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UofL Magazine

FOR ALUMNI & FRIENDS



Lifting Barriers

Piano professor helps refugees find their voice amid adversity

SUMMER 2019

From voice to visibility

Music professor provides solace and empowerment for refugees across the world.



by **NIKI KING**

illustrated by **PAUL BLOW**

photos by **VICTORIA STEVENS
& SKYLER KNUTZEN**

“Bravo to you.”

Anna Petrova praised her new student Behnam, a teenager from Afghanistan, as he pinpointed C sharp on the keyboard.

Their lesson was halfway around the world from her UofL School of Music job as assistant professor of piano. The classroom was in Denmark at a Red Cross school for refugees, to which Behnam traveled an hour each day. The youth had taught himself English by watching YouTube videos.

A quick study, Behnam also learned the basics of piano and viola within two days of lessons last November with Petrova and her musical partner, violist Molly Carr.





“His passion is to study piano and learn to play music,” Petrova said. “We encouraged him to continue pursuing his dream and talked to his teachers to help find a local piano teacher who would volunteer to teach him. This path could be completely life-changing for him. We hold him dear and hope that we will see him play again one day.”

Behnam is one of many refugees Petrova and Carr encountered this past year with their multifaceted project Novel Voices, which seeks to aid refugees through music. With a financial award from the Music Academy of the West, Petrova and Carr conducted music workshops and concerts for refugee communities in Bulgaria, Denmark, the West Bank and the U.S.

The two wanted to use art to reach those living on the margins of local and global communities.

“We hoped to not only provide the momentary solace and empowerment that music and storytelling provide, but create spaces in which their unique stories are heard, connections are made and support is galvanized,” Carr said.

They traveled with Fernando Arroyo Lascurain, a film music composer from Los Angeles who collected cultural expressions that refugees shared, such as folk songs, dances and poetry. Lascurain used them as inspiration for a three-part musical composition the Carr-Petrova Duo will premiere at Carnegie Hall on Oct. 28 in New York City. The concert is dedicated to refugees.

Victoria Stevens and Skyler Knutzen, New York-based photographers and videographers, captured the team’s work and plan to use the footage for a documentary about refugees that will likely air at a refugee film festival, among other places.

“Through film and media nowadays we can make a much bigger impact,” Petrova said.

The project ultimately is meant to humanize refugees and draw attention to the real people caught in the complicated geopolitical issues of migration, which recently reached crisis levels largely due to the Syrian War, Petrova said. Globally, more people have been forced to flee their homes from conflict and crisis lately than at any time since World War II.

Novel Voices has already attracted international attention. The United

Nations invited Petrova and Carr to speak about the project and perform a concert in October as part of the celebrations for the 70th anniversary of the Declaration of Human Rights.

“The project’s mission was to center the spotlight onto refugees as people, just like you and I,” she said.

In the Beginning

Carr and Petrova met as students at the Manhattan School of Music, where Petrova earned a Doctor of Musical Arts degree. Carr transferred to the Juilliard School, where she teaches now, and the two drifted apart. They ran into each other several years ago in a New York City park and decided to play together. Since then, they’ve performed around the world as the Carr-Petrova Duo, earning awards and critical acclaim.

“Throughout the whole experience with teaching them piano, I was astonished by their innocence, naiveté and pureness — the child in them was not changed regardless of the harrowing situation they were in.”



► Mohammad and Mohammad studying piano in the Jelling Red Cross Refugee Camp in Denmark.

Carr has worked with underserved populations as director of her own nonprofit Project: Music Heals Us and wanted to extend support to refugees. She reached out to Petrova to collaborate.

Petrova, whose native Bulgaria has struggled with increasing refugee

populations, holds deep empathy for people escaping conflict in search of a better life. Her participation was a natural fit.

The two kicked off Novel Voices about the same time Petrova was hired to teach at UofL. Christopher Doane, then dean of the School of Music, said Novel Voices exemplifies Petrova’s collaborative abilities, which, along with her performance skills, made her an attractive candidate for the job.

The School of Music has a strong legacy of piano education throughout its 75-year history, harkening back to its first dean, concert pianist Dwight Anderson. The school needed someone who could carry that legacy forward.

“She is a fantastic player, great collaborator and an inspirational teacher,” Doane said. “Anna’s presence allows us to both connect with the past of the school

and establish a new future based on her artistry and vision for what a solo pianist can learn here at UofL.”

Her busy international performance schedule, along with the Novel Voices project, gives her a worldwide platform to serve as an ambassador for UofL.



◀ A girl playing oud, a traditional Arabic instrument, in the West Bank Deheishe camp.

▼ The Carr-Petrova Duo, right, with participants in a workshop at the West Bank Deheishe camp.



The Project

Petrova and Carr worked with refugee organizations to reach eight communities.

This presented its own challenges, Petrova said, as groups were enthusiastically receptive but had no precedent for working with musicians. That meant all the logistics fell to their team.

At each site, they performed works from artists who overcame adversity to become composers and musicians.

“We wanted to inspire them with their stories,” Petrova said.

They also gave group workshops, teaching basic components of music such as rhythm and melody; then the group created new compositions together. The duo offered private lessons to interested individuals.

The team met many memorable participants, such as Morteza, a teenage Afghan refugee living in Denmark. He rapped in his own language to music he’d made on his phone. He dreams of touring internationally as a rapper named Danger.

And, there were two boys, both named

Mohammad, also living in Denmark, who were particularly eager.

“Throughout the whole experience with teaching them piano, I was astonished by their innocence, naiveté and pureness—the child in them was not changed regardless of the harrowing situation they were in. It was hard for me to not think about that as they were completely immersed in the fun of learning the piano and music-making,” Petrova said.

There were challenges along the way too, Petrova said, like translating their lessons through various languages and filming in the Bulgarian camps, where Muslim participants didn’t want to appear on camera.

Wrapping Up

Carr and Petrova have completed the outreach portion of their project but foresee working with refugees in other ways.

“It never stops. It’s very hard to say this will be the end,” Petrova said. “We always see opportunity to do more.”

Next, they’ll release the duo’s debut album, “Novel Voices,” in September on the Melos label featuring compositions they played for the refugees and Lascurain’s original composition. They’re planning album release events in New York and in Louisville on Sept. 5 at the jazz club Jimmy Can’t Dance.

While Carr is in Louisville, they’ll do concerts and workshops for Kentucky Refugee Ministries, and Petrova’s UofL students will participate. She’ll talk to them about how they put the project together and how music can be used as a vehicle for social justice and outreach.

Looking back, it’s hard to say what the lasting impact of the project will ultimately be, Petrova said. But she feels they were able to reach people in a personal way, help fan their creative flames and foster hope for a better tomorrow.

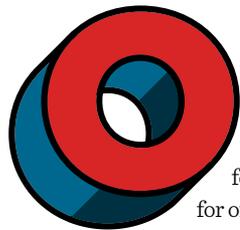
“Without sounding too ambitious, I do believe we have inspired children and refugee audiences to be more open and use their creative talents,” Petrova said. “We haven’t alleviated the refugee problem, obviously, and that was not the goal of the project. I haven’t been naive enough to think that through concerts we can change the reasons there are refugees ... But for the human impact, one-on-one, I believe we’ve made a small impact on some people’s lives.”



BECOMING THEIR
HERO

BY CHEYENNE HILL

SOPHOMORE NICO THOM STARTED A NONPROFIT TO TEACH GIRLS THEY CAN BE WHATEVER THEY WANT



Once upon a time a high school student in Northern Kentucky had a dream that girls would strive for more than a fairy-tale future for of themselves. She fantasized they would realize they have more opportunities, more strong role models, more freedom to be anything they want to be.

It is a vision echoed across society but UofL sophomore Nico Thom is turning that vision into reality.

Along with attending school full time, majoring in public health and participating in student government and other organizations, Thom is the founder of She Became, a non-profit focused on mentoring young girls.

“I had great parents that always told me that I could be whatever I want to be, but I knew that not everyone had that,” Thom said. “I wanted to tackle this issue that affects all young women, not just the underprivileged or underserved. I think that it’s prevalent everywhere.”

At age 16, Thom established the first She Became site in her Fort Thomas hometown.

What started as a passion project quickly spread like wildfire through the Fort Thomas school system as a successful after-school program. When she graduated from high school, Thom brought She Became with her to Louisville and UofL. The program has since grown to include more than 80 volunteers from the university and the community. During the 2018-19 school year, She Became became an official after-school program in two Jefferson County schools: Coleridge-Taylor Montessori and Fern Creek Elementary.

She Became works with third- through fifth-graders by engaging them directly with female professionals across a wide variety of careers. From doctors, lawyers and software engineers to chefs, cosmetologists and

zookeepers, the girls are brought face-to-face with all of their potential in the form of women who achieve.

Christie Kremer, a UofL freshman with a double major in Spanish and studio arts, has been with Thom since She Became’s beginning in Fort Thomas. She saw the potential in Thom’s idea and decided to throw her support and skills behind it. Kremer is currently the director of marketing, responsible for designing the She Became logo and keeping the website up to date, as well as serving as a mentor at Fern Creek Elementary.

“I was a big fan of the idea. I thought it was a good way to get involved with different schools and it just seemed like something really important,” Kremer said.

“I like Christie because she’s really nice and pretty,” said Kremer’s mentee, Teionna, 10. “But my favorite part is all of the strong, beautiful women that come in and teach us about different things.”

At the final event for the school year, UofL law student Meryem Khaloon spoke to the girls about life as an attorney. She outlined to them the steps to becoming a lawyer and the responsibilities of the job. During a mock trial, the girls were divided into groups to defend their clients. The discussion was lively and engaged as the young women delved into the attorney role-playing.

Arienna, 11, loved interacting with UofL students but she specifically enjoyed Khaloon’s lesson in law. “I really liked the law week. We got to be creative and make up a defense for some crazy story, and we won,” she said.

Thom has accomplished much in writing her own kind of fairy tale for herself — starting a nonprofit, becoming Student Government Association chief of staff and working as RaiseRED programming director — but her college dreams are nowhere near the final chapter.

Following a successful first year in Louisville, Thom hopes to expand She Became’s reach to more Kentucky schools and three additional states next school year.

And in the process of achieving her goals, she became — and encouraged young women to become — exactly what society needs: more.

ONLINE: For more information, visit shebecame.org.

Nico Thom, upper right, and She Became participants from Fern Creek Elementary.



TRAINING FOR TRAGEDY

MADISON KOMMOR BEGAN
A FIRST-OF-ITS-KIND
PROGRAM FOR FUTURE
MEDICAL STUDENTS TO
PREP FOR DISASTER

BY ERICA WALSH



Madison Kommor demonstrates disaster medicine training at the School of Medicine.

► Medical students and first responders participate in the mass shooting drill planned by Kommor.

When the first explosions and gunshots echoed across UofL's Health Sciences Center, fourth-year medical student Madison Kommor almost forgot they were simulated. The sounds were deafening, he smelled smoke, and his adrenaline spiked. As the scene unfolded, he saw SWAT team members running across the downtown quad, shooters aiming at passers-by and actors playing victims falling to the ground.

But most importantly, he saw UofL medical students putting their training to work.

The drill took a full year of planning for Kommor, who completed it as the capstone project required for his medical school program. It was also the culmination of a two-year certificate series he started to train medical students for mass casualty disasters. That series, created in tandem with associate professor of pediatrics Bethany Hodge, director of the Global Education Office, is the first such published certificate series for medical students in the country and perhaps the world.

"No one is learning this and everybody wants to learn this," Kommor said. "It is not in any standardized curriculum — or very, very few. And a majority of people going into med school today feel like this is supposed to be part of the job."

Disaster medicine, a specialization that teaches care for injured patients and medically related disaster preparedness, is often taught when physicians reach their residency. But as mass shootings and natural disasters, such as the 2017 hurricanes in Puerto Rico and the Caribbean, became more prevalent, Kommor and Hodge decided they could fill an educational gap for medical students.

"We wanted our students to become familiar with this world that's out there," Hodge said. "To feel more comfortable as a physician and to know this is our role and how we can help."

"It was kind of a tragic coincidence that a lot of mass shootings occurred right when we were starting this," Kommor said. "The Vegas shootings, the Parkland shooting. A lot of medical students were sick of sitting in the library, getting another text about a mass shooting and realizing 'I have no idea what I would do if that happened here.'"

More than 130 students took part in the certificate series, which is now the medical school's largest supplemental program. To earn the certificate, students attend training sessions and lectures from community agencies including Louisville Metro Police, Louisville SWAT, first responders and fire departments, specifically centered on how medical personnel fit into

disaster response. Kommor also trained a group of medical students to lead the series with Hodge after his own graduation.

For the drill, Kommor developed a mass shooting scenario and adapted a plan from a Federal Emergency Management Agency training that he and Hodge attended. Forty UofL students portrayed victims, complete with movie-quality wound makeup, while more than 20 students acted as medical personnel. Eleven agencies, including first responders from LMPD and EMS, also participated, making it one of the largest-scale drills that the city has seen.

"It definitely changed some perspectives," Hodge said. "To be able to see what would we as a community do if something like this happened at Derby? Or what if it's something like Hurricane Katrina where there are fires and floods city-wide? We all feel this innate responsibility to learn our skill sets."



For Kommor, the training was more than just technical, it was personal. Like many physicians, Kommor got into medicine because he wanted to make a difference. He also wanted to ease the unrest he felt when he would hear in the media about yet another a tragedy, and he knew he wasn't alone among his peers in those feelings. As Hodge pointed out, doctors don't like to feel powerless.

"Even as far back as Sandy Hook, it was like the whole country was feeling an overwhelming sense of restlessness," Kommor said. "It all comes from fear. What I wanted to do with this certificate was to say if you come to this, you'll be one little bit better, one little bit farther away from that feeling of hopelessness you had before, and you'll at least have an avenue to be a little more prepared."



by Judy Hughes

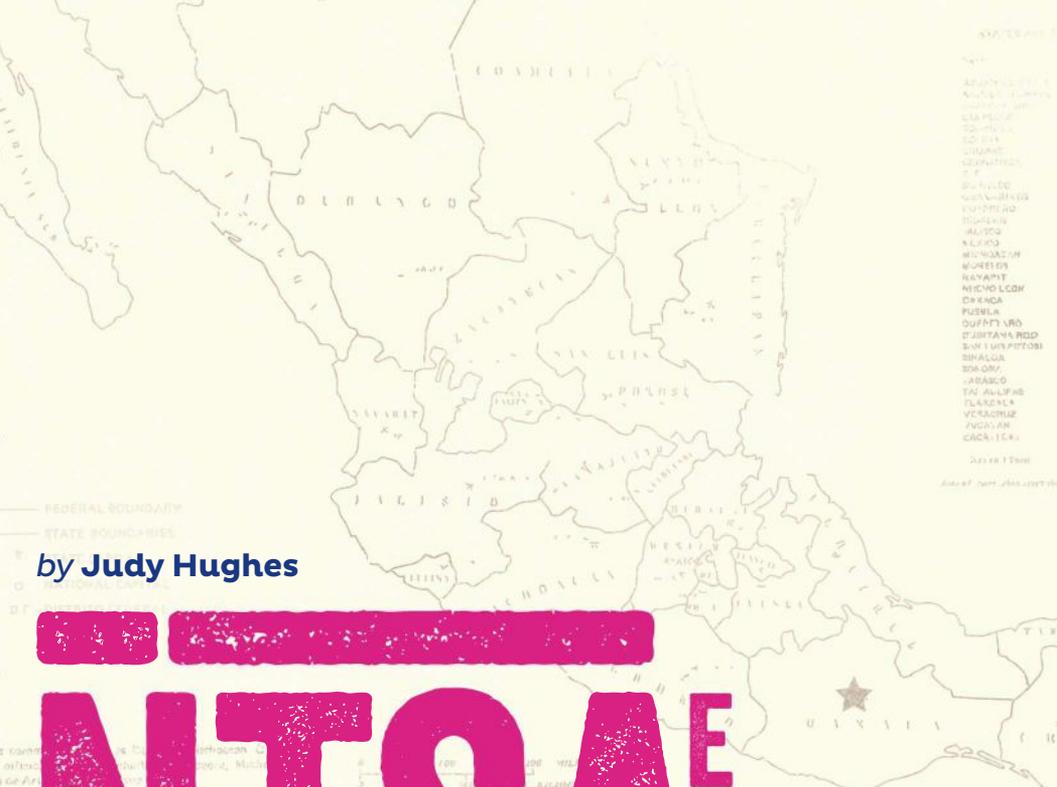
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**Translation:*

So to speak

*Linguist's quest to share native language
is personal, professional*



a mother reading a bedtime story to her child is a universal image that evokes a nostalgic smile.

But what if that woman could not do so in her native language? What if the language of her childhood had no written form, no alphabet?

This situation was a reality for Hilaria Cruz. “I was kind of sad,” she recalled wistfully.

Cruz, as a child, spoke the tonal language Chatino in her southwestern Mexican hamlet. When her family moved to the district capital for education, the preteen girl had to learn Spanish by total immersion. Years later, in 1991, she was learning a third language through English as a Second Language (ESL) classes in the United States.

Now a field linguist, Cruz is an assistant professor of comparative humanities, where she will add to her fall class schedule a new course on endangered languages such as her childhood Chatino, and a variation called San Juan Quiahije.

This summer, she will be teaching the language to Mexican families using children’s books that she and former students published. By videotaping the parents reading, Cruz intends to broaden the impact of the lessons via social media. Cruz and her sister, Emiliana, a linguistic anthropologist, will give away some books in Oaxaca City, Mexico City and San Juan Quiahije.

To accomplish this, and at last to be able to read to her now-adult daughter in Chatino, Cruz faced the intimidating task of creating an alphabet.

“An ideal alphabet should be able to explain with symbols all the thoughts a person has in their mind,” Cruz said.

An estimated 70% of the world’s spoken languages are tonal with the best known being Mandarin Chinese. Roughly one billion people speak Mandarin. Chatino speakers number about 40,000 to 50,000.

In tonal languages, the words’ meaning changes with the melody, so to speak, with a complex system of high, low and mid tones, and rises and falls in pitch distinguishing the differences. So the same general spelling could mean various things, depending on the speaker’s pitch; Cruz shared the example of a



“If we lose one of their languages, we are losing a knowledge that a group of people developed.”

word (kla) that can mean fish, dream, stream or the expression “you will arrive” — all intoned with slight differences.

For her alphabet, Cruz assigned different capital letters to the pitches and used those letters in her notations next to each word. So kla^A means fish while kla^F means dream.

Cruz never had the chance to study Chatino grammar before her family relocated. Although Mexico has various languages, indigenous children were forced to learn Spanish, the country’s dominant language, when they pursued formal education. The result, in Mexico as in other countries, meant lost fluency and the endangerment of native languages as students integrated themselves into a more homogenous culture.

Just as her family wanted its daughters to gain that more advanced schooling, Cruz’s father encouraged her to go to college.

Cruz moved to the U.S. in 1991 and enrolled in English classes in Washington. Learning about the linguistics field, she thought maybe it could help her develop a written Chatino language, so she wrote to various linguists seeking guidance.

Her academic trek led her to the University of Texas at Austin, where she earned her

doctorate. Graduate field work drew her back to where Chatino was spoken. After recording political speeches and spoken prayers, she laboriously typed all the sounds, yielding more than 100 hours of archived speech that she analyzed for her dissertation.

While a Dartmouth University postdoctoral fellow in 2018, Cruz taught an undergraduate language revitalization course, helping students develop children’s books in indigenous North American languages with no English translations.

To start the project, she turned to her mother, a seamstress who stitched blank cloth books. A student drew the images, which they transferred on paper and ironed onto the pages. Their books featured the North American languages Chatino, Ojibwe and Hupa.

Later the picture books were published on more durable stock, like common early childhood books. Those are the books the Cruz sisters are distributing this summer when they travel back to Mexico and plan to share more broadly via videos on social media.

Cruz’s work attracted attention lately when she was interviewed for podcasts including “Lingthusiam.” She also attended a conference last summer that united people from various backgrounds — computer science, linguists, native speakers — looking for ways to preserve “small” native languages before their remaining speakers die out in cultures taken over by “big” languages spoken more widely.

“Many people will say, ‘Why do I have to know that?’” Cruz said. “If we lose one of their languages, we are losing a knowledge that a group of people developed.”

As part of a preservation effort, Cruz hopes someday that schools would be able to use indigenous languages for instruction and that automatic speech recognition devices such as Alexa and Siri could respond in minority languages such as Chatino.

She has allies. Noting the cultural loss of disappearing languages, the United Nations has declared 2019 the International Year of Indigenous Languages to encourage action to preserve, revitalize and promote them.

“It’s part of the creative capacities that we humans have and that is why we as humans should value it,” Cruz said.

THE DISRUPT

UofL professors are upending the way the world works by bringing futuristic technologies to the present

BY BAYLEE PULLIAM

Disruptive technologies are — well, they're disruptive.

They have the power to create and upset whole industries and change how we live and work. Think shopping before the internet, travel before planes and cars or even cooking before fire.

According to the DaVinci Institute's Thomas Frey, one of Google's top-rated futurists, more of these disruptive technologies may be on the rapidly approaching horizon. When he spoke in Louisville earlier this year, he outlined eight of them: sensors, flying drones, driverless cars, 3D printing, virtual and augmented reality, internet of things, artificial intelligence and cryptocurrencies/blockchain.

Here's how trailblazing researchers, inventors and innovators at UofL are working to advance these technologies.



SENSORS

Sensors can efficiently and automatically collect information, such as location, temperature and pressure. Cindy Harnett is using them to build better athletes

She's invented stretchable, thin sensor technology that can be woven into fabric. The idea is to create smart-technology clothes or wraps you can wear as you bike, run or lift.

"We can track things that have always been happening but we didn't have the data on," said Harnett, an associate professor of electrical and computer engineering. "And we can do it without invading people's privacy."

Harnett's technology, patented through UofL's Commercialization EPI-Center, can measure the strain on muscles during athletic activities — the "player load" — which can tell us about physical limits, form and technique. That's information we don't necessarily get from current athletic performance measures.

Outside of athletics, Harnett said sensors have the potential to impact or completely disrupt many industries including manufacturing, public health and logistics and distribution.

O R S

FLYING DRONES

Flying drones can navigate and gather information where humans can't. Say, over large territories or in dangerous, potentially life-threatening circumstances. That ability makes drones perfect for surveillance and monitoring, according to Adrian Lauf, assistant professor of computer engineering and computer science and director of UofL's Aerial Robotics Lab.

"I've always thought 'what could we do if we take multiple aircraft, attach sensors to them and allow them to be part of the picture?' " Lauf said.

He predicts we would need many, inexpensive bots working together. His lab is studying wireless sensor networks, which would allow groups of drones to work as a team, coordinating navigation and group decision-making, and reporting the information they gather back to a central location.

Lauf believes drones could inventory what structures are still standing after a natural disaster and look for survivors. In agriculture, they could gauge the health of crops. For major public events, such as concerts or the Kentucky Derby, drones could map traffic patterns.

“
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LAUF



SIDDIQUE

DRIVERLESS CARS

Autonomous vehicles—cars that can drive themselves—are already being explored by everyone from BMW to Uber. Doctoral student Parag Siddique is trying to figure out where and how all of those self-driving cars would park.

He's especially interested in urban areas, where there are lots of people and space is scarce. Self-driving cars might be an opportunity to use that space more efficiently through automation.

"This doesn't require new parking lots. It's a better use of existing ones," said Siddique, whose work is with the Logistics and Distribution Institute at the J.B. Speed School of Engineering. "All you need is an algorithm."

Siddique proposes an "automated valet" in smart parking lots that packs cars densely together. His idea was inspired by current warehousing research and a game called "Rush Hour," where a player tries to remove one car piece from a board of them packed tightly together.

With the automated valet, drivers—er, passengers—would open an app and surrender control of their self-driving car to the lot. The lot would then automatically move the cars into available spots, packing them densely together to maximize space.



“I see the pathway to a multibillion 3D printing economy in Louisville. It’s not unrealistic.”

3D PRINTING

Your desktop printer can print words or pictures onto a sheet of paper. But 3D printers can print actual, tangible things, like prototypes, machine parts and even jewelry.

Sundar Atre hopes to build that technology into Louisville’s economy through his newly launched Louisville Additive Manufacturing Business Alliance, or LAMBDA.

“I see the pathway to a multibillion 3D printing economy in Louisville,” said Atre, a professor of mechanical engineering and endowed chair of manufacturing and materials. “It’s not unrealistic.”

3D printing, also called additive manufacturing, can help businesses quickly innovate and lower costs for prototyping and manufacturing. The technology has applications across many industries, including dentistry, automotive manufacturing, defense, health care and construction.

With LAMBDA, launched last year with a U.S. Department of Commerce grant, Atre hopes to make this technology accessible to everyone. The alliance is working to open a business incubator and workforce training center in West Louisville, with the goal of helping minority-owned small businesses innovate and grow.

“The goal is to create a pathway for inclusive innovation,” Atre said. “It’s not where we are now—it’s how far can we go? And how fast are we hurtling toward that potential?”

VIRTUAL REALITY AND AUGMENTED REALITY (VR/AR)

Virtual reality (VR) technology creates immersive simulations that allow you to explore new worlds or try new things. Augmented reality (AR) overlays those simulations on our real world—similar to Snapchat filters or “Pokémon Go.”

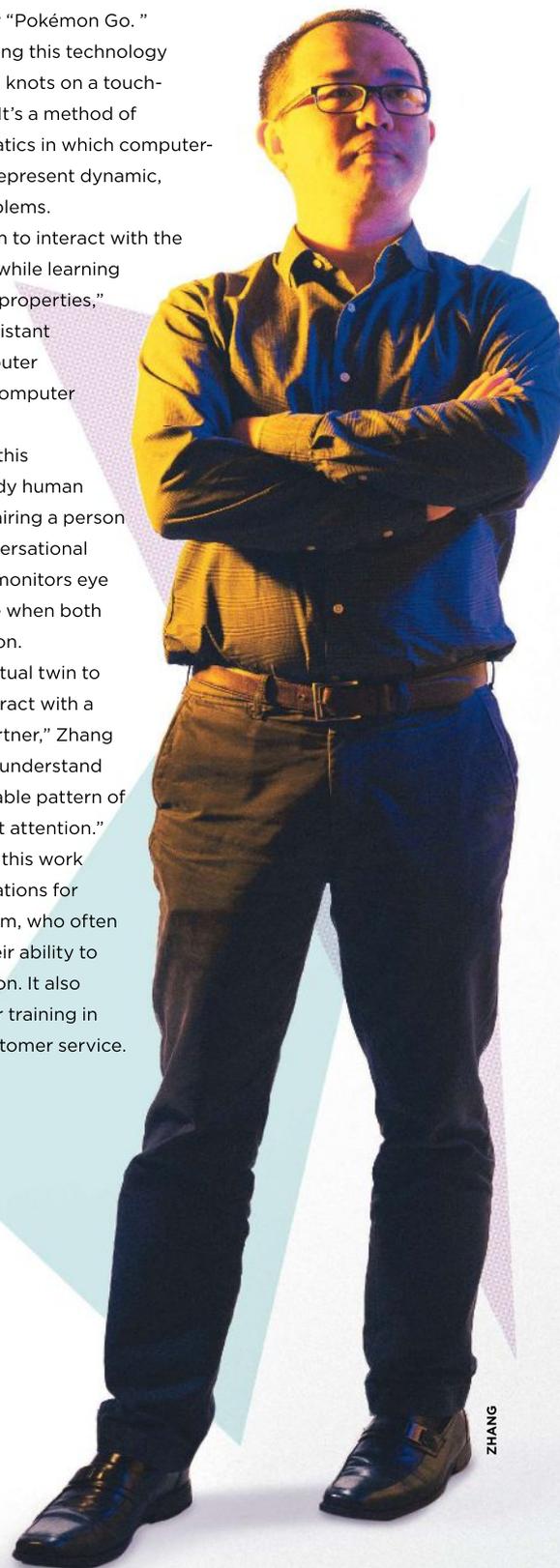
Hui Zhang is using this technology to untangle virtual knots on a touch-screen computer. It’s a method of teaching mathematics in which computer-generated knots represent dynamic, difficult math problems.

“VR allows them to interact with the concept virtually, while learning the mathematical properties,” said Zhang, an assistant professor of computer engineering and computer science.

He’s also using this technology to study human behavior. While pairing a person with a virtual conversational partner, his team monitors eye movements to see when both are paying attention.

“We use this virtual twin to study how we interact with a conversational partner,” Zhang said. “We want to understand the statistical, reliable pattern of how we reach joint attention.”

Zhang predicts this work could have applications for children with autism, who often have a delay in their ability to reach joint attention. It also could be useful for training in negotiation or customer service.



ZHANG



ZENG

INTERNET OF THINGS (IOT)

Many homes today have a smart assistant, like Amazon's Alexa or Google Home. The devices allow users to check the weather, play music or control smart electronics, like their TV or lights, with a simple voice command.

Together those things, connected to the internet, make—well, they make an “Internet of Things,” which Huacheng Zeng studies at UofL.

“We want to make everything smart,” said Zeng, an assistant professor of electrical and computer engineering.

But connecting things to the internet comes with challenges—security, for one. Zeng's invented a technology—patent pending through the Commercialization EPI-Center—that tackles security issues by jamming signals that hackers could use to tap into smart devices and steal information.

There's also the challenge of actually getting those smart devices connected. Devices connect to wireless internet, WiFi, using radio waves, and there's only so much radio spectrum available.

Zeng has a career grant from the National Science Foundation to solve that problem. His technology would allow multiple devices to share the same radio waves.

ARTIFICIAL INTELLIGENCE (AI)

Most jobs require a certain degree of intelligence. Whether that intelligence is human or artificial—well, that's a question for Dan Popa.

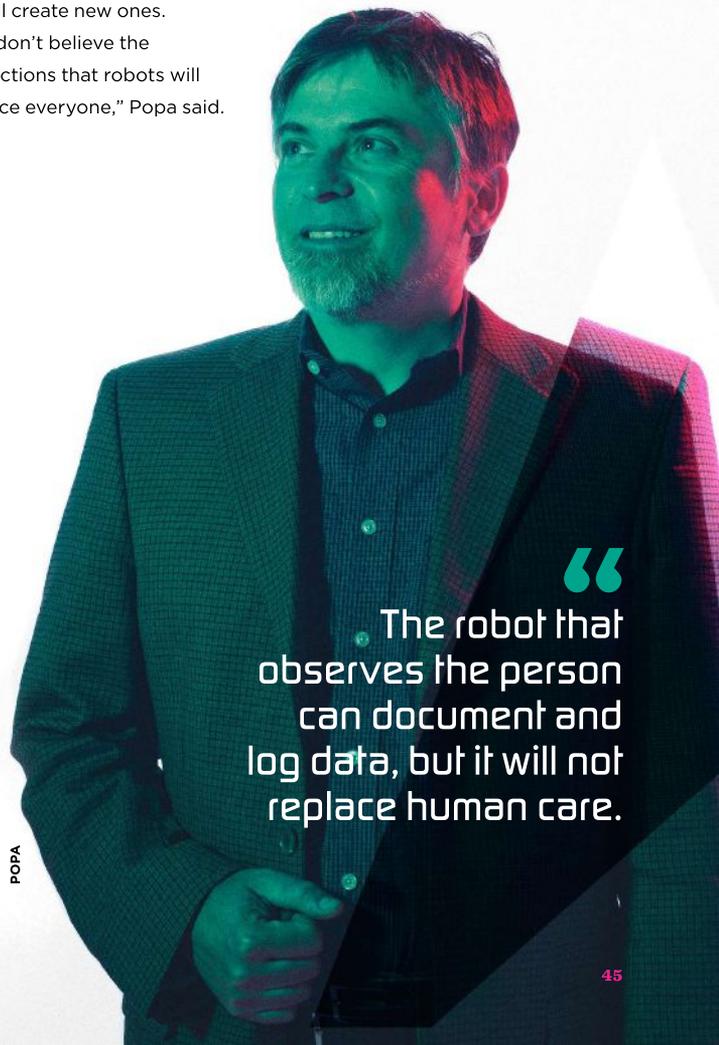
Popa is developing artificially intelligent robots that could work in manufacturing or nursing. The latter would serve as a nursing assistant, collecting information and retrieving cups of water so human nurses can focus on more important things.

“The robot that observes the person can document and log data,” said Popa, a professor of electrical and computer engineering. “But it will not replace human care.”

The nursing assistant robot is patent-pending through the Commercialization EPI-Center. It's currently being tested at the School of Nursing.

Popa understands people have concerns about artificial intelligence. If this has you worried that robots will come for jobs, don't. Most robots aren't reliable enough yet and still need “chaperones” to show them where to go, what to do and keep them out of trouble. And even if robots take over some jobs, Popa thinks they'll create new ones.

“I don't believe the predictions that robots will replace everyone,” Popa said.



POPA

“
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YAMPOLSKIY

CRYPTOCURRENCIES/BLOCKCHAIN

You've probably heard of bitcoin, one of many currently available cryptocurrencies. These cyber monies are increasingly popular in today's digital economy as an alternative to tangible money, and they come in all different flavors.

"Some come with interest, some invest for you," said Roman Yampolskiy, an associate professor of computer science and computer engineering and director of the Cybersecurity Lab. "Each comes with its own perk."

Cryptocurrencies are built on blockchain technology, which is best described as a ledger spread across the thousands of systems all over the world. It's an open, distributed and unchangeable log of transactions that encrypts and timestamps when the currency changes hands. That "unchangeable" nature gives the technologies potential uses across industries including banking, health care, media, retail and government.

Yampolskiy is looking at how we can use these transactions to send text and media messages.

"The decentralized nature of the blockchain allows power to be taken from the governments and corporations and returned to the people," Yampolskiy said. "It is a powerful tool for fighting censorship, privacy violations and asset seizures."

PREPARING FOR A SOCIAL HURRICANE

UofL's own futurist, Nat Irvin, assistant dean for thought leadership and civic engagement in the College of Business, thinks technology will disrupt more than the economy alone. Here, he shares the double-sided storm he sees coming society's way.

Two powerful forces of the future — an ever-expanding surge in technology and a dramatically different human population — are converging right before our eyes.

In the summer of 2016, I joined a couple of my baby-boomer friends to travel to a small town in Ohio ostensibly to view the remnants of a 2,000-year-old American Indian mound.

It was nearing dusk when we arrived and thus we were quite surprised to see so many young people who had also gathered to observe this part of our American history. But as we began our tour, we quickly discovered the young crowds were not there to see the ancient burial grounds. They were "Pokémon Go" seekers, searching for futuristic augmented reality creatures like Pikachu, Squirtles and Rattatas. While we boomers were looking for the past, this next-gen crowd was searching for invisible creatures of the future that had nested themselves right where we stood.

We could not see the Pikachu, but the teens could. Using the lenses of their smartphone cameras, embedded with smart sensors and GPS coordinates,



IRVIN

the mobile game players literally transformed the ancient American Indian burial grounds into a physical-world mirror image filled with virtual creatures. The fervor around "Pokémon Go," which swept the globe in 2016, has somewhat faded but the underlying convergence of the real world colliding with the virtual world was only the beginning.

As artificial intelligence (AI) becomes cheaper, we can expect our existing physical structures will be impacted by some aspect of augmented reality. Our computers will start to disappear, replaced by smart sensors embedded not only in our physical structures such as buildings, roads, cars, homes or centers of faith, but also in the clothing we wear, our shoes, the food we consume, diapers for our newborns, latrines that collect our waste, trees that we plant, pets that keep us company. Even our physical bodies will be transformed with some variations of smart sensors.

But that's not all. The crowd of teens we witnessed that summer of 2016 also reflects a change in the human faces who might seek the Pikachu of the future, virtual or real. By 2020, the entire population of those under the age of 18 will be majority non-white and by 2030, the entire age 30 and under population will also be majority non-white.

Within 10 years, all of our existing structures — and their supporting institutions led by humans — will undergo dramatic changes, both virtual and real.

We will experience a social hurricane.



Cardinal Proud

UofL alumni, students, faculty, staff and friends practiced their parade waves and celebrated Pride during the 2019 Kentuckiana Pride Parade. The university has made known its commitment to diversity, equity and inclusion, and the efforts of the LGBT Center, Pride Alumni Council and others have been recognized by several organizations. Last year, UofL received a number one ranking from LGBTQOutfitters on its top 10 list of best campuses for LGBTQ students, was listed in the Campus Pride's Top 30 Best of the Best LGBTQ-Friendly Colleges & Universities, and was ranked 24th list of LGBTQ-friendly and affordable colleges in the U.S. by Affordable Colleges Online.

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spotlight

JESSICA POTTER

alumna



“What do you want to do after graduation?”

“Work here,” said stage manager Jessica Potter, while interning at the acclaimed Actors Theatre of Louisville during her undergraduate years.

And she did.

In May, Potter, who earned a degree in theatre arts, will mark 10 years as a stage manager, which she calls “problem solving.” Putting out fires, sometimes literal ones, without the audience knowing is what she loves about her job.

At UofL, Potter realized her love of stage

management and was instrumental in getting technical classes into the curriculum with the help of local theatre artists and faculty. Today, she hopes to broker pathways for students to find internships and work in the arts.

“Helping to support those who are passionate about theatre to go into communities is important because theatre speaks to people,” Potter said. “It teaches. It opens minds to different thoughts. If we support young theatre artists, it only improves our communities as a whole.”

from the assistant vice president

Every year during Commencement, our Louisville alumni network grows stronger and ventures out, committed to making a difference in communities all over the world. On behalf of all our alumni and friends, we congratulate the Class of 2019 graduates on your hard work, and we are eager to see where you will land now that you've flown from the nest.

As any Louisville graduate knows, the Kentucky Derby marks the end of the school year and the beginning of summer break. This year, alumni chapters across the nation hosted their own Derby parties, complete with mint juleps, big hats and southern traditions. We continue to open new alumni chapters, most recently forming in Austin, Cleveland, Richmond and Twin Cities. It's inspiring to see so many alumni taking pride in their alma mater and continuing their involvement with UofL, even after they've left the university. This only goes to show that no matter where you go after receiving your diploma, Louisville will always welcome you home.

This fall, we look forward to welcoming you back with open arms during Homecoming Week Oct. 21-26. Last year, we hit momentous records through Raise Some L, our Annual Day of Giving, and we plan to beat that record during this year's Homecoming. We will need your help again this year, so please be ready to show your support.

In conjunction with Homecoming Week, we also invite you to join our Oct. 24 Alumni Awards event where we'll recognize



distinguished graduates who are exemplary ambassadors for the university. This is a wonderful way to celebrate the accomplishments of our alumni, schools and colleges. Stay connected on our website and social media platforms to learn more about the events we're planning for this year's Homecoming Week.

It's been a great year and I am thankful to all of you for keeping our UofL family strong. I would especially like to thank Neeli Bendapudi, who just completed her first full academic year as our president. Her strategic planning process has hit the ground running and our community is determined to make the university a great place to learn, work and invest. When we all stand together and look into a brighter and better future, anything is possible.

As always, please contact us and let us know how we can help keep you engaged as we work together to form a bolder future for the next generation of Louisville alumni.

Go Cards! #WeAreUofL

Josh Hawkins

Assistant Vice President

Alumni Relations and Annual Giving

josh.hawkins@louisville.edu or 502-852-7002

Save the date

INAUGURAL LOUISVILLE CARDINALS FOOTBALL GOLF TOURNAMENT

July 25- 26, 2019

The Inaugural Louisville Cardinals Football Golf Tournament, hosted by Scott Satterfield and Republic Bank.

CARDS UNDER THE STARS — "RALPH BREAKS THE INTERNET"

Aug. 2, 6:30 p.m.

"Ralph Breaks the Internet" will be the third film in Cards Under the Stars, UofL's free, outdoor summer movie series.

2019 SCHOOL OF DENTISTRY REUNIONS

Aug. 16-17

On behalf of the UofL School of Dentistry and Louisville Alumni, you are cordially invited to attend a reunion weekend.

2019 WELCOME WEEK: LOUISVILLE ALUMNI PICNIC

Aug. 16, 11:30 a.m.

New students are invited to enjoy lunch on us! We will have food, music, swag and fun!

2019 SCHOOL OF MEDICINE REUNIONS

Sept. 20-21

Join fellow alumni for a welcome reception, class reunion dinners and tours of the School of Medicine.

2019 ORTHODONTIC ALUMNI COUNCIL ANNUAL MEETING

Sept. 26-27

Alumni, friends and colleagues are invited to another meeting for learning and fellowship.

SCHOOL OF MUSIC ANNUAL 5K RUN/WALK

Sept. 28, 9 a.m.

Run or walk for a great cause during our annual 5k, hosted by the Alumni and Friends of the School of Music.

HOMECOMING WEEK

Oct. 21-26

Events include the Alumni Awards, Raise Some L, Cards Come Together service event, Golden Reunions for the classes of 1968 and 1969 and the Homecoming football game vs. Virginia.

For a listing of offerings by the Louisville Alumni office and its volunteer groups or alumni chapters across the country, please visit uoflalumni.org/events.

For the most up-to-date information on campus events, including times, location and cost, please visit events.louisville.edu.

WHAT'S NEW? Share career updates, relocations, awards, achievements and any other life news about the individuals who make UofL a dynamic and diverse academic community. Send your notes to alumni@louisville.edu.

1960s

John H. Minan '65 was a 2018 keynote speaker at the Kuwait International Law School, presenting on global clean water issues. In April 2019, he was invited to address the Kuwait International Conference on the topic of climate change. His papers are published in the Kuwait International Law School Journal.

1970s

Patrick Moore '70, '84 produces the weekly "Louisville Late Night TV Show" every Thursday on Spectrum cable. // **Honi M. Goldman '72** was nominated as one of five 2019 Most Admired Women in Politics by Today's Woman. Goldman is the founder and chair of Reproductive Rights for Kentucky, a federal political action committee established in 2013.

1980s

Milton R. Dohoney Jr. '81 was recognized for his public service with the Catherine F. Connolly Outstanding Assistant City/County Manager Award by the Arizona City/County Management Association. The award was presented at the association's winter conference in Sedona, Arizona. // **Virginia R. Callan '83** passed the Federal Aviation Administration exam for commercial remote pilots and received a rating of UAG (Unmanned Aircraft-General)—a day before her 84th birthday. Her next step is to focus on her Uplifting Aerial Videography LLC business which will also include regular videography. // **Rebecca R. White '87** is celebrating 40 years as an Ursuline Sister of Mount Saint Joseph.

1990s

Steven L. Skaggs '91, '01 was named a board director of the Kentuckiana Post of the Society of American Military Engineers. // **Rachel B. Grimes '93** premiered her folk opera "The Way Forth" with the Louisville Orchestra. // **Michael P. Maxwell '04** was elected a partner at Potter Anderson & Corroon



David D. Cobb Jr. '94 accepted a position as the senior consultant/director of external partnerships with Ashley|Rountree and Associates.



Katie Bennett '12 joined Latitude as the director of legal recruiting and placement in the Nashville, Tennessee area.

LLP. // **Sagar Lonial '93**, chief medical officer for Winship Cancer Institute of Emory University and chairman of the department of hematology and medical oncology, was honored with the Anne and Bernard Gray Family Chair in Cancer. The endowment honors the life of Anne Gray's sister, Karen Ammons Howell, who died of breast cancer.

2000s

Alejandro Ramirez '03, '08 founded Universal Spartan LLC, a defense contracting business that serves as a hub for federal government product sourcing solutions for tactical, information technology, electrical and medical equipment. This stems from his experience, education, knowledge and network of suppliers gained from serving 22 years in the U.S. Army. // **Adam Watson '05, '07** is the digital learning coordinator for Shelby County Public Schools. He was named the Kentucky Society for Technology in Education's Outstanding Leader of the Year for 2018-2019, which recognized his work in educational



instructional technology both inside and outside Kentucky. // **William H. (Bill) Brammell Jr. '06** was named a partner in the Louisville office of DBL Law, where he practices primarily in the areas of civil and commercial litigation and white-collar criminal defense. // **Erin Davis '08** relocated to Atlanta, Georgia, and took a position as the thoracic team supervisor for the clinical trials office at Winship Cancer Institute of Emory University.

2010s

Mallory Taylor '15 accepted the position of manager of recruitment and guest services in residential life at Louisiana State University, overseeing daily housing tours at LSU. // **Amy Goodson '17** was promoted to director of learning and education for Service One Credit Union in Bowling Green, Kentucky.

Join UofL & Commonwealth Credit Union
for the final Cards Under the Stars 2019!

Nick DeMartino '70

When Nick DeMartino graduated from UofL in 1970, there wasn't much of a digital landscape. But he saw change on the horizon and has spent his life shaping technological advances that have revolutionized the way people communicate.

After graduating with a humanities degree, DeMartino relocated to Washington, D.C., for a position as editor with the College Press Service where he was tasked with reporting on Congress and the Nixon White House.

"Though, I did more editing than actual reporting," DeMartino said.

At the time, cable television was a burgeoning technology. DeMartino saw its potential as a localized video communication tool for public access and used it to found an early community television nonprofit called the Washington Community Video Center.

"Our idea was that everyone should be able ... to have a voice," DeMartino said.

DeMartino had a passion for equal access which followed him to Hollywood's American Film Institute, where he was brought on to develop the AFI-Apple Computer Center for Film and Videomakers. This led to the world debut of QuickTime, which still powers most forms of digital media today.

Today, DeMartino works doing what he loves as a consultant in Los Angeles.

"Working with young entrepreneurs is exciting, because they are passionate about their companies and want to change the world," DeMartino said.

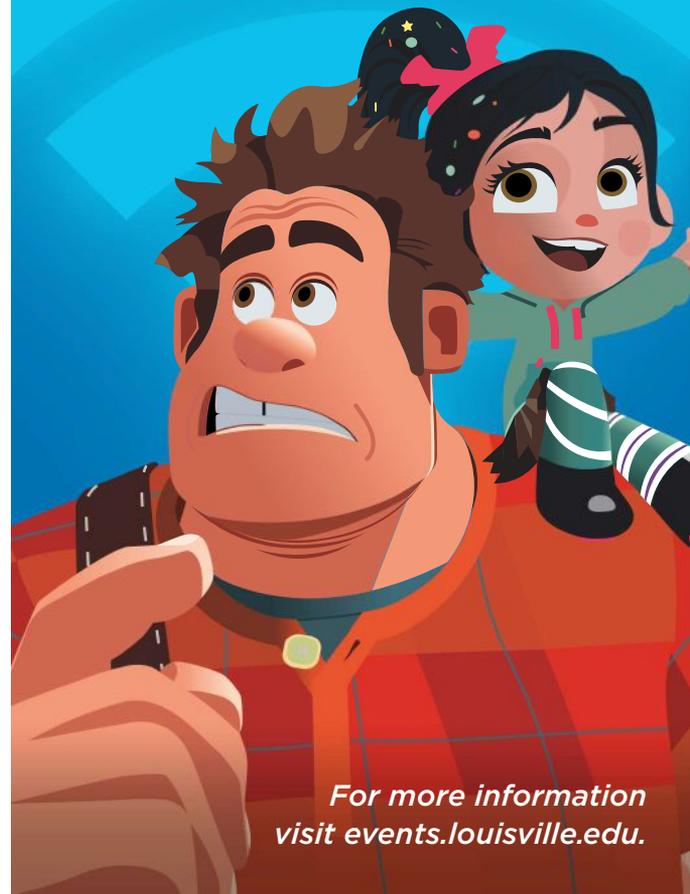
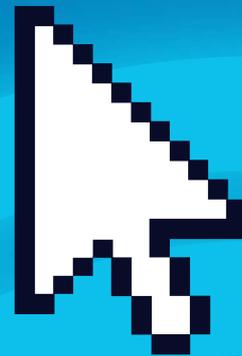
In the digital world, that change is constant. DeMartino recalled a moment when he showed famed director Robert Wise early versions of AFI's QuickTime video work, about which Wise commented, "That's just great. You know, when I was starting out, sound was new."



RALPH BREAKS THE INTERNET

Aug. 2nd, 6:30 p.m.

*Natural Sciences Lawn,
Belknap Campus*



Growing the Card Family



Tyler Spear '11 and
Stephanie Spear
welcomed their
second son,
Nathan James, Jan.
11, 2019.

For more information
visit events.louisville.edu.

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Providing a path for exploration

Student scholarship supports conference travel

FOR A STUDENT RESEARCHER, the experience of presenting at conferences is invaluable. But for a college student, the ability to attend such events comes at a significant cost.

The School of Nursing's founder, the late Ruth B. Craddock, created a program that has shaped the careers of students and alumni pursuing research.

Craddock, who died in October, established the Ruth B. Craddock Endowed Fund for Student Research after her 1995 retirement. The fund helps nursing students defray expenses associated with research projects. Grants awarded cover data collection equipment and supplies for nursing doctoral candidates' dissertation projects as well as mentored experiences and expenses associated with students who present at research conferences.

Jade Montanez Chatman received financial support from the fund to present research at regional nursing conferences when she was an undergraduate student and recently as a doctoral student.

"Being able to present your work and connect with other researchers was crucial for me," Chatman said. "Those connections impacted my trajectory as a nursing researcher. Seeing what other nursing programs were doing, meeting nursing researchers whose work you have read and having conversations with prominent people in the field was unique."

While an undergraduate research scholar, Chatman developed an interest in minority health disparities when she worked with a nursing faculty member on a study of social factors that impact African-Americans with diabetes. Chatman helped with study recruitment, assisted with participant questionnaires and input data. The experience inspired her to pursue a

nursing research career path.

Currently, she is piloting a research project to identify and describe cultural, social and scholastic factors influential to a postsecondary nursing program as perceived by a sample of underserved and minority students in a high school pre-nursing program. The findings will serve as a basis for an intervention study focused on high school students interested in nursing, which will be her dissertation.

"The Ruth Craddock endowment is really appreciated because being a broke college student and trying to go to research conferences is expensive," Chatman said. "Focusing on students engaging in research is truly needed and I'm thankful that Ruth Craddock made that contribution."

Heather Hardin '12, assistant professor at the Frances Payne Bolton School of Nursing at Case Western Reserve University, received Craddock endowment grants four times as she earned master's and doctoral degrees in nursing at UofL.

The funding allowed her to attend conferences where she presented research, attended workshops on negotiating a faculty job and interviewed for and accepted a postdoctoral training position.

"The Ruth Craddock funding was instrumental in supporting my research career, the development of my professional network and my leadership trajectory," Hardin said. "I not only presented my research regionally and attended pre-conference workshops, but I also started the Emerging Scholars Network (student and early career nurse scientists committee) at the Midwest Nursing Research Society, where I am now on the board of directors."

ONLINE: Information about the scholarship and how to provide student support is available at fundforuofl.org.



David Cowan Buckingham '77

The newest member of Kentucky's Supreme Court is a Louisville Cardinal.

Alumnus David Cowan Buckingham was sworn in to that court April 8.

Buckingham began his 29-year judicial career in 1982 as a district judge for the 42nd Judicial District. Following that role, he served as circuit judge for the 42nd Judicial Circuit and as a court of appeals judge, eventually becoming the senior judge in Kentucky's Court of Appeals.

After serving as an appellate judge for 14 years, Buckingham retired in 2011 and returned to private practice. For eight years, he has served as counsel for both the Adams Law Firm and the Murray Independent School District. He has assisted and consulted with other attorneys in appeals cases and litigation as well.

It was during this time that current Louisville law student Craig Lamb became acquainted with Buckingham. Lamb served as Adams Law Firm's clerk from 2013 to 2018 and speaks highly of his experiences working for the judge.

"I consider Judge Buckingham to be a mentor who has had a significant impact on my life to date and who contributed in a large part to my decision to pursue legal education at Louisville," said Lamb, a second-year law student. "Judge Buckingham is an extremely noble man, and I believe that compels others to follow his footsteps. He is thoughtful, articulate and thorough—all qualities that will make him a great Kentucky Supreme Court justice."

Welcome



UOFL HOMECOMING - OCTOBER 21 - 26

UOFLALUMNI.ORG/HOMECOMING



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ALUMNI.**

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Fostering faith and diversity

LGBT students of Catholic faith have another avenue for support at UofL

Greg Bourke '79 and Michael DeLeon, who were plaintiffs in the landmark 2015 U.S. Supreme Court case *Obergefell v. Hodges* that established marriage equality, created a scholarship to help LGBT students of Catholic faith pay for college.

The endowed scholarship will be awarded annually, giving preference to LGBT graduates of Catholic high schools or LGBT UofL students who are Catholics.

Bourke, who earned a degree from the College of Arts and Sciences, feels a commitment to foster LGBT Catholic youths' faith.

"LGBT Catholic youth need to be supported and nurtured in their faith," he said. "Our hope is that this scholarship will encourage LGBT Catholics to remain faithful and work to eliminate all discrimination and inequality in the Catholic Church. I believe that is our call as Christians: to help build up God's kingdom."

Bourke met DeLeon while attending graduate school at the University of Kentucky in 1982. The couple, named "Persons of the Year" in 2015 by the National Catholic Reporter, were legally married in Canada in 2004 and are lifelong practicing Roman Catholics. They currently serve as members of the UofL LGBT Alumni Council.

Lisa Gunterman, director of the Belknap Campus LGBT Center, is grateful to the couple for their commitment to LGBT youth. The scholarship awarded its first gift in June.

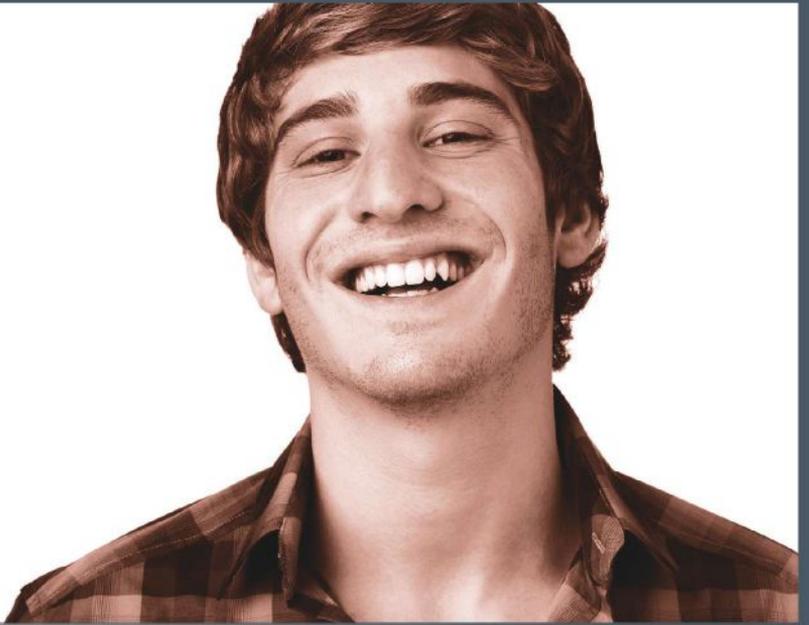
"I'm humbled by the ongoing support the center has received from Greg and Michael over the years, both as members of the UofL LGBT Alumni Council and now with the creation of their scholarship," she said.



ONLINE: For more information on the scholarship, visit fundforuofl.org.

DeLeon and Bourke on Belknap Campus.

5 acceptances. | 1 favorite.



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spotlight

LOUISVILLE TANGO FESTIVAL

donor

The Louisville Tango Festival, in its fourth year of bringing the spirit of Buenos Aires to downtown Louisville, has taken steps to benefit UofL.

As the festival began to grow in popularity, organizers started looking for ways to give back to the community that had so readily embraced them. Using event proceeds, they created a scholarship for Latin American and Hispanic students pursuing a UofL graduate or undergraduate degree.

"It is a cultural event, after all," said spokesperson Christy Byers. "We thought it might be good to do something for the community."

During the festival's Saturday Showcase, UofL students Edwin Herrera Jimenez and Elena Nunez were awarded the Louisville Tango Festival's \$1,000 scholarships to further their education.



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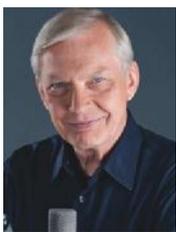
MEET THE MEDIA

A variety of UofL alumni have made their names known in local and national media markets after graduation. Here are some voices, faces and bylines who started as Cardinals.

BOB EDWARDS '69

Former Host, NPR's Morning Edition

Edwards has a storied career in journalism, serving as the first host of NPR's "Morning Edition" for nearly 25 years. He has been lauded as one of the best in the business by his peers and listeners, and in 1999 won the Peabody Award for his work. In 2004, Edwards was inducted into the National Radio Hall of Fame. After leaving NPR in 2004, he hosted a show on SiriusXM before retiring in 2014.



SIRIUSXM

STEPHEN GEORGE '03

President, Louisville Public Media

George, a Louisville native, is the president and general manager of Louisville Public Media, a news organization including WFPK, WFPL, WUOL and Do502.com. Since joining the company in 2015, George has championed inclusion and diversity for LPM in both audience targeting and media delivery.



WFPL



HOWARD FINEMAN '80

News Analyst, NBC/MSNBC

Fineman began his career at the Courier Journal before heading to Newsweek where he rose through the ranks as chief political correspondent, deputy Washington bureau chief and senior editor. He was at Newsweek for 30 years before joining Huffington Post in 2010. Fineman now serves as an NBC News analyst and is the author of "The Thirteen American Arguments: Enduring Debates That Define and Inspire Our Country."

DAWNE GEE '86, '93

News Anchor, WAVE-TV

For 25 years, Gee has served as a friendly and familiar face at Louisville's WAVE-TV. She is currently serving as anchor on three of its nightly news programs in addition to hosting her own afternoon talk show. Gee's charitable spirit and civic-minded leadership have made her an important fixture for the community, on and off the air.



WAVETV

TOM MINTIER '81

Foreign Bureau Chief, CNN

Mintier was hired as a reporter for CNN following graduation from UofL, staying at the network until his retirement. As a foreign correspondent, he covered events such as the opening of the Berlin Wall and the Gulf War. He was also one of only two reporters live on-air when the Challenger exploded. Mintier passed away in 2016.



MOVIESCREENSHOTS.BLOGSPOT.COM

MONICA KAUFMAN PEARSON '75

News Anchor, WSB-TV

After starting her career at WHAS, Pearson worked for 37 years as the nightly news anchor for WSB-TV in Atlanta, Georgia, where she was the first African American woman to assume that role. A multiple Emmy Award winner, she retired in 2012 but continues as an integral part of her community through charitable work and speaking engagements.



WSB-TV

OTHER NAMES OF NOTE

PHILLIP BAILEY '07
Reporter,
Courier Journal

DAN BURGESS '77
Director of
Public Relations,
Doe-Anderson
Advertising;
former reporter
WHAS News
Radio

MONICA HARDIN '05
News Anchor,
WLKY-TV

RAE HODGE '13
Editor, *The Daily Line*

KYELAND JACKSON '15, '17
Associate
Producer, WFPL

OLIVIA KRAUTH '17
Reporter, *Insider Louisville*

RICK MCDONOUGH '78
Former reporter
and editor,
Courier Journal

CARRIE SHARP '00
News Anchor,
WTVF-TV

ONLINE: To update your alumni profile, including employment information, visit uoflumni.org.

Travel Scrapbook



1. UoFL travelers went on an African safari in October 2018.
2. Mickey and Pat Wilhelm get ready to travel by cable car to Table Mountain in Cape Town, South Africa.
3. Gary Ball '78 prepares to experience one of the many safaris included in a trip to South Africa.
4. The UoFL group visited an orphanage in South Africa, donating playground equipment, UoFL hats and sunglasses.
5. Bruce '84 and Vicki Barnes enjoy the view of the magnificent Victoria Falls in Zimbabwe.
6. UoFL travelers cruised to three ports in Cuba in January 2019.
7. Rah Amin '80 and his wife, Jayshree, travel in style in one of Havana's many classic cars.

CARDS AROUND THE WORLD



1



2



3

- 1. Jacque Bott Van Houten '70, '75**, and Wendy Yoder, UofL French professor, finished a trek on the Camino de Santiago de Compostela.
- 2. Richard Lin Jr. '73, '82** completed a 10-day dental mission tour in Kathmandu, Nepal, with the Global Dental Relief group. While there, he assisted in providing dental care to local schoolchildren and monasteries.
- 3. Edward Bibb '13** and his wife, Whitney Bibb, throw their Ls at the Casa Bacardi Rum tour in San Juan.
- 4. Tom Ragan '00** with fellow UofL fan Troy Michell visited the land of tulips and windmills in Kinderdijk, Holland.



4

EDITOR'S NOTE:
Troy Michell's name was misspelled in the Spring 2019 issue. We have rerun the photo. Apologies, Troy, and thanks for sharing your Cardinal spirit.

2019-2020 Travel Programs

ITALY: TREASURES OF VENICE PO RIVER CRUISE

Oct. 20-27, 2019

ROME, TUSCANY AND FLORENCE PRE-CRUISE LAND TOUR

Oct. 16-20

Visit some of the most beautiful and unique villages and cities of Italy during this wonderful time of the year. Enjoy the waterways and surrounding areas of Venice, Murano, Burano, Padua, Ferrara and Bologna, using your Uniworld river cruise ship as a luxury floating "Venetian hotel." The River Countess docks all seven nights at two different Venice locations, both within walking distance to St. Mark's Square. **Cost:** Starting at \$1,999 per person, cruise only. **SOLD OUT: WAITLIST ONLY**

AUSTRALIA AND NEW ZEALAND

Feb. 7-17, 2020

Join UofL for this cruise from Sydney, Australia, to Auckland, New Zealand. Visit the ports of Hobart, Tasmania; Dunedin, Akaroa and Tauranga, New Zealand; and the fjords of New Zealand. Also enjoy four days at sea on Celebrity Solstice. A land tour of Sydney and the Great Barrier Reef will be offered prior to the cruise. **Cost:** Starting at \$1,429 per person, cruise only. **SOLD OUT: WAITLIST ONLY**

EASTERN EUROPE DANUBE RIVER CRUISE: ROMANIA, BULGARIA, SERBIA, CROATIA AND HUNGARY

April 6-15, 2020

This Uniworld cruise travels from Bucharest, Romania to Budapest,

Hungary. This nine-night tour on the Danube River sells out each offering, so we are thrilled to offer this exciting trip once again. Imagine sailing from one country to the other in the comfortable luxury of your five-star Uniworld ship as you visit some of the most beautiful and unique villages and cities in Eastern Europe. **Cost:** Starting at \$3,199 per person.

ALASKA CRUISE

June 6-13, 2020

OPTIONAL LAND TOUR

June 13-18

Alaska is synonymous with spectacular scenery, national parks, wildlife, glaciers and an amazing journey on the Alaska Railroad. Beginning

in Vancouver, Canada, cruise through the Inside Passage to Ketchikan, Juneau, Skagway, Glacier Bay, College Fjord, Prince William Sound and Whittier/Anchorage, Alaska. After the cruise, an optional five-night land tour will be offered to the interior of Alaska. Travel on the magnificent Princess Alaska Railroad dome cars from Whittier to Denali National Park and Anchorage. **Cost:** Starting at \$849 per person, cruise only.

*All rates are per person, double occupancy. Port fees, shore tours, taxes (for cruises), airfare, transfers, some gratuities and items of personal nature are extra. Some prices subject to increase without notice. Please refer to the brochure for details.

To make a reservation or be added to a wait list, call the respective tour promoter or visit uoflalumni.org/travel to download brochures.

The university family offers condolences on the passing of the following alumni and friends. Families may submit information by email to alumni@louisville.edu.

COLLEGE OF ARTS & SCIENCES

1940s

Peggy F. Kasdan '46
Eleanor M. Hunt '49
Virginia P. Russman '49, '68

1950s

Willard C. Gill '50
Richard P. Guerrant Jr. '50
June E. Jones '50
Merle Newlon Jr. '50
Carolyn A. Thom '51
William C. Fust Sr. '52
Stanley H. Blostein '53
James B. Kirkwood '53, '63

James E. Martain '53

George H. Hunt III '56

Larry R. Tackett '57

Edward C. Kreckler '58

Gilbert J. Sturtzel Jr. '58

Gail M. Ulferts '58

1960s

Geneva S. Crawley '63
Sara W. Smith '63
Alice K. Lancaster '64
Clarence A. Hirsch '65
Mitchell A. Charney '66

Alma F. Curry '68

James A. Cox '69

Barbara J. Hicks '67

Louis S. Byron Jr. '69

Matthew U. Thompson '69

Donna M. Volk '69

1970s

M. Lynne Osterholt '70

Edwin E. Wilson '71

Susan N. Dunn '73

Thorleif G. Ellison '73

Ronald F. Brotzge '74

Cathrine L. Fain '74

Louis J. Gray '70, '74

Shelby Lanier, Jr. '75

Eric J. DiBlasi Sr. '78

Gerald F. Ferriell '78

Veronica W. Lotze '78

Eugene R. Mancini '78

James P. Bilotta '79

1980s

Richard W. Cushing '80

Stephen R. Morris '82

Leonard V. Williams '82

Rebecca S. Ward '83

Ronnie L. McBeath '85

Rob A. Lindberg '88

1990s

Richard R. Lampson '90

Gordon M. Lowe '90

Edgar E. Hardesty Jr. '91

Robert K. Price '93

Kimberly A. Powell '99

COLLEGE OF BUSINESS

1950s

Grady E. Parham '54

Eugene O. Conrad '58

Walter T. Wilkinson '58

1960s

Alexander M. Horner Jr. '63

Barbara A. Maxwell '63

Mark E. McCann '69

Donald P. Moll '67

Walter H. Robbins Jr. '67

1970s

Donald B. Tinsley '70

Max E. Goldberg '71

Subhash C. Lonial '72

J. Michael McTighe '72

Leroy J. Davis '73

Aubrey L. Edwards Jr. '73

Ronald M. Vititoe '73

M. Clay Orchard Jr. '74

Cletus J. Timmons '74

Drew C. Davis Sr. '78

1980s

Daniel L. Wade '83

Amy M. McTyeire '85

1990s

Mary P. Kelly '91

2000s

Cathleen M. Hendrix '01

Daniel T. Farr '05

Ryan C. Jett '05

Cherith B. Petzold '09

SCHOOL OF DENTISTRY

1950s

Billy J. Creech '56

Marjorie E. Handley '56

David G. Parker '59

James R. Rusterholz '59

1960s

Marleana H. Huggins '61

Larry R. Tackett '61, '65

Hiram T. Carr '66

COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT

1960s

Violet C. Curry '61

Jean S. Flowers '61

Ruby D. Sublett '61, '72

Cleo V. Laird '68

Clara H. Randle '68, '76

Susan M. Fereday '69

1970s

Harry L. Bell '71

Kerry D. Brummett '77

Mary Juna Crane '78

Veronica W. Lotze '78

Nina J. Stewart '78

1980s

John M. Fairey '80

Thomas E. Denton '81

Walter K. Anderson '82

Claudia A. Parks '83

Katherine A. Grisanti '84

Ronald L. Diemer '87

1990s

John K. Knowles '92

Donald E. Ferry '94

Daniel B. McCarthy '95

Mary L. Porter '98

2000s

Kimberly A. Powell '02

Connie S. Moody '03

Robert K. Price '03

J.B. SPEED SCHOOL OF ENGINEERING

1940s

William E. Brown '45

1950s

Wilfred M. McCord Jr. '50, '56

Richard D. Gloor '51, '74

Eugene A. Meadows '52

Julian P. Morris '53

Thomas O. Lee Jr. '55

1960s

Wayne A. Cornelius '62

Ronald M. Waldeck '66

1970s

James A. Burton '70

Paul A. Lynch '71

Mark D. Stotzer '77

1980s

Mark F. Lenz '80

Richard A. Fischer '87, '88

GRADUATE SCHOOL (SCHOOL OF INTERDISCIPLINARY AND GRADUATE STUDIES)

1960s

Rolla M. Dyer Jr. '63

1970s

Subhash C. Lonial '78

1980s

John W. Brenner '86

Donald G. Barnes '87

BRANDEIS SCHOOL OF LAW

1950s

James E. Martain '55

William C. Fust Sr. '56

1960s

William A. McHugh Jr. '62

James Thompson '62

J. T. Frankenberger '63

Thomas L. Waller '63

Edwin E. Schottenstein '65

Mitchell A. Charney '69

Enrico J. Constantino II '69

1970s

Paul A. Lynch '71

Edwin S. Sedwick '72

1980s

Julie K. Lott-Hardesty '83

William R. Palmer '83

Norman V. Schaich '83

Rebecca S. Ward '86

SCHOOL OF MEDICINE

1940s

Conrad H. Jones '46

Benjamin M. Kaplan '46

Benjamin C. Stigall '48

1950s

Donald E. Howard '55

Mary Pauline Fox '56

Frances C. Walker '57

Carl R. Bogardus Jr. '59

1960s

Glenn E. Hogancamp '61

Charles L. Stephens Jr. '61

George J. Volan '62

Edward C. Kreckler '63

Joanne K. Stephan '65

1970s

Donna M. Volk '73, '76

Carl K. Wetzig '74

David Miller '75

Carl Quillen '75

1980s

Catherine M. Shannon '84

1990s

Rob A. Lindberg '93

2000s

Laura M. Beaty '02

SCHOOL OF MUSIC

1950s

Patricia J. Head '51

1970s

Elisa S. Spalding '75

1980s

Robert E. Jessop Jr. '80

SCHOOL OF NURSING

1960s

Sandra Ellen Spaugh '63

1980s

Nan Barber '87

KENT SCHOOL OF SOCIAL WORK**1950s**

Stanley H. Blostein '58

1960s

Arvil C. Reeb '67

1970s

Madeline S. Connolly '72

Mitchell A. Charney '78

1980s

Philip J. Miller '84

1990s

John K. Knowles '98

ASSOCIATE ALUMNI

Abena Anane

Patricia L. Allen

Bruce M. Anderson

James G. Apple

Gordon Baer

John Tilden Ballantine

Cecil C. Barnett Jr.

Otto E. Barteldes

Petra Beeking

Frank L. Becker

Robert B. Blackman

Robert L. Bossmeyer

Thomas O. Buford

John Cain

Bobbi H. Calloway

Norvin L. Cardwell Jr.

Nathan A. Clark

Patricia A. Clark

Justin D. Coats

Bonnie T. Cohen

Clarence A. Corbett

Christell Curry

Jack Czerkiewicz

Richard Michael Davitt

Eugene M. Deeley

Frank E. DeMarcus

Ronald W. Denney II

Thomas Diener

Robert J. Doherty Jr.

Barbara V. Donahue

Gladys F. Dowell

Edwin D. Epperly

Fred Z. Ferris

Jeremy R. Flowers

Marjorie S. Francke

Libby Rosen Frank

Jean Gaines

Glenn H. Gelfenbein

Audrey E. Groe

Edmond J. Hamilton

Larry Heady

Victor E. Higdon

Myrna Hinkebein

Carolyn A. Hohmann

Ervon Finnegan Holstner

Jane Holstner

David F. Johnson

Helen Jones

Ellen P. Joy

Robert I. Kennedy Jr.

Holly Kestler

Mary Louise Kilkelly

Alvin L. Kommor

Richard O. Lawson

Dorothy J. Lincoln

Jane F. Lechleiter

Calvin M. Lloyd

Eleanor H. Loyd

Adam F. MacAdam II

James D. Marchal Jr.

Thomas J. McCormick

Robert McGary

John E. McKiernan Jr.

David Meffert

Cleo Lucas Mertz

Jeremy H. Meyer

Peggy L. Mitchell

Leola H. Moore

Allan O'Hara

Ellis R. Olliges

Joan B. Pedigo

Betty H. Perkins

Phyllis Portman

Julius E. Raith Jr.

Nancy Deters Rodman

Kathy Redman

Robert A. Ryan

Sonia B. Saag

Dan Sanders

Danny R. Schuetter

Lois C. Severt

Paul D. Simmons

Rhonda L. Simmons

Bruce Smith

Roy C. Starnes

Danny L. Stephens

Albert F. Stiner

Uldis N. Streips

C. Waitman Taylor Jr.

George A. Thomas

Patricia A. Treadway

Stuart R. Troyer

Ruth A. Vowels

Kathleen E. Wade

Rosaline M. Weathers

Anne L. Wells

March Wells Jr.

Gerald A. Wells

Gerald D. Wells

Leonard Wexler

James Ray White

John R. Williams

Charles B. Wilmoth

Elizabeth Wine

Vera Bauer Wolf

Maxine Wood

HONORARY ALUMNI

Billy F. Andrews

Wilma C. Horlander

Frances D. Lewis

T. Vaughn Walker

Mary Pauline Fox '56

Mary Pauline Fox passed away in April at age 87. She is remembered as a trailblazer for women and public health in Kentucky. Born in Knox County, Kentucky, she studied hard, skipping two grades and graduating with her bachelor's degree from Union College at 19.

She attended the UofL School of Medicine as one of five women of the class of 100 to graduate in 1956. While in school, she led the first wave of women to enter the ROTC program in the United States. She served in a variety of health departments across the state, bolstering her passion for public health.

Fox was an integral part of the Head Start program since its conception in 1965, tasked with conducting physicals for 500 Head Start students in Pike County. She was motivated to continue drawing specialists into rural areas for improved access to health care. In addition, she was part of the first public health group invited to China by the Chinese government, an event which was sanctioned by the U.S. Department of State.

Throughout her life, Fox garnered countless awards and honors. She will be remembered as a powerful advocate for improved public health by speaking on topics such as substance abuse, family planning and AIDS.

**Subhash Lonial '72, '78**

Subhash Chandra Lonial passed away in February. Born in India in 1935, he moved to the U.S. in 1960 to pursue his bachelor's degree in mechanical engineering. Following his graduation from the Carnegie Institute of Technology, he moved to Louisville, where he earned an MBA and a doctorate in interdisciplinary studies from UofL.

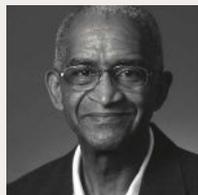
Lonial joined the College of Business faculty in 1972 as a marketing professor, eventually becoming department chair. He taught at UofL for 42 years before retiring in 2014. His students regarded him as a challenging yet knowledgeable professor. Following his retirement, he maintained the status of professor emeritus and continued publishing works for which he received numerous awards.

In addition to being a dedicated professor, Lonial enjoyed active pastimes such as swimming and diving as well as reading and travel.

The university family offers condolences on the passing of the following alumni and friends. Families may submit information by email to alumni@louisville.edu.

Jim McGhee

Jim McGhee, assistant athletic director for varsity sports and student life, passed away in May. Known affectionately as Mr. McGhee, he touched nearly every aspect of varsity sports at one time or another.



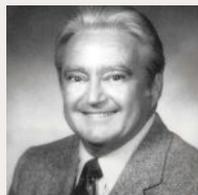
McGhee had served at UofL since 1977, when he was hired as an assistant athletic trainer and equipment manager. He had served in his current position since 1986 and became an integral part of the university's athletic department through the years. His colleagues say he served as mentor, friend and wise counsel.

In addition to his UofL responsibilities, he operated the NCAA National Youth Sports Program as a part of an initiative to serve at-risk boys and girls during the summer. He also served as a deacon at Watson Memorial Baptist Church.

McGhee earned a bachelor's degree in physical education and science at Mississippi Valley State in 1969 and a master's degree in human movement and physical education at Boston University in 1975.

George W. Starks '50

George W. Starks passed away July 29, 2018, leaving a legacy of service to his country. Starks graduated from high school in 1941 and joined the United States Air Force. During World War II, he was shot down by enemy planes and made the 300-mile trek to safety in Switzerland with the help of French soldiers.



Following the war, Starks graduated from the University of Florida before pursuing his degree in dentistry from the UofL School of Dentistry in 1950.

From there, he served in the United States Dental Corps, completing a tour in Korea before settling down in Orlando, Florida, and starting his own pedodontics practice. He served his community in a number of capacities before retiring at 90.

He was awarded the Purple Heart and Bronze Star, as well as numerous other awards, for his dedication to his profession and his nation.

The Dr. George W. Starks Memorial Scholarship was recently established in his name to benefit students pursuing degrees from the UofL School of Dentistry.



Uldis Normunds Streips

Uldis Normunds Streips, former professor of microbiology at UofL's School of Medicine, passed away in February at the age of 76.

Streips, who received his doctorate from Northwestern University in 1969, served in his role as assistant professor for 45 years, publishing in many academic journals and receiving numerous accolades for his teaching methods. He also served as the vice chair for educational activities and the course director of medical microbiology and immunology.

Streips was born in Riga, Latvia, and remained deeply involved with his Latvian roots through involvement in several community organizations. He was proud of his heritage and joyfully shared his culture with others, including playing bass in a Latvian folk band, "Cikagas Piecisi," for nearly 40 years.



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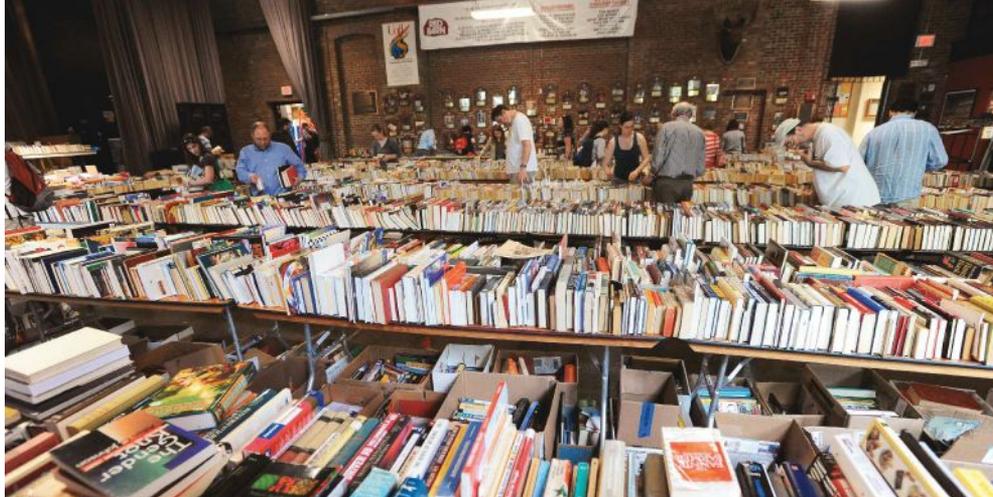
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HAPPY BIRTHDAY, RED BARN



▲ A selection of scenes from Red Barn events.

Fifty looks good on the George J. Howe Red Barn. UofL's beloved student space is celebrating its half-century birthday this fall.

Since hosting its first event in 1969, the building has seen generations of Cardinals pass through its doors and has become an enduring campus symbol.

It was Louis Bornwasser '70, one of the students who attended that initial event, who first took a keen interest in saving the building. At the time, comparable universities had buildings dedicated to student activities and Bornwasser saw an opportunity to create a space meant exclusively for students. He took his idea to then President Woodrow M. Strickler, requesting money to renovate and maintain the space, which Strickler granted.

During its time on campus, the Red Barn has housed numerous organizations including the Cultural

Center and the Intersection, a branch of the LGBT student organization. It regularly hosts fundraisers, concerts, memorials and the much-loved annual Crawfish Boil.

But through the years, it has become more than just a building. To many, it has become a place to call home.

"The Red Barn knows no age. It doesn't. Everybody is welcome and the events that we do bring the alumni back but also engage the students that are already here," said Edlisa Embry '94, '14. "A piece of my heart will always be here. I'm so grateful for the opportunities that they gave me."

Alumni who found their place in that spot joined to form the Red Barn Alumni Association, which is dedicated to making sure the building provides "something for everyone." The RBAA has distributed more than \$450,000 for student scholarships and student programming since 1988.

Even with new facilities sprouting up each year, founding members of the Red Barn and RBAA believe the building still has a lot to give.

"When I think about what's next I

always think of that song by The Carpenters called, 'We've Only Just Begun,'" said Red Barn namesake George Howe, director of Red Barn special programming. Howe

was hired in 1970 as the first director of student activities and has become an integral part of any Red Barn visit.

"None of us may be around in 50 years but if 50 years from now this building is still here and still doing what it's doing and has done for the last 50 years, then that would be the greatest legacy," said RBAA President Jimmy Snyder '77.

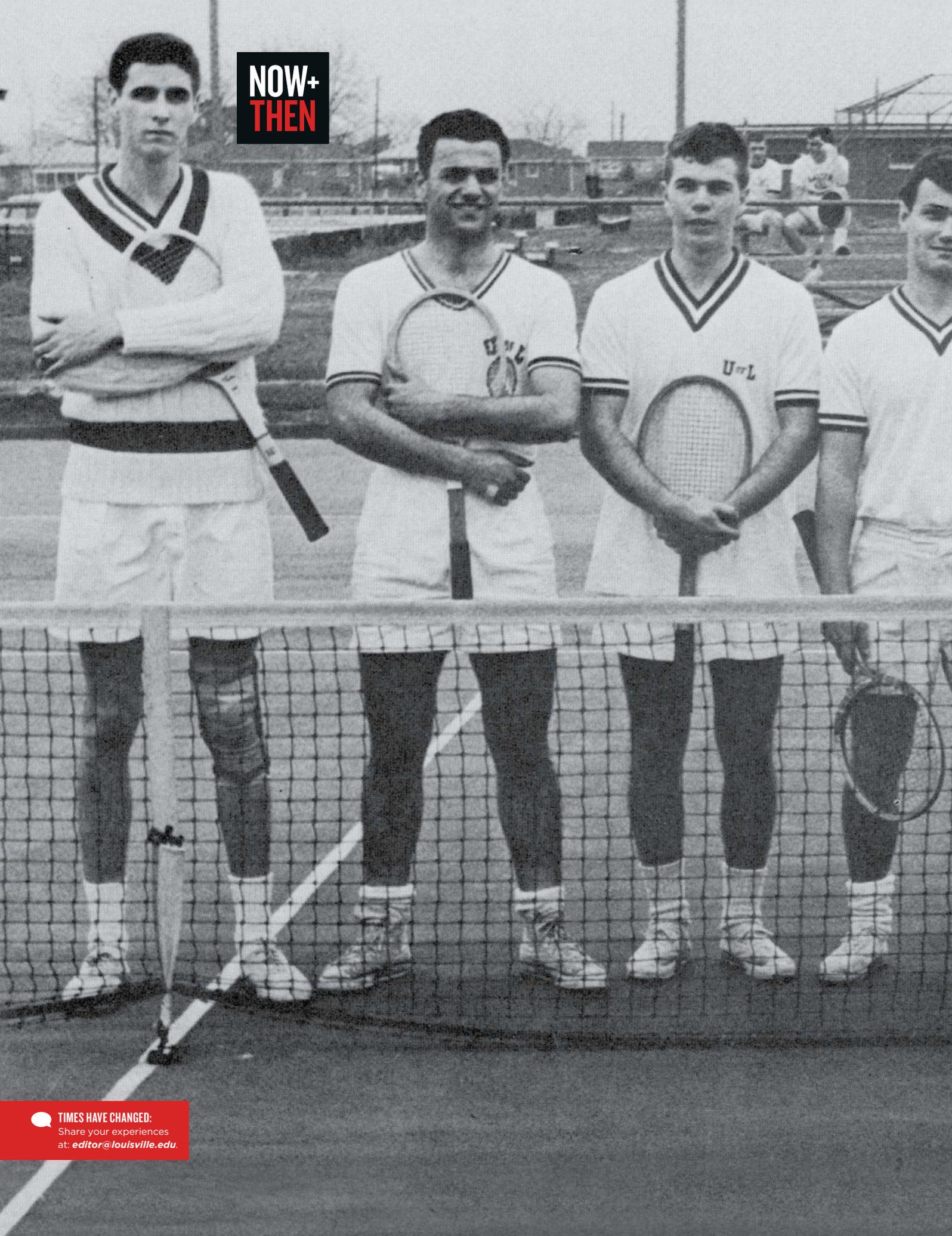
JOIN THE CELEBRATION

OCT. 25, 6-9 P.M.
50th Anniversary Reception

OCT. 26
Tailgate at the Red Barn

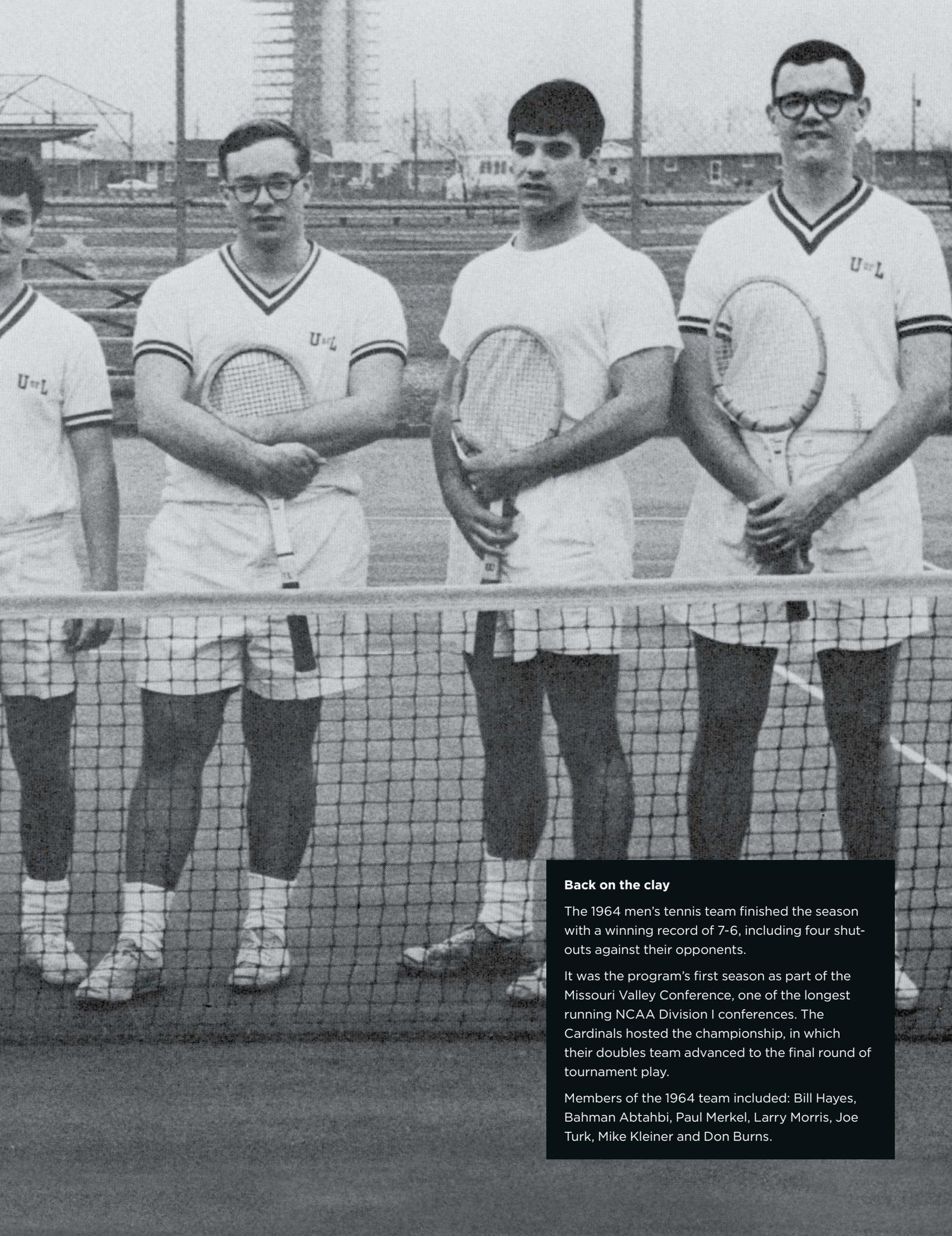
Football game on-field recognition at the end of the third quarter

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at: editor@louisville.edu.



Back on the clay

The 1964 men's tennis team finished the season with a winning record of 7-6, including four shut-outs against their opponents.

It was the program's first season as part of the Missouri Valley Conference, one of the longest running NCAA Division I conferences. The Cardinals hosted the championship, in which their doubles team advanced to the final round of tournament play.

Members of the 1964 team included: Bill Hayes, Bahman Abtahbi, Paul Merkel, Larry Morris, Joe Turk, Mike Kleiner and Don Burns.

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