– Den Cullen, '74

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CELEBRATION OF INNOVATION

Jefferson As the Makerspace of the Future

BY MIKE BEDERKA AND PETER NICHOLS

he full breadth of students' talents and ingenuity took center stage at this year's Celebration of Innovation. The May 5-6 virtual event highlighted seven diverse projects that featured interdisciplinary collaborations from across the University.

"I am absolutely blown away by our students and their innovation projects," said Provost Mark Tykocinski, MD. "Jefferson is the makerspace for the future for higher education. We're preparing students for tomorrow with the deep grounding in knowledge and skill, and the nimble-footed creativity they need to go out into a very different world—fully prepared for what will come next."

"What I've learned through this process," said architecture student Olivia Birritteri of her collaboration on the Solar Decathlon Design Challenge, "is this is what I'm meant to do. I'm on the right path." Student innovator Madalynne Aubry put it like this: "Jefferson changed my perception of life. It changed a lot of things. It taught me to speak up when things need to be changed. And if I need to ask guestions, to ask guestions."

From creating a cookbook system that teaches people with intellectual disabilities to cook, to COVID-19 volunteering and training initiatives, students transformed their ideas into practice to make the world a better place.

We are that next generation of creativity.

We are creating the future.

- Lauren Kloos BS, Engineering Kanbar College of Design, Engineering and Commerce

Student Innovator Projects

Inclusive Design for Individuals with Intellectual Disabilities

Students collaborate with industry partner Carousel Connections to help young adults with disabilities live independent and healthy lives. The team is creating a cookbook system that teaches individuals how to cook, while imparting job skills that provide opportunities in the food and beverage industry.

Students

Madalynne Aubry

BS, Visual Communication Design MS, User Experience and Interactive Design Kanbar College of Design, Engineering and Commerce

Cynthia Jih

Occupational Therapy Doctoral Candidate College of Rehabilitation Sciences

Faculty Advisers

Michael Barrett, OTD, OTR/L College of Rehabilitation Sciences

Sarah McNabb, MEd, OTD, OTR/L

College of Rehabilitation Sciences

Kimberly Mollo, BFA, OTD, OTR/L College of Rehabilitation Sciences

Elizabeth Shirrell, MFA

Kanbar College of Design, Engineering and Commerce

Creating a Vaccine

Students team up to experience hands-on how vaccines are made at the Jefferson Institute for Bioprocessing and in Center City labs. The students are seeking ways to use creativity for advancements in optimizing processes, scaling up, and making gene therapy affordable, ingestible, and tolerable.

Students Myettia Peck

MS, Biopharmaceutical Process Engineering Jefferson Institute for Bioprocessing

James Walker

MS, Medical Laboratory Sciences and Biotechnology College of Health Professions

Faculty Advisers Sean Chadwick, MS

College of Health Professions

Geoffrey Toner, MS, MB (ASCP) Jefferson Institute for Bioprocessing

Ocean Awakening

Based on one student's personal story and inspired by her fear and love of the ocean, this collaboration unites textile design with fashion. The project brings a collection to life with designs that incorporate two students' visceral response to the ocean's expansiveness and strength.

Students

Vanessa Fath BS, Fashion Design MS, International Fashion Design Management Kanbar College of Design, Engineering and Commerce

Olivia Manning

BS/MS, Textile Design Kanbar College of Design, Engineering and Commerce

Faculty Adviser

Marcia Weiss, MFA Kanbar College of Design, Engineering and Commerce

Solar Decathlon Design Challenge

Supported by the Eileen Martinson '86 Fund for the Undergraduate Capstone Experience Working with partners at universities in China on a team competing in the Solar Decathlon, the Jefferson students are developing a building façade that meets requirements for sustainability, innovation, versatility, and design aesthetics. The final full-scale structure will be on display near the 2022 Winter Olympics in Beijing.

Students

Olivia Birritteri BS, Architecture College of Architecture and the Built Environment

Cevan Noell

BS, Architecture College of Architecture and the Built Environment

Faculty Adviser Kihong Ku, DDES College of Architecture and the Built Environment

Health Passport

A team of medical students in the scholarly inquiry design track collaborated with the Jefferson Center for Autism and Neurodiversity to consider how an interactive healthcare passport could help in emergency rooms. They assisted in interviewing emergency medical professionals and designed solutions for patients with autism spectrum disorder and neurodiversity.

Students

Kathryn Achuck Sidney Kimmel Medical College

Zane Gouda Sidney Kimmel Medical College

Faculty Advisers

Morgan Hutchinson, MD Sidney Kimmel Medical College

Bon Ku, MD Sidney Kimmel Medical College

Wendy Ross, MD Jefferson Center for Autism and Neurodiversity

Tenneco Project

11th annual competition sponsored by industry partner Tenneco

Students from Kanbar's industrial design, engineering, and business programs find solutions that use a Tenneco product in unique and unintended ways. Each team receives a braided substrate material, reimagines a use for it, and competes in real-world pitches to have the product produced.

Students

Lauren Kloos

BS, Engineering Kanbar College of Design, Engineering and Commerce

Clara Miller

BS, Industrial Design Kanbar College of Design, Engineering and Commerce

Ehson Shirazi

BS, Accounting Kanbar College of Design, Engineering and Commerce

Faculty Advisers

Muthu Govindaraj, PhD Kanbar College of Design, Engineering and

Commerce

Michael Leonard, MAEd, MSEd, IDSA

Kanbar College of Design, Engineering and Commerce

Les Sztandera, PhD

Kanbar College of Design, Engineering and Commerce

Matt Umbriac, MBA

Kanbar College of Design, Engineering and Commerce

COVID Volunteering and Training Initiatives

Nursing and medical students work together on volunteer and training opportunities that support Jefferson in COVID relief, including vaccine administration. Trained students have worked in Philadelphia's mass vaccination clinic at the Pennsylvania Convention Center, which gives more than 6,000 daily vaccines.

Students

Lindsay Killian

BS, Nursing College of Nursing

Alexandra Leto Sidney Kimmel Medical College

Faculty Adviser Jennifer Bellot, PhD, RN, MHSA, CNE College of Nursing

Innovation Leaders

Leader of Innovation Medal



Mary Lynne Bercik, BS '90, PMP, PMI-RMP

Kanbar College of Design Engineering and Commerce Appointed, Executive Director of **Global Operations Sourcing**

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Bercik is an expert in new-product launch, supply chain management, and overall innovation. She has more than 30 years of global experience in sourcing and procurement across multiple industries and commodities, and more than 20 years of experience in biopharmaceutical manufacturing. Bercik serves on the Jefferson Institute for Bioprocessing Industry Advisory Board as Idea Founder and on the Kanbar College Advancement Council.



Tracy-Gene G. Durkin, Esq., **BS '83**

Kanbar College of Design, **Engineering and Commerce** Director, Sterne, Kessler, Goldstein & Fox

Durkin is the practice leader of the Mechanical & Design Practice Group and a member of the Trademark & Brand Protection Practice at Sterne Kessler, an intellectual property specialty law firm. She was the first woman elected equity director to the firm and the first woman to serve on its executive committee. Financial Times named her one of the Top Ten Legal Innovators in North America, noting she is "a leading authority on design patents."



Francisco J. Morales, BS '98 Kanbar College of Design,

Engineering and Commerce Chief Executive Officer and Cofounder, 5.11 Tactical

Morales is the CEO and cofounder of 5.11 Tactical, the leading global

supplier of purpose-built apparel, footwear, and gear for first responders and military personnel. Many of the patents held by 5.11 have been awarded to Morales. At age 30, he became a member of YPO, the global leadership community of extraordinary chief executives, and he is a member of Beta Gamma Sigma, the International Business Honor Society.

The Rieders Family

Fredric Rieders, PhD '52 (awarded posthumously)

Jefferson College of Life Sciences

Fredric Rieders was a pathblazing and world-renowned forensic toxicologist. He served as Philadelphia's chief toxicologist and was professor of pharmacology and toxicology at Thomas Jefferson University.

Eric Rieders, PhD

President & Chief Operating Officer, NMS Labs Chairman, Fredric Rieders **Family Foundation**

Eric Rieders has a doctorate in mathematics and serves as an adjunct professor of forensic science at Arcadia University and is a member of Jefferson's Sidney Kimmel Cancer Center Advisory Council.



M. Fredric Rieders, PhD '85 Jefferson College of Life Sciences Treasurer and Director, NMS Labs Board Member, Fredric Rieders

Family Foundation

M. Fredric Rieders is a member of the American Public Health Association, the Society of Forensic Toxicologists, and the International Association of Forensic Toxicologists. He is a fellow of the American Academy of Forensic Sciences and serves on the board of the National Association of Medical Examiners.

Innovator of the Year



Mauro Porcini Senior Vice President and Chief Design Officer, PepsiCo

Porcini is infusing design

thinking into PepsiCo's culture and leading a new approach to innovation by design. He is host of the video podcast "In Your Shoes with Mauro Porcini" and a presenter and judge on "New York by Design" and "America by Design," which air on CBS and Amazon Prime Video. Porcini has been singled out with numerous honors, which include top spots on lists of the world's most-influential, most influential, most creative, best dressed, and hottest rising stars. **J**







TRACY-GENE DURKIN, ESQ. '83 DIRECTOR, STERNE, KESSLER, GOLDSTEIN & FOX

Tracy Durkin is the leader of the Mechanical & Design Patent Practice Group at Sterne, Kessler, Goldstein & Fox, an intellectual property law firm in Washington, DC. Durkin has a well-earned reputation for excellence in design patent law built over the past 30 years. As a result, leading consumer product companies around the world seek out her expertise to protect their most iconic and innovative product designs from would-be copiers. Durkin has received numerous distinctions from leading publications and her peers. In 2018, *Financial Times* named her one of the "Top Ten

Legal Innovators in North America." World Trademark Review has heralded her for being "as innovative as the products that she protects." She received her BS, cum laude, in Textile Manufacturing and Marketing from Philadelphia College of Textiles and Science (now Jefferson) and her JD from The George Washington University Law School. She is also a member of the Advancement Council of the Kanbar College of Design, Engineering and Commerce.



Why did you choose Jefferson, and how did you go from a degree in **Textile Manufacturing and** Marketing to law?

TD: As a senior in high school, I thought I wanted to go into Fashion Merchandising. Textile had one of the few four-year programs in that field, so I applied and was thrilled to be accepted. In my first week at the school, my adviser suggested I switch to Textile Manufacturing and Marketing, and split my time between the School of Textiles and the Business School.

I didn't grow up wanting to be a lawyer; the idea developed in my senior year at Textile. I was working in the alumni office doing fundraising, and happened to call an alum who worked at the U.S. Patent and Trademark Office. He said he would not give a donation, but he did have a tip on a job at the Patent Office (which I got), and he mentioned that one of the perks was that they paid for law school.

At the time, I was taking a business law class, so I asked my professor what he knew about patent law. He told me it was a great career because it married the law and science. I can definitely thank Textile for setting me on my career path into law!

I am also grateful to Textile for having a significant impact on my personal life. I met my husband, Kevin, there in the gym at a basketball game.

Take risks. Be open to the possibilities. And most importantly, take advantage of opportunities. Life is a very circuitous path; it's not always a straight line from where you are now to where you ultimately want to get to.

What is the most exciting product you've worked on?

TD: I've worked on a lot of interesting technologies, including inventions that have gone into space with NASA astronauts. But the one I'm most proud to have been involved with is the iPhone. When Apple was ready to launch the iPhone in 2007, they set out to find a patent attorney who could create a global protection strategy for the design. I was fortunate to have been selected, and can say, "I patented the iPhone!" It is one of the most important innovations since the computer;

it has such a big impact on our lives.

What advice would you have for today's college students?

TD: Take risks. Be open to the possibilities. And most importantly, take advantage of opportunities. Life is a circuitous path; it is not always a straight line from where you are now to where you ultimately want to be. What you think you want to do today may not be a good fit for you tomorrow.

Is there any motto you live by?

TD: "Whether you believe you can do a thing or not, you're right." (Henry Ford) It underscores the fact that attitude really determines your success in life-or your failure. It is probably more important

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than your skills or abilities. The power of positive thinking means a lot to me and has always inspired how I live my life.

TD: I'm on the Advancement

Are you active with Jefferson?

about commercializing their technology or design.

Aside from law, what are you passionate about?

TD: In 2019, I traveled with World Bicycle Relief on behalf of my law firm to Lusaka, Zambia, to donate 150 specially designed bicycles. I saw firsthand how something as simple as a bicycle can have a great impact on healthcare, education, economic development, and gender equality in disadvantaged countries. The bicycles enable health workers to visit patients' homes; allow students to travel to and from school more easily and safely; provide greater capacity to farmers and entrepreneurs to transport goods; and ease safety concerns for girls doing household chores and attending school.

For me, giving back is not only about making a financial contribution; it is also about experiencing the mission on a personal level. In Zambia, we rode the bikes for three days with the recipients-students, farmers, and healthcare workers. We experienced their lives. It was the most humbling experience I've ever had. I'm still involved with the organization and hope to one day go back and relive that incredible experience with others. J



As part of our commitment to lifelong learning, the Office of Alumni Relations offers opportunities for group travel for Jefferson, Textile, and Philadelphia University alumni, friends and families. Our varied itinerary of travel destinations combines educational forums, unique adventures, and excursions to places of historical and cultural interest, with opportunities to discover nature's majestic landscapes and incredible wildlife. These trips offer the highest-quality travel experience through our partnerships with experienced travel providers.

- Wonders of Peru October 14-25, 2021
- Galapagos Islands—Western Itinerary October 26-November 2, 2021
- Florence in the Serene Season November 15-23, 2021
- Antarctica Discovery January 13-24, 2022
- Apulia—Undiscovered Italy March 30-April 7, 2022
- Dutch Waterways April 11-19, 2022
- Southwest National Parks May 11-19, 2022
- Romance of the Douro River May 20-31, 2022
- Alsace, Fairytale France June 12-20, 2022

Discover Southeast Alaska July 29-August 5, 2022 X

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- Kenya Safari August 5-15, 2022
- Canadian Rockies by Rail August 10-16, 2022
- Greece—Athens and Kalamata September 2-11, 2022
- Flavors of Northern Italy September 10-18, 2022
- Wonders of Peru October 6-17, 2022
- Florence in the Serene Season October 14-22, 2022
- Galapagos Islands–Western Itinerary October 25-November 1, 2022

For detailed trip information and to join our Travel Interest List, visit Jefferson.edu/AlumniTravel or contact Alumni Relations at 215-955-7750 or alumni@jefferson.edu.

New Curriculum Nurtures Students' Creative Side

Jefferson prepares students to navigate a rapidly evolving work environment.

BY MIKE BEDERKA

he Story of the Blues. Beekeeping 101. Zen and the Art of Chocolate. Plan Your Dream

Trip to Italy. The Mane Talk: A Walkthrough on Black/African American Hair.

Through an eclectic mix of workshops like these, all Jefferson freshmen had their first taste of Jefferson's Creativity Core Curriculum this past year.

The new curriculum aims to cultivate a confident and flexible student mindset, says Maribeth Kradel-Weitzel, assistant provost for academic affairs. Working with a transdisciplinary University team, she spent two years planning and developing the curriculum, which will guide students through the Fourth Industrial Revolution and the rapidly evolving future of work.

"Jefferson is an incredibly forward-thinking institution that's considering what a student's career will be like, not in 2022, but in 2040 or 2050," says Kradel-Weitzel, also director of the new MS in Health Communication Design program. "We're thinking about the longevity of a student's career and how we can best prepare them to be adaptable leaders."

Featuring three main components, the curriculum is part of the University's longstanding commitment to its award-winning Nexus Learning approach and its Hallmarks Core that have resulted in students gaining the skills needed for the future of work, she says.

First, students enrolled in First-Year Seminar 100 will take one of the Creative Making Workshops like those noted above. This year featured 65 diverse programs, averaging 10 attendees per session, taught virtually by faculty from Jefferson and elsewhere. Students could participate in workshops such as Bringing Your Perspective to Protest, Creative Writing in Nature, and Introduction to Mosaics. Second, starting in fall 2021, all students will take a "creativity-intensive course,"

which is embedded in their major. The class must meet three objectives for inclusion in the curriculum: create value by producing novel output relevant to professional and real-world endeavors; devise effective strategies for creative production; and engage empathetic and criticalthinking skills when framing opportunities and solving problems.

The full list of classes under this umbrella is still being developed but will include Design I in the College of Architecture and the Built Environment and Finding and Shaping Opportunity in the Kanbar College of Design, Engineering, and Commerce, among others, says Alysha Friesen Meloche, creativity-

By developing this curriculum, the University is demonstrating the importance that creativity, and thereby innovation, will have in all students' lives. intensive course coordinator. "Some classes can do this easily with small changes to existing objectives, while others may need to add new objectives."

The curriculum's third piece is a change to the Hallmarks Capstone, a required course for all undergrads during their final year. The proposed revision would recenter the course on the book *Designing Your Life* and feature exercises that use design thinking, reflective writing, and prototyping strategies to help students plan for life after graduation, Kradel-Weitzel says.

By developing this curriculum, the University is demonstrating the importance that creativity, and thereby innovation, will have in all students' lives, says Dr. Michael Brody, Jefferson's senior adviser for creativity and art.

"Creativity relates to everything you might do," he says. "Moving forward, creativity will be the absolute most important skill you can have in your toolbox for any iob."

People often equate

Take the beekeeping

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impact the world in various ways.

"It shows the big picture and how disciplines are interrelated," Dr. Brody says.

He spearheaded the workshops and their logisticsno small feat in 2020. Initially planned to be in person, the workshops quickly pivoted to virtual sessions. For some, students picked up supply kits at the Gutman Library on East Falls Campus so they could fully participate at home.

"We had to completely flip it all around," says Kradel-Weitzel, applauding the instructors and students for their adaptability during the pandemic.

Pre-nursing student Xueyi Li took the DIY Fidget workshop led by occupational therapy professor Dr. Monique Chabot. The session showed the process of making and doing, without concern for the end product, to support overall well-being. "I enjoyed this workshop because I don't have much of an opportunity to create handcrafts," Li says. "Doing such an activity really saved me from my academic anxiety." Biopsychology student Paulina Trzesniowska also

had a positive experience in the Beyond Male and Female session instructed by Nathan Long, a creative writing professor at Stockton University.

"It brought to light how quick we are to gender things, even inanimate objects, to help make them easier to categorize," Trzesniowska says. "It led me to be more cognizant of what I say, how to effectively

use people's preferred pronouns, and to be respectful of everyone's genders." In surveying students after taking the workshops, the Creativity Core Curriculum Committee found many shared a similar increase in "growth mindset" regarding viewpoints about creativity as a skill that can be developed rather than an innate personal quality, Kradel-Weitzel notes. The committee will conduct a more detailed analysis of the curriculum to show its widespread impact. Other potential benefits include the development of faculty research projects, new student organizations, and enhanced

community. "The success of the curriculum is in large part due to the dedication and diversity of perspectives of the Creativity Core Curriculum Committee members and the willingness of the greater university community to embark upon a new endeavor during an already-challenging time," Kradel-Weitzel says. "It has been inspiring to see how the curriculum has impacted students' perceptions about themselves and their abilities. I'm hopeful that this curriculum can help our students to differentiate themselves and reach a higher

potential." **J**

connection with the greater

Jefferson **Research:** Can We Teach Creativity?

Creativity is an increasingly important skill for navigating the 21st century. But how do human beings acquire that skill? Can it be taught? Richard W. Hass, PhD, assistant professor of psychology, believes it can. "I want to understand the processes through which we solve problems creatively," he says, "and then use those processes as the basis for curricula that prepare students to hone creativity as a tool for managing life in a swiftly changing economy, society, and environment."

Toward that ambitious goal, Dr. Hass is pursuing a broad range of interdisciplinary studies on the cognitive and social processes underlying creative thinking, conceptual combination, and motivation. His collaborators include

experts in philosophy, neuroscientists, anthropologists, statisticians, and experts in educational assessment-from institutions around the globe, including University of Alberta, Canada, and the Free University of Berlin, Germany. Their projects include:

- studies on how memory search processes enable people to generate novel ideas;
- an investigation of the interplay of cognitive and motivational variables in predicting real-world creative achievement; the identification of common facets of human idea-generation and problem-solving
- processes-and comparison of those facets with artificial intelligence strategies; and
- development of creativity measurement tools and assessments of how feedback affects the problem-solving process.

As the research produces concrete findings, Dr. Hass is applying them to curriculum development and to assessments of the classroom experience. With Jefferson colleagues, he is studying the correlation between teachers' beliefs about creativity generally and about teaching for creativity. The team is also working with the Jefferson Center for Interprofessional Practice and Education to perform statistical analysis on-and create outcomes-based assessments of-team-focused education.

"The curriculum we are developing will, we believe, help our graduates to creatively-and successfully-address challenges and tasks for which there is no single 'right' answer," Dr. Hass explains, "and to use what they know to confront situations involving outcomes that may be inherently unknowable." **J**

creativity with exclusively "making something artistic," Dr. Brody explains. While this can be true, exploring creativity also helps to rewire students' thinking-regardless of their major. workshop, for example. In the popular three-hour session, students learned about the lives of honeybees and, notably, how these insects

ANSVERING THE CALL (OF DUTY)

Architecture grad turned game designer creates worlds for blockbuster video games

lumnus Eli Tuttle '06, took an untraditional route from architecture student to game designer. A relative rarity compared to his colleagues in the game industry, Tuttle uses the skills he learned while studying architecture to create immersive virtual landscapes featured in some of the biggest video games on the market today. "Architecture gave me a great base for design, critical thinking, understanding how people use space, and putting myself in other people's shoes,' Tuttle shares. "This has helped me so much in my game development career."

After graduating in 2006, Tuttle joined a small biotech startup that utilized 3D space and game engines to create new tools for researchers to organize and study data. Eventually, funds for the project ran out and Tuttle returned to more traditional architecture. After being laid off in the wake of the 2008 recession, he made the decision to attend the Academy of Art University in San Francisco for game design. After working a variety

BY MIKE BEDERKA

of odd jobs in the industry, Tuttle eventually landed a gig with Sledgehammer Games —the studio responsible for the blockbuster Call of Duty series. He got his foot in the door working as an associate, but over the past five years has climbed the corporate ladder to senior environment artist.

While Tuttle's main responsibilities focus on the modeling and texturing aspects of the game map, his priorities vary depending on where they are in the development process.

"Early in the map work, it's more about general themes and callouts, outsourcing specific assets and figuring out what textures and models we need for the theme," Tuttle says, "At the end of a map, the work centers on fine-tuning anything visually confusing and polishing."

Currently, Tuttle works primarily as a pod lead. He makes sure the other artists on a map have enough direction, communicates with other departments, disseminates feedback from the art director, and verifies that outsourced assets are on track; essentially, Tuttle acts as the point of contact for all fires that must be addressed.

Alongside actually creating the space, Tuttle enjoys the narrative process of crafting a history for his maps. Is the space 100 years old or 10,000 years old? What cultures influenced the design? What happened in this place before the player arrived? These are all questions Tuttle gets to address during the design process.

Tuttle reflects fondly on his time at Jefferson,

"I loved my time in the studio. The comradery, friendships, learning, antics, and growth there were fantastic. I didn't realize how special it was until I didn't have it during grad school."

Tuttle encourages current students to take advantage of all

Your roughest critiques can be more educational and beneficial than your 'good ones.

> the university has to offer and to view every experience—both good and bad—as opportunities to grow and better themselves as designers.

"Your roughest critiques can be more educational and beneficial than your 'good ones," Tuttle says. "Embrace critiques and always look for areas to improve. They make you a better designer and more prepared for the workforce." **J**







The Spirit of Friendship

On a crisp fall day in September 2019, Allen Sirkin visited the Fashion and Textiles Futures Center in Hayward Hall to have lunch with the recipients of the Allen Sirkin '64, H'10 Scholarship, a fund that supports students pursuing degrees in fashion and textiles. Sirkin established the scholarship in 1992 when his children began enrolling in college and he witnessed firsthand the growing costs of higher education. At the lunch, Sirkin asked the students-all juniors and seniors-questions about their education, internship experiences, and career plans.

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In turn, the students asked for advice about interviewing,

job selection, and internship

choices. Sirkin's a good one to ask. He knows the fashion industry and is no stranger to hard work. After studying textiles and marketing at Philadelphia College of Textiles and Science (PCT&S), now Thomas Jefferson University, Sirkin got into the fashion business as a merchandiser at PVH. He worked his way up, embracing opportunity at every turn, and came to hold executive positions at Manhattan Industries, McGregor, and Pony Apparel, among others.

▲ Left to right: Michael J. Leonard, Dean of the School of Design and Engineering, David Sirkin '94, Allen Sirkin, and Larry Magid.



Sirkin returned to PVH, where he stayed for 30 years, retiring as president and chief operating officer in 2012.

In addition to meeting the scholarship recipients, Sirkin was celebrating another step in his journey: the unveiling of the Allen Sirkin Sewing Lab, named in recognition of his lifelong support as a trustee and philanthropist.

The Sirkin family's roots run deep at Jefferson. Bonnie, Allen's wife, graduated from Jefferson Medical College now Sidney Kimmel Medical College—as a cytotechnologist; his son, David, followed in his footprints and graduated



▲ Left to right: Larry Magid and Allen Sirkin.

from PCT&S in 1996; and his grandson, Noah, is currently a premed student in the College of Life Sciences, class of '23. Further out on the family tree, yet more Sirkin family members hold diplomas bearing some version of the Jefferson name.

One of Sirkin's childhood friends, rock 'n' roll impresario Larry Magid, also studied at PCT&S with Sirkin in the 1960s. In January 2019, Magid told Sirkin he wanted to endow a scholarship at Jefferson in his name.

"Wow, why?" Sirkin recalls asking.

"You're my friend," Magid replied. Inspired, Sirkin decided to match Magid's gift. Together they created a scholarship to support students pursuing careers in medicine. They've named it the Sirkin/Magid Spirit of Friendship Scholarship.

"It's really been done in the spirit of friendship, and that's where the name came from," Sirkin says. "It feels right. It sounds right. And I know it's the right thing for both of us to do." Back at the Hayward Hall

lunch, Sirkin encouraged the soon-to-graduate fashion and textile students to be bold and inquisitive. He challenged them to see change as a means for growth. In the fashion business,

Change is good. There's no reason for us not to stay on board and embrace the newness as well as the history of what the school represents.

> he told the students, it's "grow or die."

Sirkin views the merger between Thomas Jefferson University and his alma mater through a similar lens.

"PTI, PCT&S, PhilaU, Jefferson—it's a change dynamic," Sirkin says, encouraging alumni to embrace the potential of Jefferson as a singular, innovative institution.

"Change is good," he says. "There's no reason for us not to stay on board and embrace the newness as well as the history of what the school represents." **J**

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An Extraordinary Everywoman

An Interview with New Board Chair Patricia D. Wellenbach



Innovation and creativity have always been in Jefferson and Textile's DNA (creativity is literally in our curriculum, see page 52). So, it makes sense that we would need a novel Board of Trustee governance structure that's ready to meet the unique and evolving oversight demands of our thriving university and health system. We open this new academic and fiscal year led by the most diverse board in our history, with minorities and women accounting for 43 percent of our trustees. It starts at the top, with our newly elected board chair, Patricia (Trish) Wellenbach.

Trish was the granddaughter of Irish immigrants. Her father was the first in his family to go to college, and her mother was never able to attend college. Trish began her career as a registered nurse and has risen today to become the president and CEO of the Please Touch Museum in Philadelphia. She is the first woman to lead the Jefferson board (at Philadelphia University, Elizabeth Gemmill and Eileen Voynick served as board chair). I caught up with Trish as she takes the helm of the board to ask about her vision for Jefferson, what it takes to be a trustee, and what would be on her "stranded island" playlist.

ED: What qualities do you think are most important in a trustee?

PW: Integrity, authenticity, respect, and an appreciation for the importance of rigor and data to inform decisions are critical. And the capacity to bring humanity into how we implement decisions are all qualities that I believe make for outstanding trustees and leaders.

ED: What's your vision for Jefferson?

PW: My vision is that Jefferson continues its legacy of excellence in educating future leaders and in providing the highest level of quality and safety in patient care. Jefferson's commitment to healthcare access for underserved and marginalized individuals and communities continues to be a focus of the board and management and is something I care about very much. I believe there is more we can and will do to bridge the deep divide in healthcare and higher education that continues to exist for so many people.

ED: How will you measure success as the new leader of the board of trustees?

I am focused on ensuring we continue our work of inclusion and equity. I am looking forward to working in partnership with our trustees and management as we steward Jefferson toward its 200th anniversary in 2024.

ED: Stranded on an island, if you are stuck with one song on your playlist, which would it be?

PW: Ah, this is a tough question because as my life has evolved and circumstances have changed I know the answer would be different.

At this moment in time, it would have to be "I'm Every Woman" by Chaka Khan. Of course, the Whitney Houston version may be one of the best recordings of the song. I know as chair, I now have a higher calling to be "every woman." Who knows, the job I do might just convince some people that every woman is more than capable to do any job.

ED: What advice do you have for an alumna or young woman entering the workforce today?

PW: Never underestimate what you can do, and never underestimate your worth. Don't be afraid to get out of your comfort zone. I can guarantee that if you do, you will find an untapped inner capacity to do what might have seemed unimaginable.



Elizabeth A. Dale

Elizabeth A. Dale, EdD, MPA Executive Vice President and Chief Advancement Officer Office of Institutional Advancement

215-503-5138 elizabeth.dale@jefferson.edu ♥@elizabeth__dale

Please contact me if you'd like to learn more about the doors you can open and lives you can change. I'd love to hear from you.



Baseball Has Best Season in 30 Years

It was an impressive 2021 campaign for the Thomas Jefferson University baseball team as the Rams posted their best season in 30 years.

Jefferson finished with a 23-11 record for a .676 winning percentage, its highest mark since 1990, when the Rams went 34-15-1 (.690) and advanced to the Division II College World Series.

A regular fixture in the East Region rankings during the year, Jefferson reached and hosted the CACC Championship Game but fell to Dominican in a thrilling, 6-5 contest. The Rams narrowly missed out on an NCAA Tournament bid.

History was made as Jack Galligan became the first Ram to win CACC Pitcher of the Year honors and was one of five Rams to be named All-CACC, three of them on the first team. Galligan was also a unanimous first-team All-Region selection. Richard Joa, Matt Bukavich, and Ryan Sawyer also received All-Region accolades. Joa became the first player to hit for the cycle in a game since 2006.



To view the full list of awards go to jeffersonrams. com/news or scan the QR code with your smart phone camera.



Record 86 Student-Athletes Earn CACC All-Academic Team Honors

A University record 86 student-athletes made the CACC All-Academic Team for the 2020-2021 school year.

Women's lacrosse led all Jefferson teams with 13 players, including four-time honoree Erin Eckert. Women's soccer, baseball, and softball followed, with 12 players on each squad receiving All-Academic Team honors.

"I'm simply in awe of our student-athletes," says Tom Shirley, Jefferson's assistant vice president for athletics. "Without question, this was the most challenging year in terms of performing academically and athletically. Thank you for representing your family, the University and your respective teams in such an outstanding way."

Seventy-five student-athletes earned the CACC distinction during the 2019–2020 school year, the previous University record.



Meet the Coach: Dave Thomas

Q: What's something you're proud of that you've accomplished at Jefferson?

A: In my 15 seasons at Jefferson, I'm proud of rebuilding the cross country program and winning a total of 14 conference team titles (combined men and women). I'm also proud of our high graduation rate and our more than 12 Academic All-America teams [teams with a combined GPA of 3.0 or higher also qualified for the NCAA region championship].

Q: What are your top three favorite albums?

A: Elvis Presley #1s. The Beach Boys Greatest Hits. The Rolling Stones Greatest Hits, Vol. #1.

Q: What's the first concert you attended?

A: Elvis Presley, The King. I saw him at the Spectrum in Philadelphia in 1974.

Q: Where's your happy place?

A: A quiet, early morning run on the beach in Ocean City, New Jersey.

Q: What's your favorite quote?

A: "Far better is it to dare mighty things, to win glorious triumphs, even though checkered by failure... than to rank with those poor spirits who neither enjoy nor suffer much, because they live in a grey twilight that knows not victory nor defeat." –President Theodore Roosevelt

Alumni Spotlight





Alumni Spotlight Kevin McGovern '11

Recently, former Rams baseball player Kevin McGovern was the featured guest on KYW Newsradio's 1-on-1 with Matt Leon.

After leaving East Falls, McGovern spent 10 years chasing his professional baseball dream all across the independent league scene. In June 2021, however, McGovern's dedication paid off as he was signed by the St. Louis Cardinals organization. McGovern discusses his journey on the podcast.





From Jefferson to the White House

Visual communication design alumna Abbey Pitzer joins Biden's Office of Digital Strategy team.

BY MIKE BEDERKA



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s attended Jefferson's Graphic Design Discovery Day, an annual event of tours and Q&As for accepted and prospective students of the program and decided that she wanted to

pursue a career in graphic design. Pitzer has come a long way from designing posters and t-shirts for her high school class. The Jefferson alumnae has taken her design skills to the



national stage after joining Joe Biden's successful presidential campaign.

Pitzer joined the campaign in September 2019, just as the Democratic primary was getting into full swing, where she began working on building the Biden brand from the ground up—a process that both excited and intimidated her. When the pandemic began to peak in early 2020, Pitzer rolled with the punches and didn't let the shift to full remote work slow her down.

Pitzer helped design a multitude of illustrated people for different types of campaign assets, such as event graphics, tickets, and the JoeBiden.com homepage. These illustrated figures represented people of various races and disabilities to convey the message of positivity and inclusivity that the Biden-Harris campaign encouraged. During this period, she was promoted to brand ambassador. Pitzer recalls Election Day, sitting around the television

with her family watching the

numbers climb for both parties,

and breathing a sigh of relief as Biden finally ticked past 270 electoral votes.

"All the late nights, all the stress to hit tight deadlines, all the pressure to execute well, it was all worth it—we had won."

Following the election, Rob Flaherty, the Digital Director of Strategy at the White House, invited Pitzer to stay on the campaign through the inauguration to help with graphics for the campaign's email team and social channels. In late December, she received the offer for a full-time position as a designer in the Office of Digital Strategy at the White House. Pitzer continues to work on digital and printed assets to represent the Biden-Harris brand in innovative and new ways.

Beyond the Biden administration, Pitzer hopes to continue designing with a sense of purpose with the goal to "do good" with her illustrations. In the future, she hopes to open her own design studio or illustrate a children's book.

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...it's a cognitive and strategic approach that goes beyond making something look nice.

Pitzer attributes much of her success to the experiences, education, and opportunities she received as a student at Jefferson.

"The University's visual communication design program teaches you all of that from the ground up. But more importantly, it instills a solid foundation of design thinking that's necessary for problemsolving in the real world. They focus on teaching design thinking and thinking about a system as a whole—it's a cognitive and strategic approach that goes beyond making something look nice." **■**

magazine.jefferson.edu 🥢 65

1952 JOSEPH H. SLOSS, MD Medicine

Dr. Sloss is still enjoying good health at age 93 with his wife, Nan, in their retirement home, Freedom Village at Bradenton.

1953

JOHN THACKRAH Chemistry and Dyeing

John graduated from Philadelphia Textiles Institute in 1953 with a degree in Chemistry and Dyeing. Alongside 19 classmates, John was among the first class to have the honor of completing four years at the new site after moving from Broad and Pine Streets after nearly 70 years. His PTI education provided the tools he needed for a variety of successful textile careers, and some members of the original class remain in contact with each other. John's PTI coffee mug, Phi Psi paddle, and 50th anniversary medal bring him many fond memories. He wishes all students to succeed in their careers.

1955

JOHN A. MARCHESANI, MD, FAAP Medicine

Dr. Marchesani just turned 91. He has six children and 10 grandchildren, and became a great-grandfather after the birth of his first greatgranddaughter. John was diagnosed with ALS in March 2020 but is still happily married to his wife, Marie.



1959 STUART B. BROWN, MD Medicine

Dr. Brown retired from the practice of child neurology three years ago after 50 years of pleasure, enjoyment, intellectual stimulation, and professional satisfaction. He sends lots of love and best wishes to his friends from the class of 1959.

1960

GENE R. ADAMS, MD Medicine

Dr. Adams writes, "Enjoying my retirement!"

1961 DAVID K. SUBIN, MD Medicine

Dr. Subin is continuing to work virtually for the Social Security Administration as a medical consultant.

1964 HERBERT M. FISHER, MD Medicine

Dr. Fisher retired after 43 years in Primary Care practice. He now enjoys building wooden model ships as a hobby.

1965

PHILLIP H. WINSLOW, MD Medicine

"Still vertical," Dr. Winslow writes. He is proud to announce that his older grandson has graduated from college and landed his first job.

1970 RONALD BLUM, MD Medicine

Ron was awarded the Lifetime Achievement Award by Maine Academy of Family Physicians. He also served as past president of New England College of Occupational and Environmental Medicine. Ron is "mostly" retired, serves on several boards as town official, and enjoys woodworking and fishing in his free time.

CHARLES M. FURR, MD Medicine

Dr. Furr retired on October 31, 2020, after 44 years of invasive cardiology in Erie, Pennsylvania. "Taking care of patients was a privilege indeed!"

CHARLES R. SCHLEIFER, MD Medicine

Dr. Schleifer retired in 2018 for a second time. He first retired from Lankenau, where he served as nephrologist and internist from 1970 to 2010.

1971

JAMES THOMAS HAY, MD Medicine

Dr. Hay has retired after 42 years in practice of family medicine in San Diego. He is still very active in CMA, AMA, and several local nonprofits. He is looking forward to lots of travel post-COVID-19.

ROBERT E. STEWARD, JR., MD, FACS Medicine

Dr. Steward has retired from his practice of general surgery after more than 40 years of practice in Philipsburg, Pennsylvania.

1973

PAUL A. BIALAS, MD Medicine

Dr. Bialas and his wife, Debbie, have both retired after a 40-year career in general internal medicine in Warren, Pennsylvania. Two of their children are Jeff grads, practicing in Pennsylvania. "We owe a great deal to Jefferson. It was a fulfilling, great ride!" writes Paul.

HARRY GLADFELTER Chemistry

Harry reports he is retired but keeping busy. He holds 16 U.S. patents in industrial textiles that include protective sleevings, acoustic abatement, electronic EMI/RFI shielding, and flexible reflective heat shields. Recently, a typo in an online search led him to discover that many other Gladfelters in his extended family (or Glattfelders, Glatfelters, Clodfelters, or Glotfeltys, among the variations across the country) held patents dating back as far as 1879. Some of them, in Harry's words, were real "scientific Rock Stars!" The family's patents include designs for a railway car brake, a washing machine, a dust pan, a twospeed drill, and bottle caps. He has started putting together two compilations: Glattfelders in Medicine, and Glattfelders in

DEAN J. LEIS, MD Medicine

Science.

Dr. Leis retired in September 2019 after 43 glorious years of family practice. He is now focusing on learning new skills and volunteers with the Red Cross.

1975 THOMAS R. ELLENBERGER, JR., MD

Dr. Ellenberger is entering his 43rd year of independent private practice of Internal Medicine in Johnstown, Pennsylvania. He and his wife have four children, all settled away from home, and they have one young grandson and one granddaughter. Retirement is only under consideration for Thomas

1976

Medicine

ROBERT G. MCCAIRNS, JR., MD Medicine

In September 2019, Dr. McCairns retired from surgical practice and teaching after 36 years on faculty and staff at Thomas Jefferson University Hospital and 29 years at Methodist Hospital.

DEAN WINSLOW, MD Medicine

Dr. Winslow is a Professor of Medicine at Stanford University and Senior Fellow by courtesy at the Center for International Security and Cooperation, and he is on leave from Stanford while serving as Senior Adviser to the CDC COVID-19 Testing and Diagnostics Working Group based in Washington DC. He is also back on active duty orders with the California State Guard.

1985 MARILYN J

MARILYN J. HEINE, MD, FACEP, FACP, FCPP Medicine

Dr. Heine was elected chair

of the American Medical Association (AMA) Council on Legislation (COL) during its June meeting. She also represents the AMA on the Board of the Council for Affordable Quality Healthcare Committee on Operating Rules for Information Exchange, is chair of a congressional physicians advisory board, secretary of the Forum for Medical Affairs Executive Committee, and a member of the governing council for the AMA Private Practice Physicians Congress. She serves as national faculty on health policy, advocacy, and hematologic emergencies. She is also clinical assistant professor in the Department of Medicine at Drexel University College of Medicine in Philadelphia, and an emergency medicine and hematology oncology physician in southeast Pennsylvania.

DAVID S. SERES, MD Medicine

SAJ D

Dr. Seres was recently promoted to Professor of Medicine in the Institute of Human Nutrition at Columbia University Irving Medical Center in New York. There, he directs the medical nutrition consult service and one of the few fellowships in clinical nutrition for physicians in the country. He just completed terms on the board of directors and as Chair of the Medical Practice Section at the American Society for Nutrition. He is a contributing writer at political newsletter The Hilll and has consulted to states attorneys general and the FTC on fraudulent dietary supplement advertising.

1987

STEPHEN JONES Business Administration

Dr. Stephen Jones is an accomplished educator, author, and publisher of five books. He is devoted to inspiring people to live their best lives personally, intellectually, emotionally, and socially. In his new book. Dr. Jones is devoted to helping couples make their marriage an exciting and longlasting relationship built on trust in God and a determination that nothing can separate them from their spouse. To get a copy of the new book, visit: DrJonesBooks.com/marriage.

1989

WILLIAM L. CARROLL, MD Medicine

Dr. Carroll is still practicing Family Medicine with classmate Maddie Wood, MD, '89. In the wake of COVID-19, Dr. Carroll still has no plans to retire. His partners at Gateway Medical have dealt with well over 350 cases.

CHARLES D. TULLIUS, MD Medicine

Dr. Tullius writes, "I'm practicing anesthesiology in Somerset, Pennsylvania, but getting to spend a lot of time at our home near Hilton Head Island. I'd love to hear from my JMC friends."



🔺 Drew Morrisroe '96, MBA '99

1996 DREW MORRISROE Information Systems/Finance MBA (1999)

Drew has been appointed chair of the Jefferson Academic Board, which oversees the university and Academic Pillar. He is President and CEO of CTN Solutions, an IT service provider based in Blue Bell, Pennsylvania. Earlier in his career he received the distinction of "40 under 40" in Philadelphia, which recognizes a group of young businesspeople annually for their roles in the business and civic community. Drew also serves on the Board of Trustees of Thomas Jefferson University, which oversees the combined enterprise of the university and Jefferson Health system. On his LinkedIn page, Drew wrote: "Our future is so bright thanks to our outstanding faculty and staff who every day provide an educational experience that is second to none. Our students and alums are changing the world and soaring high."

1998 JOHN F. WRIGHT Architecture

John has been with Spiezle Architectural Group for over 16 years and has diverse expertise in the design and construction of higher education, academic, and commercial buildings. He has received numerous accolades and awards, and most importantly earned the trust and admiration of his colleagues and clients. As an advocate for green building, John's projects include sustainable design

and campus planning. He has contributed to nearly a dozen LEED-certified projects and recently presented on Energy Master Planning at the 2020 SCUP Mid-Atlantic Regional Conference. John is a member of the American Institute of Architects and the National Council of Architectural Registration Boards and is a U.S. Green Building Council LEED[®] Accredited Professional.

JEREMY AVELLINO

Architecture

Jeremy started his architecture firm, Bright Common, 10 years ago, but in recent years has started focusing on using existing spaces and sustainability; his practices also focus on generating greater social impact and inclusionary housing. Jeremey's designs merge low-energy retrofitssuch as insulation and solar arrays-and new constructions. Many of Jeremy's designs have found homes in openminded Fishtown. Several of his designs utilize Passive

House methodology, which focuses on highly insulated and airtight constructions as the most direct means to net-zero energy projects. Jeremy's firm receives commissions for both residential and commercial space builds.

2001

PETER J. HULICK, MD Medicine

Dr. Hulick was elected as a director on the American Board of Medical Genetics and Genomics.

2007

CHRISTEN CAPRON WALSH Fashion Design

In October 2020, Christen Capron and Andrew Walsh married at St. Aloysius Catholic Church in Washington, D.C. They currently reside in San Diego, California.

2010 SHAWANA MOORE, PhD Nursing FACT

Dr. Moore, assistant professor and director of the Women's Health-Gender Related Nurse Practitioner Program, was recently appointed Chair-Elect on the Board of Directors of the National Association of Nurse Practitioners in Women's Health (NPWH). The COVID-19 pandemic has strained our healthcare system, and providers have carried so much of the burden. NPWH has supported providers with continuing education and guidance in new and innovative ways. As a leader of NPWH, Chair-Elect Dr. Moore will

V Stephen Jones '87

10 keys to a SUCCESSFUL MARRIAGE SevenSecrets

Building a strong relationship where the two become one. Learn How To Apply the Bible to Your Engagement or Marriage

OF HOW TO STUDY



Left to right, Gaige DeHaven '19 and Topher Anderson '18

help guide this organization and support providers that specialize in women's health in the next several years.

2013 ADRIENNE LARSEN Textile Engineering

As a nine-year-old growing up in the Brainerd Lakes area, Adrienne learned to knit from her beloved Grandma Audrey as a way to fidget productively. Years later, after stints sewing costumes in a barn in upstate New York and earning an advanced degree in textile engineering from Philadelphia University, Larsen is publishing her third knitting book, Twists & *Twines*, available for purchase through Amazon and Ravelry now. Crowd-funded by Kickstarter, the book instructs intermediate to advanced knitters on how to create 16 cable knit designs, including sweaters and hats.

2016 TAKAHIRO SATO, PhD '13, AND CRYSTAL KRAFT, PhD '16 Molecular Pharmacology & Structural Biology and Cell & Developmental Biology

Drs. Sato and Kraft welcomed daughter Reina Kraft Sato on March 16, 2021.

2019

TOPHER ANDERSON '18 AND GAIGE DEHAVEN '19 Textile Engineer & Science and Industrial Design

In the matter of a days, Topher and Gaige turned the researchand-development arm of ZSK Stickmaschinen into a personal protective equipment-making factory. As the pandemic swelled, they realized they could use their experience and knowledge to retool the company's equipment to produce much-needed masks and filters for respirators. They demonstrated the process on LinkedIn and YouTube and solicited feedback on ways to improve and fine-tune their concept. "We've had a lot of success after Mario Lopez from Saved by the Bell started wearing them with his kids," writes Topher. "As such, we have spun this business off into its own company called Bend Shape Masks. We are currently going through the N95 review process; with some time, hopefully we can put that critical N95 stamp on our masks to further show their textile quality. It's been a joy to get to work on these."



Adrienne Larsen '13



▲ The fall 2020 issue of *Jefferson Innovator* incorrectly labeled a photo of Linda Marie (Bojanowski) McWilliams '77. We regret the error.

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Harold L. (Duke) Pototsky '58 (1930 — 2020)

Harold Leonard "Duke" Pototsky was a successful businessman, an avid traveler, and a devoted father, husband, and friend,

Harold graduated summa cum laude from Philadelphia Textile Institute (now Thomas Jefferson University) in 1958, where he earned his Bachelor of Science degree in Textile Engineering. Harold played varsity basketball and soccer for all four years at Textile.

In 1982, Harold returned to Textile and became active in the Alumni Association. In 1990, as President of the Alumni Association, he formed the prestigious Four Alumni Awards and the Hall of Fame Committee. Harold served as a Trustee at Textile from 1992 to 1994. From 2000–2001, Harold served as an adjunct professor at Philadelphia University, where he taught Clothing and Textile Design. In 2011, he received the Graham J. Littlewood, III '42 Time, Talent & Treasure Award. In 2012, he was elected to the Philadelphia University Hall of Fame along with his 1958 basketball teammates. Harold passed away on September 17,

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2020, at the age of 90. He is survived by his three children: Marla, David, and James; and his grandchildren Elliot and Charlotte.

Harold is buried at Roosevelt Memorial Park in Philadelphia, where he received full military honors.

1940 Goldie Pringle

Norma Smith

1942 Anna McCormick

1945

Jane Mack

1947 Audrey Bearer

Ann Cloud Margaret Cygan Marjorie Logan Elizabeth McNulty Muriel Rotherham Flora Simpson

1948

C. Cohn, MD Donald Feigley, MD

1949

Peter Eichman, MD Stanley Nabity, MD

1950

Ann Breach Eleanor Larson Elinore Lynch Donald Sass, MD Geraldine Strye

1951

June Graf Robert Hale, MD Anna Humphreys Marilyn Marshall Robert Mulligan, MD Mary Romig

Joan Bucciarelli Kenneth Kron, MD

1953

1952

Irvin Jacobs, MD William Jenson, MD James Thomas, MD

1954

Jerome Cook, MD Jerome Dersh, MD G. Dickersin, MD Peggy Gerard Charles Greenbaum, MD Louisa Hoch Merle Katzman, MD Earl Lewis, MD John Patterson, MD

1955

Bernard Baron, MD Dawn John Ben Kline, MD Ruth Zager, MD

1956

Paul McDonough

1957

June Dupnock Abram Hostetter, MD Marvin Sackner, MD Grafton Sieber, MD Joseph Skutches, MD

1958

Carl Bemiller, MD Barbara Borkowsi Richard Eshbach, MD Barbara Garzon Joan Tribolet

1959

Thomas Gumina, Jr.

1960

John Hetherington, Jr. Kathryn Mihalik Frederick Shisler, MD

1961

William McCann, MD Gerald Polin, MD Alice Shirakawa

1962

Donald Brodie, MD Marcie Moore



Ernest L. "Gary" Rosato, MD '90

(1964 - 2021)

Ernest L. "Gary" Rosato, MD, was an accomplished surgeon, an exceptional teacher, and a devoted husband, father, and friend.

He received his BA from the University of Pennsylvania in 1986 and his medical degree from Jefferson Medical College (now Sidney Kimmel Medical College) in 1990. Dr. Rosato completed his surgical residency at Thomas Jefferson University Hospital in 1996 and subsequently joined the faculty in the Department of Surgery.

During his 25 years at Jefferson, he took on multiple leadership roles, including Chief of the Division of General Surgery. Dr. Rosato was responsible for training surgical residents and medical students, and received many teaching and mentoring awards, including the Department of Surgery Faculty Teaching Award and the Jefferson Medical College Dean's Citation for Faculty Mentoring.

A devoted father and husband who loved spending time with family, Dr. Rosato was known among colleagues for his calm demeanor, modesty, kindness, and sense of humor.

1963 John Dick, MD Julio Vassalluzzo, MD

1976

Mark Lichtenstein, MD

Raymond Haibach, MD

Donald Parks, MD

Donald Schnapf, DO

1977 Patricia Chappell

1978

1965

Wayne Grobner Wayne Matzelle, MD Benjamin Schecter, MD

Joseph Franger, MD Martin Koutcher, MD Edward Salgado, MD

1968

1966

1967

Herbert Luscombe, MD Edward Wrobleski, MD

1969

1970

Beverly Cockerham Louis Freeman, MD Frederick Hampf, Jr.

Hope Schooley

Paul Weinberg, MD

1972

Martin Fleishman, MD Caroline Hollshwandner, PhD James Wall, MD

1973

William Chain, Jr. Ann Diehl

1974 George Sheer, MD

1975 John Kavanagh, Jr.

1964

Lawrence Green, MD Robert Kalish, MD Gale MacKenzie

Martin Dresner, MD, FACS

1980 George Risi, MD

> 1986 Jeffrey Ostrowski

1987 Linda Miller, MD

1989 Elizabeth Brophy

1991 Linda Warren

> 1993 Karen Sabatini

2002

Deidre Rubic

JEFFERSON INNOVATOR Magazine

TRIVIA

Give our open-book quiz a shot! **HINT**: All of the answers are in this issue!

What was the final score of the 1970 NCAA Championship basketball game?

A. 63-61 B. 71-70 C. 76-65 D. 80-75

2.

3.

trivia

74

On which streaming service can you stream "Next in Fashion", featuring Program Director and Professor of Fashion Design Farai Simoyi?

A. Amazon Prime B. Apple TV+ C. Hulu D. Netflix

Who was named Innovator of the Year at the 2021 Celebration of Innovation?

- A. Alexandra Grant B. Abbey Pitzer C. Mauro Porcini
- D. Aaron Ulland



Submit your answers at **Jefferson.edu/InnovatorTrivia** or scan the QR code with your smartphone camera by September 30, 2021. A perfect score will enter you in a drawing to win a Jefferson T-shirt.







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