Detailed Approach
Seeing the full picture, Alzira Maldonado Protsishin (M.A.S. ARCH ’14) has set herself up for success

In Service of ‘Something Bigger’
A Code Worth Cracking
(Sound)ing the Alarm
I am the dawn of a new era in higher education, one that is being driven by a technological transformation that is changing how we do and how we do it. The forthcoming, technology-driven Fourth Industrial Revolution requires there is a need to educate the next generation of innovative tech leaders who will shepherd us forward. Illinois Institute of Technology was founded with the opportunity that Illinois Tech students stand out after graduation. I’m happy to share that this is resonating with students: we welcomed the largest class of first-year students in recent history to start the fall 2022 semester. Our alumni are vital to our work. Take Alzira Maldonado Protosihin (M.A.S. ARCH ’14), born in Ukraine and raised in Colombia, Alzira moved to Chicago to pursue her architecture studies at Illinois Tech. Now a senior architect at EXP, she was a project designer on multiple Chicago Transit Authority elevated “L” train stations, including the 95th Street Red Line station. Her work earned her the American Institute of Architects Chicago Family Young Architect Award in 2021. You’ll read more in this issue about the positive impact that Alzira has made on her community, as well as communities in Chicago and the Illinois Tech community, and the important work that so many of our alumni are doing to benefit others. That is the impact of an Illinois Tech education, and I look forward to continuing our work to ensure that future generations will make the same impact. Sincerely,

Raj Echambadi
President
A Plan to Stick To

Jennifer deWinter, Liad Wagman, Kevin W. Cassel

A World War II veteran who served in the United States Navy, Charles Ticho (EE ‘48) used his G.I. benefits to attend Illinois Institute of Technology upon his return home to Chicago. He highlights some of his experiences as a student at Illinois Tech, specifically in pursuit of his goal to graduate in three years to make up for the time he spent in the service.

The director of waste water operations for a central Florida municipality, Ticho had a somewhat primitive method of registering for classes. On the special registration day each department would set up a table in the gymnasium. If you wanted to sign up for an English class, you got in line in front of the English department table and hoped that, by the time you got to the head of the line, the class that you wanted was still available. You would then rush to the next line to sign up for the next course and so on until your schedule was complete. This system did not present a big problem for those signing up for the normal 16 credit hours per semester. If one of your preferred classes was already full, you nearly always managed to find an alternate class that would fit into your schedule. However, when you were trying to squeeze 22 or 24 credit hours into your program, as I was, a careful strategy had to be prepared. Every semester, no matter how well I planned, there would always be one or two classes that were already filled by the time I got to the table. To solve this dilemma I developed a bit of subterfuge. I’d go up to the professor who was teaching one of the closed classes and say: “I spoke to the head of your department and he said that, if it is all right with you, we’d be able to join your closed class.” I would then rush over to the department head and say: “Professor so-and-so said it is OK with you it’s OK with him if I join his closed class.” Invariably the department head approved, and I had the class.

A Golden Anniversary Missed

Having reconnected with Illinois Institute of Technology via publications such as Illinois Tech Magazine, Virgilio Caballero (M.S. ENVE ’72) expresses his disappointment about having to miss this year’s 50th reunion.

I am enjoying the current school news that bring reminiscences from the time that I was enrolled in the environmental engineering program. To this day I feel very fortunate for having chosen ITT for my graduate studies, which was the key that opened many doors for me as an immigrant during my successful 44-year professional career that started as a part-time draftsman in an engineering firm while attending school (and ended as) the director of waste water operations in a central Florida municipality.

A 50th reunion is a milestone that not many people can attend for many reasons, particularly during these pandemic years. For those of us who are 70-plus years of age, it is truly an important event in our lives, and that is the reason that I feel terribly sorry about having to miss this year’s 50th reunion.

History, at Your Fingertips

Innovation—In more ways than one—in display in the east lobby of Michael P. Galvin Tower, which is now home to a physical-digital interactive experience that honors the impact of the Galvin Family on Illinois Tech and provides a chance for visitors to better understand the university’s founding mission.

A motion wall of screens animates in front of viewers while highlighting information about the building’s namesake, Michael P. Galvin (LAW ’78), the chair of the Board of Trustees, the Galvin family and its decades of support to the university, and Motorola, which was founded by Michael’s grandfather, Paul V. Galvin.

The interactive display also features a window projection and touchscreen experiences, which allow visitors to add their stories. —Andrew Wyder

LEADERSHIP

An Honor Befitting the Man

Kevin W. Cassel is currently the acting dean of Armour College of Engineering in place of Carol and Ed Kaplan Armour College Dean of Engineering Endowed Chair Kenneth T. Christensen, who is serving as the interim provost. Cassel has served on the Illinois Tech faculty for more than 25 years, with a primary appointment in the Department of Mechanical, Materials, and Aerospace Engineering. —Andrew Wyder

STUDENT SUCCESS

The university welcomed its largest class of first-year students in recent history when the fall 2022 semester began in August. Here’s a little more about the newest class of Scarlet Hawks:

1. Students hail from 32 countries.
2. Nearly 40% are first in their family to attend college.
3. 35% are underrepresented groups.

STUDENTS

FIRST-TIME

654

BETTER-UNDERSTANDING THE UNIVERSITY’S FOUNDING MISSION

The interactive display also features a window projection and touchscreen experiences, which allow visitors to add their stories. —Andrew Wyder

LEADERSHIP

Leading into the Future

A trio of Illinois Tech colleges are currently under new leadership, including the appointment of a new dean.

Upon the retirement of John F. O. Bilson as dean of Stuart College, Conviser said when the building’s renaming was originally announced in February 2020, the dedication ceremony was later delayed due to the COVID-19 pandemic. “The school’s forward-thinking approach to providing a quality legal education that prepares students to practice law in this rapidly changing legal industry is truly outstanding among its peers.” —Paul V. Galvin

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Upon the retirement of John F. O. Bilson as dean of Stuart School of Business, Professor of Economics Liad Wagman was chosen to serve as Stuart School’s interim dean. Wagman has been at Stuart School for 13 years, where he has taught at the undergraduate, graduate, and doctoral levels; conducted a wide array of research across multiple disciplines; and helped to pioneer Stuart School’s online initiatives, an increasing area of focus for the university. Kevin W. Cassel is currently the acting dean of Armour College of Engineering in place of Carol and Ed Kaplan Armour College Dean of Engineering Endowed Chair Kenneth T. Christensen, who is serving as the interim provost. Cassel has served on the Illinois Tech faculty for more than 25 years, with a primary appointment in the Department of Mechanical, Materials, and Aerospace Engineering. —Andrew Wyder

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**Headliners**

"I think the backyard is a place of invitation and the front yard is a place of spontaneous inaction, a place where maybe you didn’t anticipate seeing a friend or a neighbor, but because you’re visible in the public, you may encounter your neighbors."

—Professor of Landscape Architecture Ron Henderson highlighting, for Chicago TV station Fox 32, how the front yard has become a social gathering place

**A Squirrelly Story**

In February Illinois Tech Public Safety captured an elusive criminal: Squirrel Boss, a ceramic lawn ornament that was detained for trespassing, but would be released “for good behavior” to the owner of the @iit.squirrel Instagram account, a channel that has exploded in popularity on campus and has led to the creation of a popular student organization.

When Leah English (PHYS, ASPY 2nd Year) needed a release from her first-year studies, she strolled campus with a mission: to find and photograph friendly critters on Mies Campus. She posted fun photos of squirrels on social media, but only if they were on Illinois Tech grounds. “My favorites are when they’re eating food,” English says.

English’s Instagram account, created less than a year ago, caught students’ attention—far more than she had imagined. More than 700 followers send or post their own squirrelly candid captures. The account garnered so much community attention that English decided to create a student organization, Squirrel Club, in April.

The email list is now 150 members strong, and the club has built a friendly community of participants that English never imagined would happen. She thinks it’s a way for people to escape the urban bustle of a metropolitan area. "There’s a lot of nature on campus for being in the middle of Chicago," English says.

A ceramic squirrel, a gift from her grandmother’s yard sale shopping spree, became a hide-and-seek hunt for her followers as students found the squirrel, snapped a picture for the account, and hid it elsewhere on campus for others to find. It made its way to the 19th floor of Michael Paul Galvin Tower, where Public Safety grabbed the lawn ornament. The squirrel disappeared over the summer, so a replacement squirrel will soon be purchased. English also plans to have Squirrel Club activities and outings in the spring after she gets used to running the organization. —Thaddeus Mast

**Homecoming 2022**

1. **Athletics Hall of Fame**
   The inaugural Athletics Hall of Fame ceremony was held to honor a special group of athletics alumni and former coaches and administrators who have left an inspiring legacy at Illinois Tech. The event was emceed by Athletics Advisory Board Chair Jackie Sokolowski (PSYC ’05, MBA ’14).

2. **Michael Paul Galvin Tower Community Celebration**
   The Illinois Tech community gathered for a celebration as it unveiled the first physical-digital interactive experience on campus to honor Board of Trustees Chair Michael P. Galvin (LAW ’78) and his family. Learn more at www.iit.edu/galvin-interactive.

3. **Homecoming Walking Tour**
   Illinois Tech alumni from all classes came back to reconnect during a walking tour on campus led by Cynthia Vranas Olsen (M.S. ARCH ’01, Ph.D. ’17).

4. **Golden Reunion**
   The newest members of the Golden Society celebrated the 50th anniversary of their graduation from Illinois Tech. Pictured are members of the class of 1972 and before.

5. **African-American Alumni Association Social**
   Illinois Tech alumni and friends connected on campus during the African-American Alumni Association (4A) mixer.

6. **Power the Difference Campaign Celebration**
   University leadership, faculty, staff, and alumni celebrated the announcement of the historic $1 billion fundraising goal for Power the Difference: Our Campaign for Illinois Tech, including (from left) Board of Trustees Vice Chair Tom Lanctot, Trustee John P. Calamos Sr. (ECON ’63, MBA ’70), University Regent Craig Duchossois, and Vice President for Advancement Ernie Iseminger.

See more photos of Illinois Tech Homecoming 2022 at https://flic.kr/s/aHbqjA7ZBc

**ON CAMPUS**

"Everyone knows what it means to be depressed or (have) anxiety, but the fundamental thing about stigma is difference. While one may get depressed occasionally or a bit euphoric once in a while, most people don’t know what it’s like to be in the throes of a manic episode."

—Distinguished Professor of Psychology Patrick Corrigan discussing the stigma around manic episodes in USA Today

"One of the biggest misconceptions is that people think that they’re not a target for hackers or malicious actors. All of us are connected today....We have to understand that us being continuously connected, we are vulnerable because we have so many devices."

—Professor of Information Technology and Management Calvin Nobles discussing cybersecurity misconceptions on Chicago TV station ABC 7

**EVENTS**

1. Athletics Hall of Fame
2. Michael Paul Galvin Tower Community Celebration
3. Homecoming Walking Tour
4. Golden Reunion
5. African-American Alumni Association Social
6. Power the Difference Campaign Celebration

**ON CAMPUS**

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ATHLETICS

Here’s a look at the first class of inductees:

Leaders of the Flock

A dozen former student-athletes, coaches, and administrators who were key in shaping the Illinois Tech athletics program were inducted into the inaugural Athletics Hall of Fame class as part of the 2022 Homecoming celebration on September 16, 2022.

The creation of the Athletics Hall of Fame was spurred by the Athletics Advisory Board in 2019, which was tasked with growing the student-alumni experience. The board saw a need to recognize the past and those who paved the way for current and future student-athlete success.

Here’s a look at the first class of inductees:

- **Liam Barrett (BA ’18), Men’s Soccer—**A two-time academic all-American, Barrett broke Illinois Tech and Chicagoland Collegiate Athletic Conference (CCAC) records for goals and points, twice being named the CCAC Player of the Year
- **Jim Darrah, Coach—**Darrah coached baseball for 25 years, beginning in 1978, and was three times named the CCAC Coach of the Year; he was also named the National Association of Intercollegiate Athletics (NAIA) State and Region Coach of the Year
- **Ted Erikson (CHE ’52), Men’s Swimming—**A standout swimmer at Illinois Tech, Erikson would go on to break world speed records, including swimming the English Channel round-trip in 1965 in a time of 30 hours, 3 minutes
- **Ed Glancy, Coach—**After playing in the Major League Baseball farm system, Glancy coached the baseball team from 1947–71, served as athletics director beginning in 1963, and is credited with obtaining the first student-athlete scholarships
- **Lauren Joyce Hensel (PTC ’06, MPA ’17), Women’s Volleyball—**After a standout career at Illinois Tech, where she was a two-time NAIA All-American, Hensel went on to coach the Robert Morris University men’s and women’s volleyball teams
- **Arthur Keating (ME 1916)—**The captain of the football, men’s basketball, and track team at Armour Institute of Technology; Keating offered support as a university trustee and donor that led to the development of the university’s athletics facility named in his honor
- **Gerald “Jerry” L. Maatman Sr. (FSPE ’51), Men’s Baseball—**A star outfielder at Illinois Tech, Maatman had a successful professional career that included time spent as chair of Illinois Tech’s fire protection engineering department and serving as CEO of Kemper Insurance
- **Dennis Matuch, Coach—**Matuch coached the swim team for 25 years while earning international accolades, including a world-best time for a 40-kilometer pool swim in 1963, and was inducted into the International Marathon Swimming Hall of Fame
- **John Olin (ME ’61), Men’s Basketball—**Olin is one of the men’s basketball team’s all-time leading scorers, including scoring a school-record 41 points in a single game, and a distinguished Honor I recipient
- **Corinne Trtan (CE ’02), Women’s Volleyball—**A standout on the hardwood who was named the CCAC Freshman of the Year and finished her four-year career with a record 1,611 points; Trtan had her jersey retired shortly after she graduated
- **John J. Schommer (CHE ’92), Administrator—**One of the Big Ten’s first great basketball players, Schommer transferred to Armour Institute to play three sports and later oversaw the development of its earliest athletics programs
- **Bernard “Sonny” Weismann, Administrator—**Weismann was a coach at Armour Institute and later served as athletics director at Illinois Tech from 1928–71; over his 45-year career, the athletics program grew from its infancy into resembling today’s department—Thaddeus Mast

Your Saliva Could Reveal Secrets of Your Dental Health

When a dentist says you are one of the millions of Americans with a gum infection, it’s usually time to schedule restorative dental work. But the secret to catching tooth decay early could lie in your spit.

Illinois Tech Professor of Chemistry Rong Wang is leading a team that is tasked with detecting periodontitis, a gum infection, before major dental work is needed.

“It’s not life or death, but it is close,” says Illinois Tech Assistant Professor Abhinav Bhushan, a co-principal investigator on the project. “It really impacts people’s quality of life, and it’s also very expensive.”

The group’s solution is to compare the saliva samples of human subjects who either do or don’t have periodontitis and search for biomarkers associated with the disease. They don’t expect to find just one signifier—rather, the researchers are looking to identify a collection of bacteria, proteins, metal ions, and enzymes that are associated with the presence of tooth decay.

The team is developing a device that can then test a saliva sample for the presence of the identified biomarkers.

—Simon Morrow

### RESEARCH BRIEFS

$20 Million Grant Drives IDEAL Research in Data Science

A Chicago-based research coalition that includes a pair of Illinois Tech researchers is accelerating innovations in data science with a share of a five-year, $20 million grant from the National Science Foundation.

The Transdisciplinary Research in Principles of Data Science (TRIPODS) Phase II program brings together scientists and engineers from different research communities to further the theoretical foundations of data science through integrated research and training activities.

Jinqiao “Jeffrey” Duan, professor of applied mathematics, and Binghui Wang, assistant professor of computer science, are part of the coalition that received a TRIPODS grant.

Duan and Wang will conduct data science research with the Institute for Data, Economics, Algorithms, and Learning (IDEAL), a consortium of more than 50 Chicago-area researchers from Northwestern University, the University of Chicago, the University of Illinois Chicago, and Toyota Technological Institute.

IDEAL focuses its research on key aspects of data science foundations across computer science, electrical engineering, mathematics, and statistics in fields such as economics, operations research, and law.

“This institute provides a platform for conducting research and training in the mathematical foundation of data science, with expertise, motivation, and inspiration from people of diverse backgrounds,” Duan says.

IDEAL’s proposal includes a strong public outreach component to impact research and educational infrastructures to engage a diverse population from underrepresented communities engaged in data science. This includes conducting public lectures and exhibits through a partnership with the Museum of Science and Industry, as well as conducting workshops with local high school teachers through a partnership with Math Circles of Chicago. Direct workshops with undergraduate and high school students are also a part of the strategy. —Casey Moffett
In 2021 Alzira Maldonado Protischin (M.A.S. ARCH ’14) won the American Institute of Architects Chicago (AIA Chicago) Dubin Family Young Architect Award—a title that, on the surface, might suggest a seamless ascent to notoriety. But Maldonado Protischin is someone who knows what it is to fight for a dream—to rise as a minority woman in a male-dominated field, and to build a career, and a life, a world away from where she began.

Born in what is now Kyiv, Ukraine, and raised in Bogotá, Colombia, Maldonado Protischin is the daughter of two structural engineers. Her parents divorced when she was young, and she split her time between both of their houses growing up, sometimes tagging along on their work projects. The influence of their careers, she says, was significant. When she became a mother at a young age, Maldonado Protischin stayed true to the dreams for her career with the support of her family.

“I finished high school with the help of my parents,” she says. “I wouldn’t be anywhere close to where I am [otherwise]—it’s because they helped me a lot, especially my mom. Going to college later, it was a 24-hour job basically. It was taking [my son] to kindergarten, going to class, picking him up, doing homework, dinner, getting him in bed, and then after that I got to study and do my homework for school as well. It was busy, I have to say, and challenging at times. I don’t think I would change a thing about it.”

When Maldonado Protischin decided to study architecture in college, she was fully aware of the gender imbalance that exists within the field. Her mother’s professional success inspired her decision. Fourteen years ago Maldonado Protischin’s mother’s employer offered her an opportunity to move to the United States for work, and she took it. Her mother now lives in Houston.
“She moved here knowing little English, and while working she was studying to learn the language,” Maldonado Protsishin says. “Today she is a licensed structural engineer in three countries. I have never seen her give up on anything. She just plowed through the adversities to access better opportunities for herself and her family.”

After earning her bachelor’s degree in Colombia and working in Bogotá, Maldonado Protsishin moved with her son to Chicago. She enrolled in Illinois Institute of Technology’s Master of Architecture program, and her son enrolled in middle school. Given her responsibilities as a single mother, she went to school while also working part-time.

“It is the way I accomplished staying here—getting an internship so I could have an offer after graduation and have my [residency] paperwork,” she says. “I was in a different mindset than everybody else [in my graduate program] because I already had so much responsibility. I had to think way, way far ahead.”

At Illinois Tech, Maldonado Protsishin took a graduate studio course with instructor Thomas Hoepf, who also worked at EXP, a global architecture and engineering firm headquartered in Chicago. The two then became colleagues when Maldonado Protsishin was hired into an architect internship at the firm. That position served as a catalyst for her growth within the company, and she still works for EXP, currently as a senior architect.

“The group that I am in at the firm mostly does public projects, so a lot of transportation infrastructure, Chicago Transit Authority projects, airports, [and projects with] federal agencies like [the U.S. General Services Administration] and [the Federal Aviation Administration] Those are the type of projects that I really like, working on public building projects,” she says.

Maldonado Protsishin’s projects have ranged from working on the redesign of the 95th Street/Dan Ryan Intermodal CTA station; designing a new courthouse in the Northern Marianas Islands, a U.S. commonwealth located in the Pacific Ocean south of Japan; and, most recently, designing air traffic control towers in North Dakota and South Carolina.

“In the courthouse and many of the CTA projects, I was a project designer,” she says. “I work on the front end with the client visualizing the building and addressing the needs of the end users. I do community outreach and town halls when we present the project to the community, and stay involved on the project for coordination of the design that was approved by the client and work on key details, which I like.”

“She’s always been involved in all phases of the work, as all architects are, but her passion has been design, and her design abilities are just superb,” Hoepf, now a design director at EXP, says of Maldonado Protsishin. “She has that sensibility about the big picture down to the craft and detail. She is a critical part of our collaborative team of architects and engineers, and she is respected as such.”

Outside of work, Maldonado Protsishin has gotten involved with a cause dear to her heart: empowering other women in the development of their careers as architects. One way she has done so is by volunteering with Arquitina, a nonprofit that provides mentorship to Latina women who are preparing to take their licensure exams to become architects.

Alicia Ponce, founder of Arquitina, has witnessed Maldonado Protsishin’s drive in this area firsthand.

“With our mentees, we talk about family, partners, and mental health—all of that comes into play when you’re trying to take an exam,” Ponce says. “Somebody like Alzira can share her story. She meets with a mentee and also volunteers for our planning committee. She hit the ground running being a mentor and key member for Arquitina, and she’s always really happy, which makes it even better.”

Maldonado Protsishin has made a home for herself and her son in Chicago’s Old Town neighborhood. Her son is a business major completing his final year of college in Chicago. Career-wise, Maldonado Protsishin says she remains deeply interested in public building projects that can serve the next generation. Her greatest motivator, she says, is still her family.

As she looks forward, the AIA Chicago award that she received is opening new doors.

“I’m just going forward for me and my son,” she says. “It is incredible for me, for my mom, for my family, to have that recognition [through the AIA Chicago award] in a different country and after all of the effort that it took. To me it’s mind-blowing. I’ve been invited to do keynote and to belong to other organizations. What I feel is that it has opened up the opportunity to tell my story, so younger generations and young architects see that they can aim for it, too.”

“The core of architecture is solving problems,” Maldonado Protsishin says. “It is incredible for me, for my mom, for my family, to have that recognition [through the AIA Chicago award] in a different country and after all of the effort that it took. To me it’s mind-blowing. I’ve been invited to do keynotes and to belong to other organizations. What I feel is that it has opened up the opportunity to tell my story, so younger generations and young architects see that they can aim for it, too.”

Connection to the Community

Alzira Maldonado Protsishin (M.A.S. ARCH ’14) wanted to ease the life of everyday commuters in simple ways at the Chicago Transit Authority (CTA) station at 95th Street, where it intersects with the busy Dan Ryan Expressway.

The existing structure was a dark, hulking, concrete building where commuters passed through turnstiles and descended into a cracked and dilapidated interior.

Much of that was torn down. In its place, she helped design a bright, airy terminal space with numerous windows and skylights, aluminum curtain walls, and a colorful ribbon design on its glass and metal-paneled exterior. A second building was built on the south side of the busy 95th Street, connected by a skyway, effectively doubling the size of the 62,250-square-foot project. Additional terminal space transformed the site into a hub for both city buses and far-reaching Greyhound lines.

“When you change the architecture of the building to have more natural light, make it more secure, and with materials that are more dignified, it changes your day. It’s about making your life easier,” Maldonado Protsishin says.

In the future, Maldonado Protsishin hopes to continue working on “big community impact projects,” in transportation and elsewhere. She worked on the renovation and Americans with Disabilities Act adaptation of the historic CTA “L” train Quincy Elevated Station and the striking design of the new Washington/Wabash “L” station, and is currently working on an even larger project for the CTA: the renovation of a large swath of the Red and Purple “L” train line on Chicago’s North Side, including four stations that are in need of modernization. —Tad Vezner
A
dozen anxious students and professors huddled around a speaker in a small room in California, waiting for any sign of life. It was 11:21 p.m. on May 18, 2017, when years of hard work and cooperation with NASA’s Jet Propulsion Laboratory were realized. A string of “beeps” cut the static, and the room erupted in applause: CSUNSat1 had survived a launch to space and was sending its first signal to the ground station at California State University, Northridge. Faculty members James Flynn (EE ’77) and Sharlene Katz—a potent husband-and-wife duo that led the project—calmly translated the dots and dashes of the satellite’s Morse code transmission. The message read “CSUNSAT1 A A A A A A.”

We called this ‘straight A’s,” Flynn says. “The message started by telling us the satellite was alive and in good health.”

Four years earlier, the team received a grant of $100,000 per year for two years from NASA and $60,000 from the Jet Propulsion Laboratory to support its part of the project, “Small Sat Low Mass, Extreme Low Temperature Energy Storage,” with JPL.

Project leads Flynn and Katz, both electrical and computer engineering faculty members at CSUN, wanted to build a satellite to test a battery developed by JPL that would withstand the bitterly cold temperatures of space, and NASA wanted to help.

“If you take batteries, little cells like those in vape pens, and they get too cold, they die permanently. [Spacecraft] need heaters for these, and they are all expensive, dangerous, and limit the mission,” Flynn says.

Flynn, Katz, and a team of 70 students spent four years building a satellite that is the size of a shoebox to send to space to qualify JPL’s cold battery. CSUNSat1 was built with traditional and experimental energy cells to prove it could switch over and utilize the new technology. It worked, and the battery responded quickly to power needs—faster than NASA’s current cells. NASA plans to use the technology in future missions.

Despite years of planning and careful construction, failures on satellites such as CSUNSat1 were common, Flynn says, and the team was far from certain that the small box would make contact—let alone succeed in its primary mission of testing the new energy-storage system.

“Nothing is worse than knowing the satellite was coming over the horizon, but it is silent,” Flynn says.

Flynn served as a systems engineer on the project, making sure that the satellite came together perfectly. He focused on making sure that the satellite could talk to its ground station, making use of his background in communications.

After graduating from Illinois Institute of Technology, Flynn served as a consultant for the electronics used in the film, radio, and communications industry and ended up in California.

“Around then, I ran into a lovely lady from California State University, Northridge. She said I could tell a good story and encouraged me to start teaching in 2007. Long story short, we got married,” Flynn says of Katz.

After three years teaching, JPL reached out to the university. The lab asked faculty and students to build a satellite. It would provide guidance to the faculty and students before gradually leaving the project in the hands of those at CSUN.

“I was teaching young people about communications: FM, AM, TV, and so on,” Flynn says. “Now they say I have to learn how to talk with a satellite going 27 times the speed of sound, 200 miles up, and get all the information needed.”

CSUNSat1 was part of the Cubesat program, which NASA uses to test future technology by hitching the five-pound test craft to normal resupply and ferry rockets, usually those visiting the International Space Station. The university team watched live as astronauts released CSUNSat1 into low Earth orbit.

Flynn and Katz devoted themselves to the satellite while keeping a full teaching load, leading to long nights and early mornings.

JPL was interested in more than the satellite: it planned to use the project, and its 70 dedicated students, as a recruiting pipeline. It worked, and about 20 team members would go on to work at the nation’s premier spacecraft laboratory. Others would join SpaceX and similar space-focused companies.

Armen Arslanian, who was a second-year engineering student at CSUN at the time, joined the project and worked for nearly two years focused on the satellite’s communication. He went on to work at JPL.

Both [Flynn and Katz] were education consultants,” Arslanian says. “They taught us industry standards and how things are done in the real world versus sitting in the classroom and learning about theoretical physics.”

Not long after the satellite completed its mission, Katz died of cancer late in 2017, and the satellite projects halted. Now, five years later, Flynn and the team at CSUN are ready for another satellite—this time, finding a cheap and simple solution to removing space debris.

“It was a lot of, ‘Oh no, here we go again,’” Flynn says. “Losing Dr. Katz took the wind out of our sail in more ways than one, but in her memory, I’ll try my darndest to get this mission up there.”

More online: csun.edu/cubesat

PHOTO: COURTESY OF JAMES FLYNN

PHOTO: COURTESY OF JAMES FLYNN
It’s natural to wonder whether people who achieve early, breakaway career success are geniuses, or just in the right place at the right time. In the case of Saurabha Bhatnagar (CS ’02), who built twin areas of expertise in health care and software before those sectors began to  

"I just loved two things, and then a multibillion dollar service that began as a teen in suburban Detroit. Bhatnagar also still sometimes volunteers as a doctor in Boston-area clinics, continuing the tradition of health care service that began as a teen in suburban Detroit.

"I still love the things that I loved back then, like delivering food trays, spending time with patients and family members, and tinkering with technology," says Bhatnagar. "It’s also important to me to carve out enough time to make sure I’m close to where health care is actually happening, which is at the bedside."

Projects (IPRO) Program, where he worked on a project involving a United Nations war crimes tribunal, for showing him the value of multidisciplinary teams.

"Most interesting work [in health care] happens in a very interdiscipli- 

"Part of why it’s so complex to navigate our antiquated health care systems is that there is no operating system-type model for health care.

"He’s very flexible and nimble and open to taking on new roles and learning. He’ll say, ‘I may not know exactly how to do this, but I will work with this other team to figure it out and build the things that we need,’” says Ashwini Zenooz, Commure’s CEO.

At Commure, Bhatnagar and Zenooz are working together to create what they call an operating system for health care: a platform that will facilitate interoperability and workflows among different health tech applications and software systems, including some cumbersome legacy tech that has proven challenging to integrate for many health systems. It’s a substantial challenge, which is part of what attracted Bhatnagar to the company.

“We’re solving a core technology problem around access that I’ve been trying to work on at every stage of my career—and now here is a company that was created specifically around that,” Bhatnagar says. “Part of why it’s so complex to navigate our antiquated health care systems is that there is no operating system-type model for health care. We’re working to create one, and that’s super exciting, even though it’s a very technically challenging problem. There were all the right puzzle pieces to do something, and now we got to do the fun part of creating, building, and executing the solution.”

One of the key challenges that Commure must overcome is to meet the different needs of several different categories of users, including patients, clinicians, and hospital and payor administrators. That’s where Bhatnagar’s background in design comes in handy, because he excels at ensuring that Commure keeps the needs of all those stakeholders in mind while devising its solution.

“He’s empathetic to the needs of the clinicians and care team members who are going to be using [Commure’s product], but it is also able to push back and say, ‘We need to think about patients first,’” says Zenooz. "And he’s able to do that in a collaborative way that leads to agreement because he isn’t political or bureaucratic—he actually just wants to bring people together so they create the best experience for our users.”

In addition to his work at Commure, Bhatnagar remains active at Harvard, where he teaches in the executive education program, includ- ing a new master’s-level course for global health care leaders who are examining the intersection of quality, patient safety, and technology in health care operations. Bhatnagar also still sometimes volunteers as a doctor in Boston-area clinics, continuing the tradition of health care service that began as a teen in suburban Detroit.

"I still love the things that I loved back then, like delivering food trays, spending time with patients and family members, and tinkering with technology,” says Bhatnagar. "It’s also important to me to carve out enough time to make sure I’m close to where health care is actually happening, which is at the bedside."

By Steve Hendershot

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Halcyon Lawrence (M.S. TCID ’10, Ph.D. TCOM ’13) was struck by the oddity: As she tried to clear up a banking issue with an institution in her home country, Trinidad and Tobago, while pursuing her studies in Chicago, the digitized voice recording that was directing her to help was not native to her Caribbean island nation.

It was, instead, what could be considered a traditional American voice.

“Why are we listening to foreign accents in a local context?” Lawrence remembers wondering, looking back on an incident that was initially brought to her attention by her mother in Trinidad as Lawrence studied at Illinois Institute of Technology.

Her mother told her that the bank had left a recorded message saying that eight transactions had been made on Lawrence’s card, despite her using it rarely, leading Lawrence to believe that she had been hacked. In reality, the call to her mother referenced just one transaction.

“It was the first time I started thinking, and he had us thinking about, something other than just the design of communication that was written or visual,” Lawrence says, “that there may have been some sort of sociolinguistic or maybe even an environmental reason why these errors were happening.”

Lawrence saw that void and dove in.

Her essay, “Siri Disciplines,” published in Your Computer Is on Fire in 2021, explored the bias that voice technologies such as Siri have toward people who speak with non-western accents.

“A lot of people talk about language diversity in the U.S. just from a U.S. perspective, but Halcyon talks about it through a world-wide perspective,” says Laura Gonzales, an assistant professor of digital writing and cultural rhetoric at the University of Florida and a colleague. “It’s such a great way to illustrate language and accent bias, and how it plays out in everyday ways. It’s really groundbreaking and unique compared to the other research I’ve seen.”

If technical communication is supposed to make technology approachable, Lawrence’s research shows how far it has to go to make it equitable. Her work often explores the impact of technology not being developed in a way to account for people who don’t have traditional, non-western accents.

She points to the development of an artificial intelligence software that makes non-western accents sound like native western speakers in real time as a prime example of the core issue: reacting to the problem not by examining the design of the communication, but by creating a different technology.

“I remember sitting there and actually sketching out phonetically what my mom heard versus what was said and realizing why it was so easy for her to misunderstand a transaction with eight transactions.”

The tech is happening so fast that we are having to debate the ethics of use in real time,” says Sarah Gunning, associate professor of technical communication at Towson and a collaborator. “Her work starts to shine the light on the potential issues we’re going to run into down the road.”

Lawrence’s work has an inherent social justice component—and while she can see the void in recognizing the deficiencies of the design of sound and speech communication, she also recognizes there is a line to tread.

“I’m asking questions about does more representation address the problem? One of the things that we know about communities of color is that they have traditionally found ways of navigating anti-Black spaces. And language is one of the ways that we do that,” Lawrence says. “What does it mean for me to advocate for these languages to be understood without really thinking about how I am opening up communities of color to more harm?”

That approach is but one reason, colleagues say, that Lawrence and her work stands out.

“She blends her lived experience and expertise with the research that she continues to learn from and do. It’s a critical combination,” Gonzales says. “I don’t think anyone else can do the research in the same way. That’s why I’m always following her work. Her perspective is so needed in the field, and has been overlooked for a long time.”

More online: halcyonlawrence.com/index.htm
LEWELLYN “DON” MEANS JR. (EE ’89) saw the rewards of a life of service from an early age. He says that the power that he gained from watching his parents give back to their community has carried him throughout his career.

“It’s easy to see the value when you bring people together to do good things,” Means says. “It’s satisfactory in and of itself.”

Means says it wasn’t uncommon for him to see his parents reading books to schoolchildren, volunteering with United Way, or helping at a local clothing drive. Both of Means’s parents also made their careers in service. His father, Lewellyn Means Sr., served in the United States Navy. His mother, Sandra Means, served on the Rochester, Minnesota, City Council for 13 years.

Seeing his parents incorporate service into their careers inspired him to do the same.

“I didn’t have to look any further than my parents for any heroes or mentors or leaders,” he says. “Throughout my parents’ careers in public service, the common thread that continues to inspire their partners’ lives is at stake.” Means says. “Their lives are at stake. They are keenly aware they are of cyber discipline,” Means says. “Their partners have a cybersecurity role to play to ensure that DISA’s combat communications network operates continuously, is properly maintained, and is secure.

Means says that the network fends off hundreds of millions of cyberattacks a day, and just one successful attack can affect the ability of soldiers on the battlefield to carry out their missions.

The attackers themselves come from a variety of backgrounds. Some attackers are state-sponsored. Some are from the criminal element or terror organizations. Others are hackers looking to make a name for themselves.

“They are not idle,” Means says of the attackers. “They have refined their attacks, and will push to find a vulnerability. They aggressively attack, gather data, and threaten our way of life.”

Means says the biggest challenge to keeping the network secure is having an understanding of the different methods that the variety of attackers use, as attackers are always looking for new ways to gain access to their targets. In his center, Means stresses the importance of being proactive and preventative to stay ahead of the adversaries.

“First, you’ve got to take care of the known knowns,” Means says. “From there you start to work to find the unknowns, or nuanced attacks.”

Overseeing the DISA communications network means that every level of combat command has to be disciplined in cybersecurity. The network must be designed with cybersecurity in mind. Means says that the cybersecurity team extends to the designers and coders who build it.

Each person who relies on the network has a cybersecurity role to play to ensure it is safeguarded. It’s another way Means works to bring people together to make a greater impact.

“The closer to battlefield, the more keenly aware they are of cyber discipline,” Means says. “Their lives are at stake. Their partners’ lives are at stake.”

As senior executive and director of the Defense Information Systems Agency’s (DISA) Operations and Infrastructure Center, Means oversees tens of thousands of miles of fiber optics infrastructure that serves as the main communications service for U.S. military combat operations from the White House to the foxhole.

He began his association with DISA while he was serving in the Navy. He was stationed in the National Military Command Center in the Pentagon, and was assigned to DISA.

“It was an amazing experience, supporting the secretary of defense and the Joint Chiefs of Staff,” he says.

He later worked with DISA as a contractor with Karyltheon Technologies. In 2000 he had the opportunity to join DISA, where he has risen through the ranks. Means began his career as an officer in the Navy, which he entered after completing the Naval Reserve Officer Training Corps program at Illinois Institute of Technology.

“I always had an affinity for the Navy,” Means says. “My father served in the Navy, and my uncle served in the Merchant Marines. Illinois Tech ROTC was a great way for me to start my military career.”

During each step of his career, Means says he has seen the effect of his service grow.

“As a youth, I saw the local impact of service,” Means says. “In the Navy, that expanded. I was working with a band of fellow warfighters, providing a service to the nation. Now, with DISA, I am not only supporting the nation, but also our allies on a global scale.”

“It’s easy to see the value when you bring people together to do good things. It’s satisfactory in and of itself.”

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PHOTO BY MICHAEL REITER
**Class Notes**

**1960s**

**STEPHEN MCCLURE** (PHYS 64) was appointed as a fellow of the American Astronomical Society for his historical research in early astronomy and for his service to the society’s Working Group on the Preservation of Astronomical Heritage.

**JOHN OUN** (ME 64), Carmel Valley, Calif., was inducted into the Hall of Fame on Friday, September 16, 2022, during the university’s Homecoming 2022 celebration.

**N.J. “PETE” PONTINER (ARCH 64, M.S. CRP ’62), Wheaton, Ill.,** received the Professional Achievement Award at the 2022 Alumni Awards Celebration.

**JEFFREY DENENBERG (M.S. EE ’61, M.S. PHRD ’03), Burr Ridge, Ill.,** served as the associate director of the Chicago and Illinois Valley, Calif., was inducted into the AIAA’s Hall of Fame for his service to the society’s Working Group on the Preservation of Astronomical Heritage.

**FRANCIS KULACKI (ME 64, M.S. GE ’96), Wyatia,** received the Professional Achievement Award at the 2022 Alumni Awards Celebration.

**DAVID ROGERS (M.S. EE 94), Fargo, N.D.,** retired from North Dakota State University. He has spent over 40 years of service and was given the title of emeritus professor.

**BOB FREY (CHEM 60), Seattle,** received the Collens Merit Award at the 2022 Alumni Awards Celebration.

**WARREN LETZSCH (ARCH ’70),** received a Professional Achievement Award and the title of emeritus professor.

**DAVID ROGERS (M.S. EE 94), Fargo, N.D.,** retired from North Dakota State University. He has spent over 40 years of service and was given the title of emeritus professor.

**BOB FREY (CHEM 96), Seattle,** received the Collens Merit Award at the 2022 Alumni Awards Celebration.

**HARVEY LIECHT (CHE 97),** Ellicott City, Md., was named a fellow of the American Institute of Chemical Engineers.

**JEFFREY DENENBERG (M.S. EE 68, PHD ’71), Trumbull,** Conn., received the Collins Medal of Honor at the 2022 Alumni Awards Celebration.

**TOM KORZENIOW (FPE ’69, CHE ’70), Pasedena, Calif.,** received the designation of an honorary member of the Chemical Institute of Canada.

**STEVEN TEETS (ARCH ’96), San Diego,** joined Gensler USA Corporation as managing director of project and construction management on November 15, 2022.

**TORRENCE L. HINTON (ME 96), Chicago,** was named a fellow of Peoples Gas and North Shore Gas.

**2000s**

**SAID AL-HALLAJ (PHD ’00), Chicago,** received the Professional Achievement Award at the 2022 Alumni Awards Celebration.

**RENIE B. CZERTA (M.S. PHRD ’93), Arlington Heights, Ill.,** was named in the Wall Street Journal as a top performer at Cushman & Wakefield.

**MICHICHI HEMPEL (LAW ’00), Los Angeles,** was appointed as an immigration judge to the Board of Immigration Appeals.

**ALUMNI NEWS**

**ALUMNI NEWS**

**Education Engineers Success**

If there ever was a person who could singularly embody the idea that learning is a lifelong endeavor, it is Ralph L. Barnett (EE ’55, M.S. MAE ’58, Ph.D. CE ’20).

The journey that began in the 1950s while he was an undergraduate student at Illinois Institute of Technology continues today, as Barnett, at 89 years old, remains an active leader in the safety design industry—and he recently added a new title to his lengthy list of accomplishments: recipient of a doctorate in civil engineering.

“It means a lot to me,” Barnett says, “but it really means something to every university that has an old timer get a Ph.D and makes a contribution. It means the world to me,” Barnett says, “but it really means something to every university that has an old timer get a Ph.D and makes a contribution.

Barnett’s impressive achievements.

**“I don’t care what you study or where you enroll, everything is relevant when it comes to becoming an engineer.”** —Ralph L. Barnett

He started work on his doctorate in the 1980s and had much of it accomplished before starting his career. But to earn his doctorate, he would need to write a thesis. With a lifetime of experience to draw from, and the cooperation of Illinois Tech leaders such as Interim Provost Kenneth T. Christensen, Barnett spent two months working on a thesis that he finished late last year.

On August 4, 2022, with Christensen and Illinois Tech President Raj Echambadi on hand, the university celebrated yet another of Barnett’s impressive achievements.

“We had the president and the staff that were so important in this process,” Barnett says of the celebration. “I have 60 days to do a thesis, and I’m giving them a chapter every week. Every one of these men has to stop everything they’re doing and read this chapter….We did this for eight weeks (and) everybody rolled up their sleeves, and they just did a phenomenal job.” —Andrew Wyder

**CALVIN K. BARNETT** (MATH 91), North Terrace, Adelaide, Australia, received the Professional Achievement Award at the 2022 Alumni Awards Ceremony.

**SCOTT PIZZAN (DIGN 93), Glenisco, Ill.,** is the proud papa of nine grandchildren.

**JAMES MURADA (ME 74), Mokena, Ill.,** was appointed as a vice president at Sargent & Lundy, an engineering firm in Chicago.

**CHRISTOPHER KENETH (M.S. DIGN 90), Evanston, Ill.,** was named a fellow of Applied Research Associates Inc., a 1,500-member national science and engineering consulting firm.

**JANIS HJORT (PHD. ECE ’89),** Brookfield, Wis., received the Professional Achievement Award at the 2022 Alumni Awards Celebration.

**KARY SILINGER (MBA ’90),** Fortville, N.H., is nearing retirement, and is enjoying gardening; rebuilding a house built in 1905; playing with her dog, Tull; and working part-time as deputy tax collector for a small, quintessential New England town.

**DAVID WATROSKI (M.S. EE ’95, M.S. CE ’96), Woodstock, Ill.,** was awarded the 2021 Business Patent of the Year by Motorola Solutions Inc. Dakota, Bowles, N.D., received the 2022 United States Patent Number 8,605,650: “System and Method for Interrupting a Transmitting Device in a Communication System.”

**JOHN ERBE (EE ’96),** Geosat, Austin, Texas, received the Alumni Awards Celebration.

**PETER HANIK (CHE ’72),** Houston, Texas, retired from GE Aviation and manufacturer of highly recognized, benchmark, and one-of-a-kind airplane seats, among many others.

**JASON TRENCH (EE ’02),** Naperville, Ill., has founded multiple companies in the safety realm, including Triodyne, Inc., and Method for Interrupting a Transmitting Device in a Communication System.”

**JONATHAN ATWOOD (CHE ’96),** West Lake, Ohio, has retired from Geosat. He has obtained 36 safety patents for products such as pool drains, household appliances, and airplane seats, among many others. Triodyne, he has provided legal support and also the responsible conduct of research, with a focus on increasing diversity and inclusion.

**SUSAN J. BURR (M.S. ECE ’96),** Long Island, N.Y., joined Triodyne as its director of legal recruiting and placement in the Austin, Texas, area.

**CORINNE TRTAN (CE ’00),** Arlington Heights, Ill., was named a fellow of the Illinois Institute of Technology while continuing his career. But to earn his doctorate, Barnett had to do a thesis, and I’m giving them a chapter every week. Every one of these men has to stop everything they’re doing and read this chapter….We did this for eight weeks (and) everybody rolled up their sleeves, and they just did a phenomenal job.” —Andrew Wyder
I was the moment that Thanksgiving became more than a family meal. More than a decade ago, Sam Gunda (EE ’90) welcomed a small group of international students from Illinois Institute of Technology to his home in Addison, Illinois—a village just west of Chicago—to celebrate the holiday.

Gunda began the proceedings with a speech about Thanksgiving that still resonates with his daughter Indira Saladi (M.S. EE ’93). “It was the most impactful and powerful, because he would say that Thanksgiving is our holiday. It is the immigrants’ holiday,” Saladi remembers. “It is a celebration of new people to the United States. It really changed the way we all thought of Thanksgiving.”

That first gathering at the home of Gunda and his wife, Seetha, was the impetus for the creation of the Satyanarayana (Sam) Gunda International Student Thanksgiving Celebration Fund, which Saladi and her mother started in honor of Gunda, who passed away in October 2020. The fund organized its first Thanksgiving meal for more than 80 international students in The McCormick Tribune Campus Center on Illinois Tech’s Mies Campus last November.

It is a fitting tribute to Gunda, whose own experience at Illinois Tech included a Thanksgiving meal that left an impression on his family.

Gunda arrived from India to study engineering at Illinois Tech in 1971, with Seetha and Saladi arriving in 1972. The following year, the Gunda family was invited to spend Thanksgiving at a dinner arranged specifically for international students and their families by Illinois Tech. “When we came to the U.S., we didn’t know much about it,” Seetha says, referring to Thanksgiving. “That was very unique to have a host family, and it was a wonderful memory.”

That experience eventually led to the Gundas hosting Illinois Tech international students at their home for a traditional, Ameri- can Thanksgiving dinner for the students’ first Thanksgiving—just like they had. Over the years it transitioned to an international-style meal, but the atmosphere, focused on making everyone feel welcomed, never changed.

An engineer by trade, Gunda was an entrepreneur and business owner, a volunteer for a multitude of organizations and schools in Addison, and, later in life, a fitness champion who, after started running at age 60 and biking soon after, competed in marathons in Chicago, London, New York, and Antarctica, as well as many bicycle racing events. He also uplifted the village he was born in by funding education and health care services.

It is that zest for life and tremendous impact that Saladi hopes the students take away from the Thanksgiving event. “My father made a difference and each Illinois Tech student can as well. When my father immigrated as a student to Illinois Tech, he had no idea what the future would hold.” —Indira Saladi

Memories Made of a Meal

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Related Articles:

“Thanksgiving: A Time of Giving”

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I want to hear from you. Send us your class note by visiting alumni.iit.edu/class-notes. Submissions may be edited for style and brevity.
An Update from the Alumni Board Chair
Bob Hoel

A s an Illinois Institute of Technology alumnus and trustee, it is my greatest honor to serve as the next chair of the Illinois Tech Alumni Association Board of Directors. I must first acknowledge the remarkable leadership of former board chair Sherry Littlejohn (M.S. CE ‘82), whose inspiring service to our institution began long before she took on this role nearly four years ago. I am eager to build upon the foundation that she—and the many other great leaders before her—established at the university.

For more than a century, Illinois Tech has stood at the crossroads of exploration and invention, advancing the future of Chicago and the world. Through experiences that blend technology and human-centered education, the university remains committed to providing an environment in which all members of our community are able to realize their full potential.

From the moment that students step foot on campus, they become part of a vibrant community—joining the talented thinkers, doers, and innovators that preceded them. And as members of the Illinois Tech Alumni Association, it is our responsibility to serve the students, both today and for generations to come, with zeal and integrity.

I like to think of the students at Illinois Tech as “alumni in training.” Although our alumni have their own individual talents and singular accomplishments, they do all have one thing in common: they were students at Illinois Tech, students who were eager to create exponential impact in our world.

Students are the heartbeat of Illinois Tech: their passions and endeavors are at the epicenter of everything we do. If we did not have students, we would not have the university that we all know and love.

In this new role, it is my goal to continue to provide students with the opportunities and resources that will encourage them to contribute to the great work being done on our campus, even long after they walk across the stage. Illinois Tech alumni have an opportunity to help build a distinctive experience that students can receive only at this institution and to inspire the next generation of Scarlet Hawks.

Earlier this fall, a historic $1 billion fundraising campaign was announced to further the university’s founding mission: to harness the power of collective difference to advance technology and innovation for all. With that, I invite you to join me in supporting our future alumni in any way that you can through Power the Difference: Our Campaign for Illinois Tech. Learn their unique stories, donate your time and resources, and continue to elevate the Illinois Tech community as a whole. If you would like to personally join us in recruiting new Scarlet Hawks, mentoring a current student, or participating in a panel discussion, please visit www.iit.edu/differencemaker to get started.

Today, we are in a world that continues to call for new and compelling ways of thinking, and our alma mater was born to answer that call. I look forward to working together to power the difference that is Illinois Tech.

Sincerely,
Bob Hoel (BE ’70)
Trustee, Board of Trustees
Chair, Alumni Association Board of Directors
rhoeil@hawk.iit.edu

We are in a world that continues to call for new and different ways of thinking. Illinois Institute of Technology was born to answer that call by building off of our founding purpose—one worth $1 billion.

This fall the university announced a $1 billion fundraising goal for Power the Difference: Our Campaign for Illinois Tech. On September 15, 2022, with Vice President for Advancement Ernie Isenminger as emcee, Illinois Tech President Raj Echambadi and Board of Trustees Chair Michael P. Galvin (LAW ’78) delivered what has now been dubbed the “Billion Dollar Sermon.”

This historic announcement demonstrates Illinois Tech’s unwavering commitment to its mission—to uplift people of all backgrounds with an education that will help meet the needs of the age and to empower the next generation of leaders to seek solutions to better themselves, the Chicago area, and the world.

Today, Illinois Tech is writing the next chapter of its firm foothold as a global leader in inclusive innovation. The Power the Difference campaign strengthens the university’s role as an engine of opportunity, providing access to academic excellence and practical learning for students from all backgrounds and bringing those perspectives together to drive innovation for all.

"The technological transformation of higher education creates an exciting potential for Illinois Tech’s future growth. We now have an opportunity, rooted in our founding mission, to create a new type of university for the twenty-first century," says Echambadi. Focused on making Illinois Tech’s long-term strategic plan a reality, the Power the Difference campaign will help the university grow its student body; invest in faculty, facilities, and educational programs; develop and deliver new, world-leading research programs; and serve as the premier technology-focused university in Chicago.

The Future
The Power the Difference campaign— the largest fundraising effort in university history—will catapult Illinois Tech into a new era, allowing us to reimagine education and empower future innovation. The difference that we choose to make today will mean exponential improvement in the lives of others tomorrow.

"Illinois Tech is leading the way in empowering students with the skills needed to drive scientific and technological advancement on a global scale," says Isenminger. "Power the Difference is designed to shape the next century of leaders and create the next era of innovation for the world. It will take everyone to successfully reach our campaign goal, but I am confident that our alumni and university community will continue to rally in support of this inspiring cause."

Our future is calling us, just as it did more than 130 years ago with the "Million Dollar Sermon." And this is our time to respond to that calling. This is our time to power the difference.

— Brianne Meyer
John W. Rowe

A University Regent and former chair of the Board of Trustees, John W. Rowe passed away on September 24, 2022. Rowe, who served as chair from 2005–13 and was a member of the board for 25 years, was a long-time business leader, including serving for 14 years as the chief executive officer and chairman of Enron, a Houston-based corporation that he helped build into one of the largest utility holding companies in the United States. All Illinois Tech Royes was a leader and transformational philanthropist. Joining the Gunsaulus Society is easy. An estate gift to Illinois Tech demonstrates your commitment to the values that were instilled at our founding, which is why we recognize your gift with induction into the Gunsaulus Society, a highly respected group of individuals who, like Frank Gunsaulus, put their beliefs into action for a better future.

Gunsaulus | SOCIETY

The Gunsaulus Society is named after Frank Gunsaulus, the first president of Armour Institute of Technology and orator of the famed “Million Dollar Sermon,” which led to Armour’s founding and, eventually, the establishment of Illinois Institute of Technology. The guiding principles set forth by Frank Gunsaulus continue to resonate: belief in the advancement of knowledge, the cultivation of invention, and the importance of preparing students for a life of achievement, service, and fulfillment.

An estate gift to Illinois Tech from your IRA will count toward your required minimum distributions.

William V. Johnson (LAW ’66)

An accomplished trial attorney, William V. Johnson (LAW ’66) passed away on January 28, 2022. Johnson joined Johnson & Bell in 1973 and became the firm’s partner in 1979, helping to grow more than 50 attorneys and gain a national reputation. A veteran litigator, Johnson tried civil injury cases and defended many commercial liability, professional liability, and trade secret cases around the United States. Johnson was a fellow of the International Academy of Trial Lawyers, the International Society of Barristers, and the American College of Trial Lawyers, and was a past president of the Chicago Society of Trial Lawyers.

James M. Lommel (MET ’03, M.S. ’04, M.Eng. ’04)

An engineer who received nine patents during a long career at General Electric, James M. Lommel (MET ’03, M.S. ’04, M.Eng. ’04) passed away on June 25, 2022. Lommel attended GE for 58 years, beginning in 1973, when he worked as a medical asset at GE Research Laboratory in Niskayuna, New York. He also worked for GE’s Information Sciences Lab, served as manager of Whitney Information Services, and was a past president of the Institute of Electrical and Electronics Engineers Magnetics Society and past chairman of the Magnetics and Magnetic Materials Conference and the Informing conference.

Jotham G. Friedland (Ph.D. PSYC ’72)

The former director of the Institute of Psychological Services at Illinois Tech, Jotham G. Friedland (Ph.D. PSYC ’72) passed away on April 22, 2022. A psychologist, Friedland specialized in career counseling and co-authored a test that measures aptitude and motivation. Friedland also served on Illinois Tech’s Alumni Association Board of Directors and on the former Letois College of Human Sciences Board of Overseers.

Donald E. “Don” Hausknets (PHYS ’64)

A former educator at the University of California, Los Angeles, Donald E. “Don” Hausknets (PHYS ’64) passed away on February 2, 2022. Hausknets retired as the manager of information sciences and engineering class programs at UCLA. An activist alum, Hausknets served as a member of Illinois Tech’s Class Reunion Committee and as a regional alumni volunteer.

Walter H. Parshley (BE ’56)

Walter H. Parshley (BE ’56) passed away on February 18, 2022. A Chicago native, Parshley co-founded Aermi Corp, a company based in south Holland, Illinois, that designs and manufactures high-performance process equipment, including furnaces, kilns, and incineration equipment.

James D. Thompson (EE ’64)

An engineer in the aerospace industry, James D. Thompson (EE ’64) passed on November 20, 2022. Thompson spent his entire career with Hughes Aircraft Company—which was acquired by General Motors and became part of the reformed subsidiary, Hughes Electronics Corporation—ranging to the vice president level before the old Hughes purchase. His work focused on satellites.

Books P. Stamper (EE ’41)

Stephen Adrian Tomson (EWRN ’41)

Edward G. Egan (EE ’41)

Richard Raymond Schwartz (PSYC ’41)

William Charles Cowperthwait (ARCH ’60)

Robert E. Beck (ARCH ’53)

G. Harry Ashbridge (EE ’53)

Frederick A. Sanders (ME ’52)

Mark Karlen (DSGN ’52)

Irving Suson (EE ’51)

Sol Hasson (ME ’51)

Joseph B. Goldenberg (ME ’48)

Anthony L. Dini (CE ’48)

Thomas F. Harrington (EE ’61)

William Charles Cowperthwait (ARCH ’60)

Robert L. Centner II (IE ’71, MBA ’86)

William F. Bunker (PSYC ’71)

Sandra E. Lowe (M.S. REHC ’70)

Robert J. Peterson (ARCH ’53)

James M. Lommel (MET ’53, M.S. ’54)

Philmore J. Hart (M.S. ARCH ’53)

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Five Questions with Weslynne Ashton

Weslynne Ashton is an associate professor with appointments at Illinois Tech’s Stuart School of Business and Institute of Design (ID). Her research focuses on transitioning our coupled social and ecological systems toward sustainability and equity.

Q: What is the circular economy?
A: We’re never going to have a perfectly circular economy, where everything is reused and recycled, but the idea is how can we best manage the resources in a sensible way within the planet’s limits. Circularity offers strategies to transform industrial operations by redesigning products, reducing reliance on virgin raw materials, while creating new businesses for sharing services and extending the life of products, as well as recycling.

Q: How does the concept of multiple capitals better inform how sustainable businesses or organizations are or can be?
A: It suggests that we need to look more broadly at what “value” organizations create and how they use different types of resources to create that value. We have the social (the people element), we have the ecological (everything we get from nature), and we have the technical components (money, machinery, and data). By making it more explicit and visualizing the different buckets of resources and the types of value that are being drawn upon and added to, we believe companies, organizations, and societies can get a more holistic vision of their contributions, the limitations, and opportunities for advancing sustainability of the whole.

Q: Why is food waste a sustainability problem in the United States?
A: Food waste is emblematic of the systems sustainability challenges that we have in the United States and the globe. We produce a lot, and there’s loss all along the supply chain, but the bulk of where food loss happens is with consumers, in their homes and at the places they buy food. About 40 percent of U.S. food waste comes from homes, and about 30 percent from restaurants and groceries. One [issue] is the amount that we’re buying, and a lot of that is perishable. But there’s also confusion with date labeling. The “best by” versus the “use by” date confuses consumers and makes them think that something’s not good anymore.

Q: How does the nationwide RECIPES project, in which you are participating, aim to reduce food waste?
A: RECIPES takes a systems perspective and recognizes that there’s a tremendous amount of good work being done at multiple levels across the country to rescue and reuse food waste. At ID, we’re building our Food Systems Action Lab, and RECIPES is one of our main projects. We are developing design frameworks to better visualize current systems, identify key players and understand what they’re doing, and facilitate interactions among diverse actors in order to create more sustainable and equitable food systems.
Keep in touch.
Visit www.iit.edu/university-news or follow us on social media to learn about all that is happening at Illinois Tech.

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