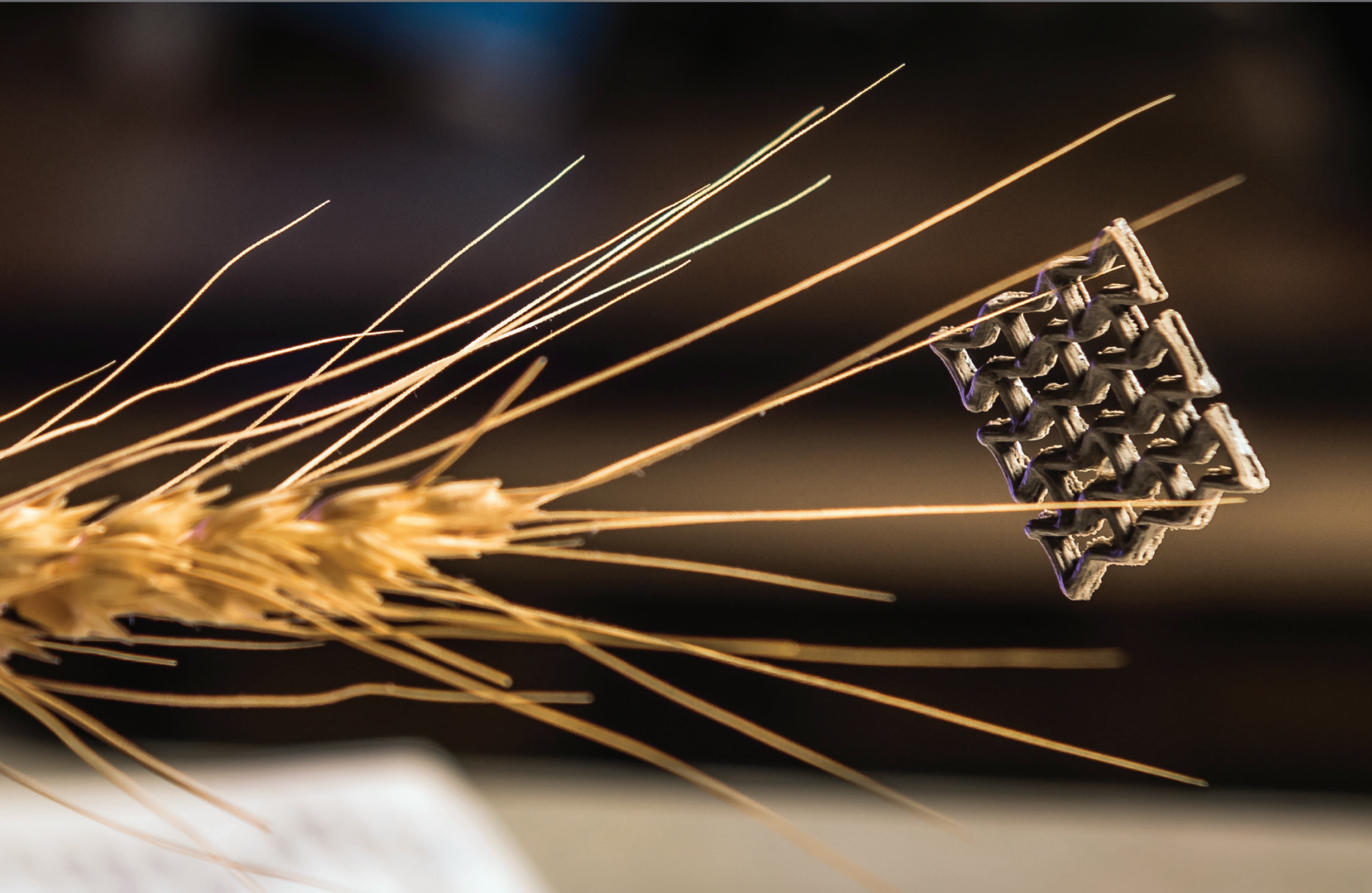


ALUMNI CONNECTIONS

INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

SPRING 2018

COLLEGE OF ENGINEERING



KANSAS STATE
UNIVERSITY

FROM THE DEPARTMENT HEAD

Dear alumni and friends,

I am happy to share our annual newsletter from industrial and manufacturing systems engineering. This academic year has presented both unique challenges and exciting developments for our department.

I am continually amazed by the commitment our alumni, students and faculty show to improving our department. Extraordinary efforts this year by alumni and student leaders brought to life the Skill Xcelerator — a new program designed to help IE students shape their college experiences around relevant and personalized skill sets to help them excel in their careers.

Through this program and others, our students stand out as active leaders with involvement in student organizations both in our department and throughout the college.

In August, we welcomed two new faculty members, both of whom are off to promising starts as they embrace opportunities to contribute in both teaching and research. They joined a class of young faculty members who have shown incredible drive in making an early impact through their research and contributions to IMSE's strong tradition of excellence.

At the same time, all of our faculty members are challenged by the contradictory demands for greater research production and a steadily growing student body. Our undergraduate enrollment alone has more than doubled and class sizes have more than tripled since 2000, when we had the same number of tenure or tenure-track faculty as we do today.

Despite these challenges, our faculty continue to shape tomorrow's leaders through active learning and team-based projects, and I have every confidence our department will continue to maintain and advance our level of excellence. Never before have all our stakeholders, from students and faculty to alumni and friends, been so united and committed to making a positive impact on our department.

And never before have there been more opportunities for all of you to make an impact as well. Through the IMSE Professional Academy, our mentor program, the Skill Xcelerator, events such as Open House, or even an email or phone call — we welcome your voice, your engagement and your generosity.

And as always — Go Wildcats!



Bradley A. Kramer

Bradley A. Kramer
Professor and Department Head
Ike and Letty Evans Engineering Chair



ALUMNI CONNECTIONS

INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

SPRING 2018

COLLEGE OF ENGINEERING



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A 3-D PRINTED STRUCTURE OF GRAPHENE AEROGEL RESTS ON AN INDIVIDUAL AWN OF A WHEAT PLANT WITHOUT BENDING IT. PRODUCED BY DONG LIN, IMSE ASSISTANT PROFESSOR, AND HIS COLLABORATORS, THE MATERIAL EARNED A GUINNESS WORLD RECORD AS THE WORLD'S LEAST-DENSE, 3-D PRINTED STRUCTURE, WEIGHING IN AT 0.5 MILLIGRAMS PER CUBIC CENTIMETER. Photo: Tommy Theis, K-State Photo Services

LEFT

ABIGAIL HILLIARD, B.S./M.S. IMSE SENIOR, AND ALLYSON DAY, 2017 IMSE GRADUATE, INSPECT PRODUCTS MADE AND SOLD FOR THE MANUFACTURING SYSTEMS DESIGN AND ANALYSIS COURSE LAST SPRING.

ALUMNI CONNECTIONS

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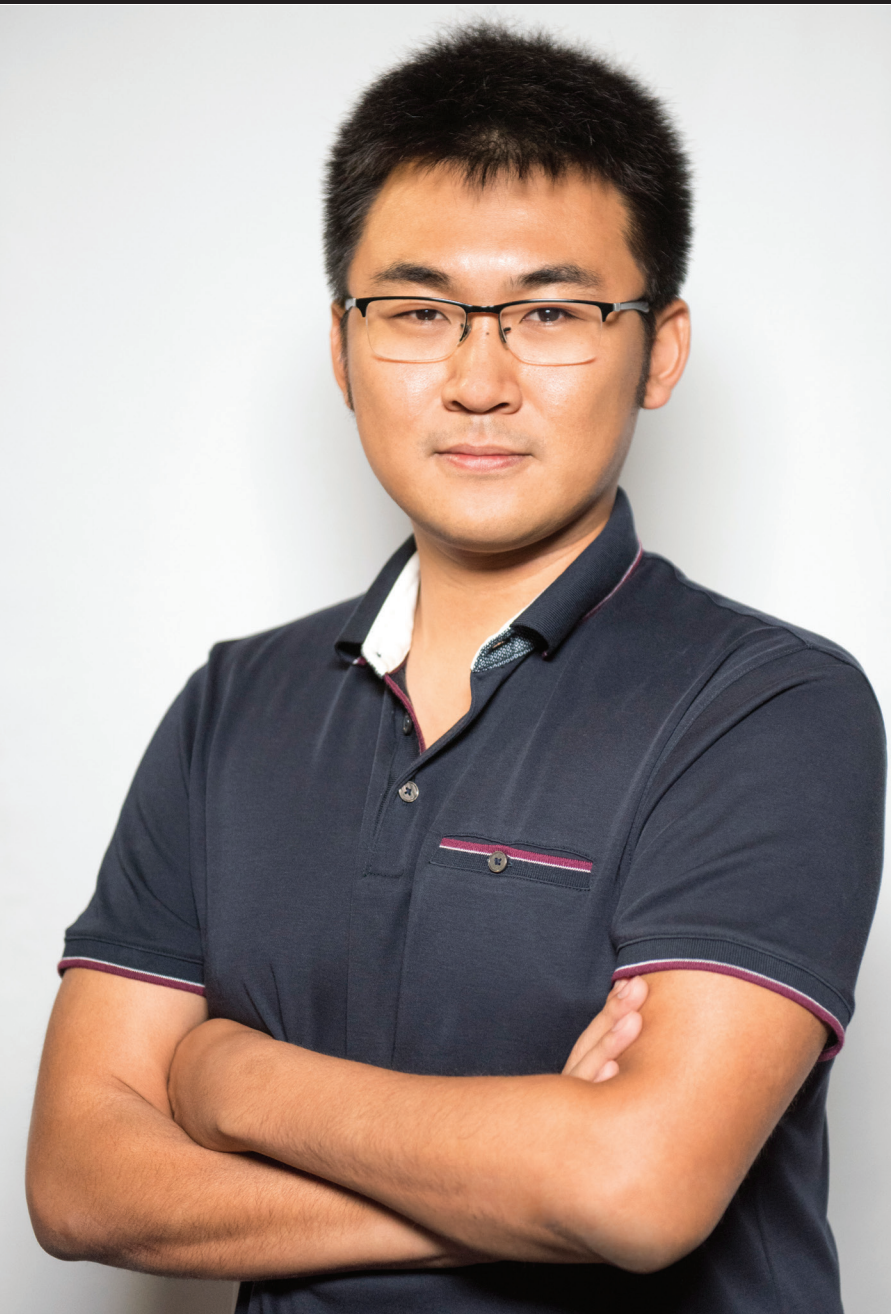
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ZHOU FINDS MULTI-MILLION DOLLAR NICHE IN ASIAN AMERICAN MARKET



You (Alex) Zhou, founder and CEO of the rapidly growing e-commerce site Yamibuy, is a master of understanding his market.

Zhou, 2011 IMSE graduate, came to Kansas State University from China in 2007. "When I decided to study abroad," he said, "my parents didn't want me to go to L.A. or New York because they didn't think the big cities were safe."

It was his experience at K-State and the smaller Manhattan that would later give rise to his multi-million dollar idea.

Imagine a native Kansan living without access to a good hamburger, or any American living without pizza. Zhou craved tastes of home, but those aren't easy to find in small cities like Manhattan.

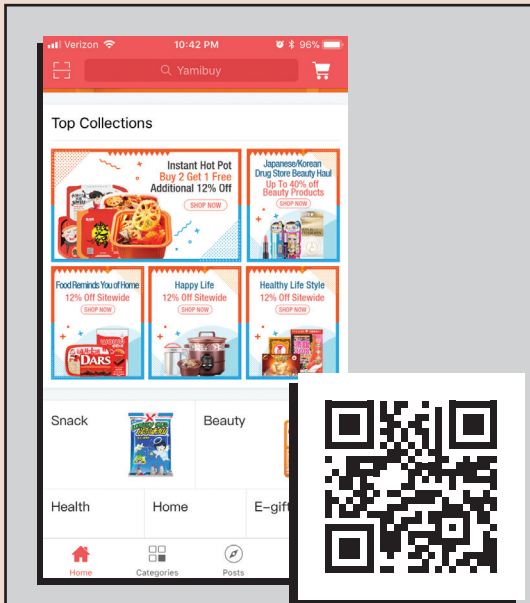
With growing Asian populations at K-State and other universities, Zhou knew he wasn't alone in his struggle to find familiar Asian products. After graduating, he committed to doing something about it. His solution: an e-commerce site that caters to Asian Americans' unique needs and tastes.

He started work on Yamibuy shortly after graduating and launched his site in early 2013. It began as a one-man show, with Zhou working out of a 3,000-square-foot warehouse in Los Angeles selling Asian snack products. He handled everything from placing overseas orders to packaging and customer service.

Today Yamibuy has more than 500 employees and 700,000 registered customers, with more than 500,000 square feet of warehouse space in

Los Angeles and New Jersey. It sells everything from snacks to health and beauty products to home appliances, essentially serving as an Amazon equivalent for Asian populations.

Its swift rise to success earned Yamibuy a rank of 170 on the 2017 Inc. 5000 List, with a cited three-year growth of 2,457 percent. In 2017, Zhou was noted as an Ernst and Young's Entrepreneur of the Year® in the greater Los Angeles region.



See for yourself what Yamibuy has to offer! Available at Yamibuy.com or through the Yamibuy app.

Zhou attributes much of that success to knowing the current demands of his market — the same demands he experienced as a student.

Indeed, many students and some faculty in the IMSE department have benefited from the site. "I know my graduate students use it often," said IMSE professor John Wu.

Zhou began his career at K-State as an electrical engineering major. When it came time to choose his emphasis area, Zhou said, he did not like his options. Given his interest in business, his adviser pointed him to industrial engineering.

He enjoyed the classes, and found much of the academic knowledge he gained to be directly applicable when starting his business. "I had to know how to design a warehouse, how to run a warehouse efficiently," he said.

In addition to numerous products, Yamibuy also offers a number of services, such as online reviews. "The food most people think is good is actually American Chinese food," Zhou said, "but the restaurants we think are good are not suited to American taste."

"A lot of things are like this. We have different standards for business. Whatever Asian Americans need in the United States, I can provide for them," Zhou said.

As the company continues to grow, Zhou said there are plans to expand Yamibuy to other areas with large Asian populations, including Canada, Europe and Australia.

Despite Yamibuy's success, Zhou remains focused on his original mission of making life better for his customers.

"I look at a review on social media and see that a customer has posted a picture of a Yamibuy package and said, 'Thanks, Yamibuy, you make my life easier,'" Zhou said. "That is the awesome part of my business. It's that feeling that you actually achieved something."

By Lacey Brummer



PARTNERING WITH INDUSTRY

Sinha works with former employer to optimize intermodal transportation dispatching

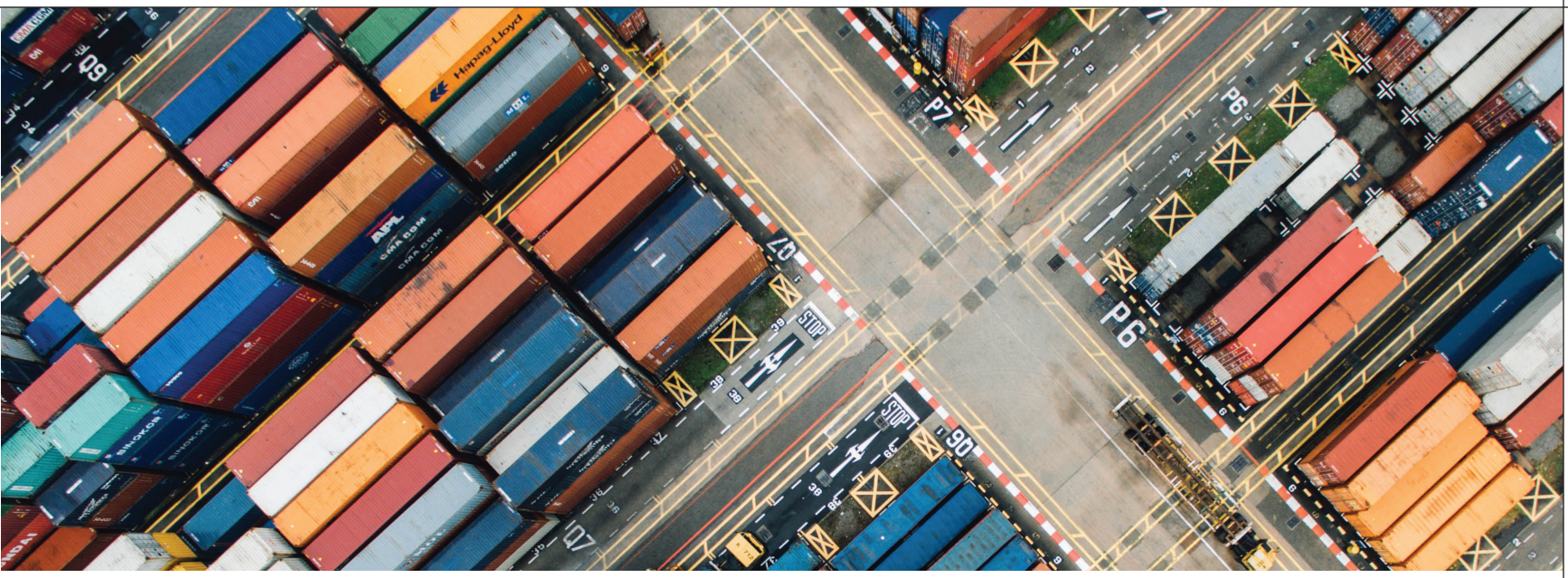
To settle for nothing but the best is a nice motivating sentiment, but one that doesn't always work in the real world.

In transportation logistics, for example, finding the best solution to a routing problem with millions of possibilities could take days to compute. When companies need immediate answers, they often have to settle for good enough.

This reality is, in part, what drove Ashesh Sinha, IMSE assistant professor, from industry to academia. Sinha isn't interested in good enough. He wants the best, and is now working with his former employer to help bring the "best" back to the real world.

During his first semester at Kansas State University, Sinha navigated a challenging industry-university partnership between Schneider, a transportation logistics company, and K-State, to arrange a \$100,000 one-year project titled "Dispatch Strategies in Intermodal Transportation: A Feasibility and Validation Study."

Focused on intermodal transportation services, Sinha is designing a model to optimize routes for truck drivers that include collecting freight containers



from railway carriers, delivering shipments to customers, and picking up and returning empty containers.

Using a column generation approach, in which a finite number of possibilities are evaluated before determining if more should be considered, as well as parallel computing methods, Sinha cuts down on the model's runtime so the problem can be re-solved every five to 10 minutes. When the project is complete, Schneider drivers will have near real-time data with optimized routes.

"In this five-minute time, many things could happen," Sinha said. "The customer might cancel the order or change the delivery time. The railway shipment might be late. You have to solve it continuously because the data is always changing."

He accounts for a variety of uncertain variables — such as weather and traffic conditions, and railway schedules — using integer programming.

With this project, Schneider hopes to overcome a number of limitations to its current dispatch system, including long run cycles and apparently feasible routes that prove counterintuitive in reality.

While Schneider's team works to develop the software and user interface for the final product, Sinha said his research is the

heart of the project. "This is the core that optimizes everything," he said. "If this does not work, then nothing works."

Even so, the project almost didn't happen.

Due to concerns over intellectual property rights, both parties nearly gave up on the deal, but K-State and one champion at Schneider kept the project alive until the two could agree.

For Sinha, the main perk is being able to test his model with real data. "The optimization is similar to what I do in my research," he said, "but without industry collaboration, I have to assume random data. Real results and real data produce much more valuable research."

A previous project Sinha began while working at Schneider and finished at K-State, titled "Dispatch Optimization in Bulk Tanker Transport Operations," was named a finalist for the Daniel H. Wagner Prize for Excellence in Operations Research Practice and will be published in *Interfaces*, the leading INFORMS journal for operations research practice.

Sinha completed his doctorate in industrial engineering from the University of Wisconsin-Madison in 2016. Before coming to K-State in August 2017, he worked at Schneider as an optimization engineer.

By Lacey Brummer



SUPPLY CHAIN WORKSHOP LEVERAGES INDUSTRY AND ACADEMIC PERSPECTIVES

A professional development workshop drew nearly 30 participants — including professionals from area companies and four IMSE graduate students — to K-State Olathe on Feb. 8 to learn effective strategies for improving supply chain operations.

The workshop featured topics on inventory management, procurement, warehousing and transportation logistics, reverse logistics management and holistic supply chain management.

Featured speakers included professionals from Hallmark, Xfinity Mobile and Sprint, as well as K-State faculty members from the IMSE department and College of Business Administration. They presented insights on decision-making processes, improving communication and collaboration, and how to better meet customer needs by increasing capacity.

IMSE faculty speakers included David Ben-Arieh, professor; Deandra Cassone, senior professor of practice at K-State Olathe; and Jessica Heier Stamm, assistant professor.

Cassone and Heier Stamm were the primary organizers of the workshop, while Chwen Sheu, associate dean for academic programs and professor in the College of Business Administration, helped design the case study.



DEANDRA CASSONE, IMSE SENIOR PROFESSOR OF PRACTICE, SPEAKS IN FRONT OF INDUSTRY AND STUDENT PARTICIPANTS DURING A SUPPLY CHAIN WORKSHOP AT K-STATE OLATHE.

“My favorite part was the high level of interaction among participants,” said Ashton Kappelman, IMSE doctoral student participant. “Some were real ‘rock stars’ from industry and everyone had a different perspective to offer.”

“Being able to leverage the experience of both industry and academic experts, I think participants walked away with a real appreciation of the practical and academic contributions in managing supply chains,” Cassone said.

Attendees also had the opportunity to work through an interactive, real-world case study, which allowed them to

apply content they had learned earlier in the day.

“I was pleased with the diverse industry backgrounds represented,” Heier Stamm said. “The different perspectives made for rich discussion about challenges and opportunities in improving supply chain operations.”

Cassone said they hope to use the industry and academic workshop framework in future professional development offerings.

“It was a great collaborative effort,” Cassone said.



X SKILL CELEBRATOR

Alumni and students collaborate to launch career start-up program

For several years, the IMSE department has sought ways to revolutionize education by helping students find their identity and mission among the many career paths available to industrial engineers. This year, alumni, students and faculty have come together to turn these ideas into action.

Spearheaded by Bryce Huschka, his brother, Andrew, and other alumni leaders, the Skill Xcelerator parallels a student’s career to that of a start-up business. It is designed to help students identify what unique set of skills they want to offer “investors”— employers — when they enter the job market, and guide them to identify opportunities to build and acquire the skills they will need to be successful.

In the words of Bryce Huschka, **“We want to bring skills to life like no institution before us.”**

ABOVE: 2011 GRADUATE ANDREW HUSCHKA CHATS WITH STUDENTS AT THE SKILL XCELERATOR KICK-OFF EVENT.

READ MORE



SKILL XCELERATOR

THE IE I WILL BE

Students share résumés of the future with alumni and other professionals

The Skill Xcelerator concept was first brought to students last fall in Todd Easton's Introduction to Industrial Engineering course.

After alumni leaders introduced the program in mid-September, students went through the process of learning a new skill — in this case, speaking in professional settings — with various projects throughout the semester.

"The work engineers do today is constantly changing," said Todd Easton, who instructs the introduction course. "Teaching students how to learn and setting them up with adaptable skills are some of the best ways we can prepare them for success after college."

Students started by watching instructional videos on delivering effective speeches. They then evaluated speeches by various public figures before practicing their own presentations, which they filmed and self-evaluated.

As a culminating project, students imagined the résumés they hope to have four years from now. They presented these "résumés" on Dec. 7 to alumni and other professionals who volunteered their time on campus to provide immediate feedback on both delivery and content of the presentations.

The class dispersed in small groups to more than seven rooms in the engineering complex for the presentations, with each group led by one or two of the volunteers.

"The students had a lot of good things to say about this activity," Easton said. "Having experienced professionals take an interest in their futures made a big impression on them."



BRYCE HUSCHKA, 2007 GRADUATE, SHARES HIS VISION FOR THE SKILL XCELERATOR AT AN EVENT.



JORGE CHAIREZ, IE FRESHMAN, SHARES HIS FUTURE RÉSUMÉ WITH CLASSMATES AND ALUMNUS JOHN HARRINGTON DURING THE INTRODUCTION TO INDUSTRIAL ENGINEERING CLASS.



GABRIELLE LOBO, 2017 GRADUATE, AND ANDREW HUSCHKA, 2007, SHARE FEEDBACK ON STUDENT PRESENTATIONS FOR THE INTRODUCTION TO INDUSTRIAL ENGINEERING COURSE.

SKILLS AND PASSION ADD UP TO BIG DREAMS AT SKILL XCELERATOR LAUNCH

Nearly 80 students, from freshmen to graduate students, signed up to participate in the inaugural run of the Skill Xcelerator program this spring.

They came together on Jan. 28 for an official kick-off event, during which participants were introduced to the skill science driving the program, and began workshoping ideas for their careers and for the program itself.

Alumni leaders, particularly Bryce and Andrew Huschka, invested significant time and resources to help realize the department's goals of revolutionizing IE education. Together with a team of IMSE student founders, they worked to bring the Skill Xcelerator to life this semester.

"I was able to see more than six months of students' hard work come to fruition with the launch of a program that will change higher education," Andrew Huschka said of the event. "I couldn't be prouder of what they have accomplished so far."

During the event, students began working on the "idea" phase of their career start-up. They began by exploring their skills and passions, and worked in groups to identify career possibilities where the two intersect.

"We want students to recognize that they're responsible for their own professional development," said Brad Kramer, IMSE department head. "We want them to know themselves, know where they want to be and really 'own' their careers."

Participants will subsequently work to design their "product" as they focus on skill sets to develop and identify a supportive network to help them along the way.

Part of that network starts with the 26 alumni coaches engaged in the program who will provide feedback on the students' activities throughout the semester.



MEMBERS OF THE SKILL XCELERATOR STUDENT FOUNDERS TEAM AND ALUMNI LEADERS, BACK ROW, FROM LEFT: EMMALEE DEVANE, JUNIOR; ANDREW HUSCHKA, 2011 GRADUATE; JACOB BALZER, JUNIOR; JOSEPH KELLERMAN, SENIOR; NICOLE BECKER, JUNIOR; RYAN MANES, 2014 GRADUATE; FRONT ROW, FROM LEFT: BRYCE HUSCHKA, 2007 GRADUATE; RACHEL KAMM, SENIOR; ABIGAIL HILLIARD, SENIOR; JESSICA ZIDEK, SENIOR; ZACHARY STANLEY, SENIOR; NOT PICTURED: THOMAS ANJARD, SENIOR; KATHRYN COLLINS, JUNIOR; ETHAN COPPLE, JUNIOR; KATHERINE PETERS, SENIOR; JUSTO SANTACRUZ BLANCO, JUNIOR; AND HANNAH WILBORN, SENIOR

"Having so many alumni invested is really inspiring," said Emmalee Devane, a junior and member of the Skill Xcelerator student founders team. "Having input from all these different sources is going to be really valuable."

Three more events are planned throughout the semester, with additional activities and discussions to be shared on Canvas, K-State's online learning management system.

"Students seemed really engaged," Zach Stanley, another student founder, said. "I'm hopeful we can keep that momentum going."



IMSE FACULTY MAKE EARLY IMPACT

Assistant professors in the IMSE department are making big names for themselves with high-impact research and local, national and global recognition.



Jessica Heier Stamm

A 2004 graduate of K-State, Heier Stamm returned to her alma mater in 2010 after completing her doctorate at the Georgia Institute of Technology with a dissertation that was recognized in her field as the best in the world within a five-year period. She then led her doctoral advisee at K-State to win a similar award. With research focused on humanitarian logistics, Heier Stamm strives not only for academic prestige but to truly make a difference in the world. She has found consistent success and recognition in her teaching and research since joining the IMSE faculty, and will be promoted to associate professor beginning in the next fiscal year.

Recent accomplishments

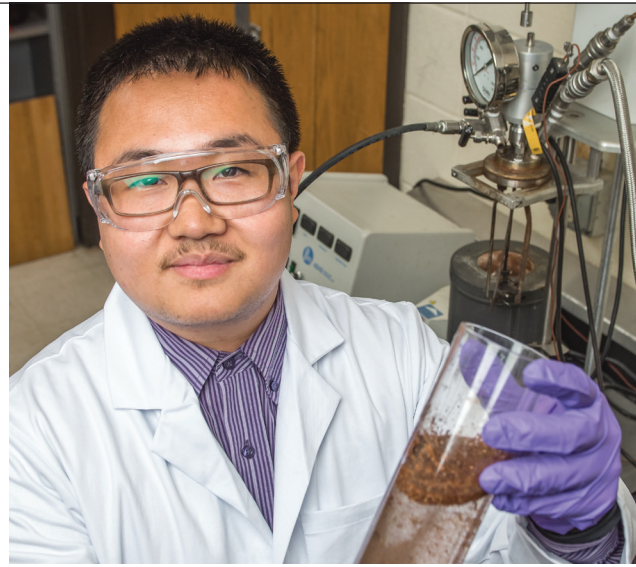
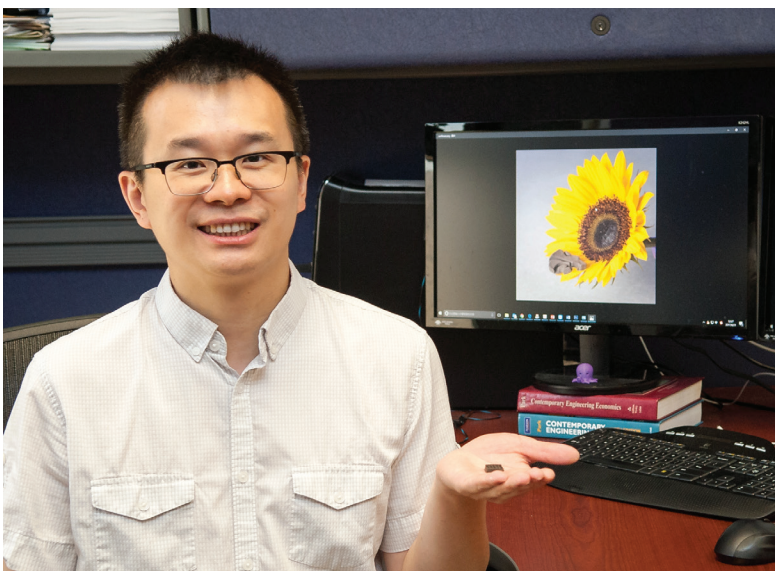
- 2017 – Received NSF CAREER Award for the study of coordinated response efforts in public health emergencies in Kansas. The NSF's CAREER program is one of the most prestigious awards for supporting early career faculty who effectively integrate research and education.
- 2017 – Named a Steve Hsu Keystone Research Faculty Scholar by the College of Engineering.
- 2016 – Received the Kansas State University College of Engineering Outstanding Assistant Professor Award.

Dong Lin

Lin came to K-State in 2015 with expertise in the highly competitive research field of additive manufacturing. He started making news with his novel approach to printing graphene aerogel, an amazingly light, strong and conductive material with potentially revolutionary applications. Graphene sponges prepared by Lin and doctoral student, Pedram Parandoush, are scheduled to board a rocket bound for the International Space Station in May 2018, where they will be used in graphene light-propulsion experiments for future space travel.

Recent accomplishments

- 2018 – Recognized by GUINNESS WORLD RECORDS for the least-dense 3-D printed structure, a graphene aerogel developed by Lin and his collaborators.
- 2018 – Awarded a two-year grant to travel and conduct research on laser shock peening at the State Key Lab of Digital Manufacturing Equipment and Technology in China.
- 2017 – Awarded a \$24,000 grant from the Johnson Cancer Research Center to develop 3-D models of breast cancer cell cultures.



Meng (Peter) Zhang

Zhang has been with the IMSE department since 2009 when he started as a doctoral student. After graduating, he continued to build his research program at K-State with the titles of postdoc fellow, visiting assistant professor and finally assistant professor in 2016. He specializes in renewable energy manufacturing and has consistently drawn funding to support his various research interests.

Recent accomplishments

- 2018 – Named a Society of Manufacturing Engineers Marcus Crofts Outstanding Young Manufacturing Engineer.
- 2017 – Named a Steve Hsu Keystone Research Faculty Scholar by the College of Engineering.
- 2016 – Received a three-year, \$299,969, NSF Civil, Mechanical and Manufacturing Innovation grant for the ongoing project "Increasing sugar yield in biofuel manufacturing through control of cellulosic biomass particle size."

Suprem Das

Das came to industrial engineering by way of another field — having earned his doctoral degree in physics from Purdue University in 2013. Before joining the IMSE faculty last fall, he also gained research experience in electrical and computer engineering at Purdue, and in mechanical engineering at Iowa State University. His interests lie in the intersection of materials physics, device engineering and the manufacturing of nanomaterials.



Recent accomplishments

- 2018 – Sandia National Laboratories approved a user proposal granting Das and his doctoral students access to the laboratory and equipment at the Center of Integrated Nanotechnologies in Albuquerque, New Mexico; and bearing research expenses related to the development of nanoscale transistors.
- 2017 – Published a paper in Physical Review Letters, the top journal in physics, on real-space imaging of the tailored plasmons in twisted bilayer graphene.

Ashesh Sinha

After completing his doctorate degree from the University of Wisconsin-Madison, Sinha took a one-year foray in industry as an optimization engineer at Schneider before returning to academia last fall and taking his position at K-State. His research focuses on developing optimization models and data analytics to address key supply chain challenges at strategic, operational and tactical levels.



Recent accomplishments

- 2017 – Negotiated a \$100,000 project with Schneider to research intermodal dispatch optimization (see page 6 for more information).
- 2017 – Named a finalist for the Daniel H. Wagner Prize for Excellence in Operations Research Practice for a project titled "Dispatch optimization in bulk tanker transport operations," which will be published in Interfaces, the leading INFORMS journal for operations research practice.



WYATT VANDEPOL, IMSE JUNIOR, TREKS THROUGH SOUTHEAST ASIA ON A CAMPUS MINISTRY SERVICE TRIP.



VANDEPOL TAKES IE MINDSET TO SOUTHEAST ASIA

A non-industrialized country may seem an unlikely place to use industrial engineering skills, but Wyatt Vandepol put his IE mindset to the test last summer when he led a campus ministry team on a service trip to Southeast Asia.

Vandepol, now a junior, signed up for this unique opportunity as a sophomore through Christian Challenge, a campus ministry organization at K-State. Though he was the youngest of four K-State students set to go on the trip, he had held a number of leadership roles on campus, including his position as a resident assistant. The campus director asked him to serve as team leader, putting him in charge of everything from safety to logistics.

His work began long before the team left American soil as they prepared for the mental, physical and economic demands they would face. That meant regular meetings to learn about the culture they'd be in, teambuilding excursions, preparing visa and passport documents, and fundraising. Altogether, the team had to raise around \$25,000 to go on the trip.

Among the preparations, most unusual was a suggestion from a contact family living in the area: practice sitting on the floor.

Throughout the eight-week trip, Vandepol and his team trekked back and forth every few days from their home base in a city to isolated villages — often reachable only by foot — where they would offer assistance as needed, get to know the local people and generally break the ice for the Christian church in the area.

Many communities visited had never encountered someone from Western culture and simply wanted to sit and talk — hence the practice. "Sitting cross-legged on bamboo for six hours a day when you're not used to it, could be painful," he said.

In everything from packing for the trip, planning routes from village to village and streamlining communications back to the U.S. without internet access, Vandepol saw his IE skills at work.



VANDEPOL TAKES A SELFIE WITH CHILDREN FROM A SMALL VILLAGE IN SOUTHEAST ASIA.

"I would definitely try to apply what I learned in the classroom," he said, "but I also learned how to communicate industrial engineering ideas with teammates who maybe didn't agree or didn't understand the reasons."

Vandepol also learned a lot about himself throughout the experience. "There were skills I thought I had that I really didn't, and skills that I didn't know I had that I found," he said.

Simple things like keeping a budget in a country with no receipts, he discovered, were much more difficult than he would have thought, but managing crises in a foreign country without modern amenities was less so.

When one of his team members fell ill with what they thought might be appendicitis, Vandepol said, he discovered an

"emergency mode" he didn't know he had. "Just being able to function, getting hold of a doctor in the U.S., seeing the whole system and planning how to get people where they needed to go was surprisingly easy," he said.

He returned to the U.S. with a newfound passion for service. "I would love to go back," Vandepol said. "My dream would be to take what I'm learning here and give it to them."

In the meantime, Vandepol plans to intern at ExxonMobil this summer and is looking forward to learning more about industrial engineering in the real world.

He is currently involved in Engineering Ambassadors, serves as the vice president-elect for Tau Beta Pi and is secretary of Alpha Pi Mu.

By Lacey Brummer



HUSCHKA NAMED DISTINGUISHED YOUNG ALUMNUS

Bryce Huschka has been featured often in recent IMSE news due to his many contributions to the department, most recently for his role in developing the IMSE Skill Xcelerator career start-up program. Now his influence on campus, as well as his professional accomplishments, have earned him recognition as one of Kansas State University's Distinguished Young Alumni of 2018.

The award program, sponsored by the K-State Alumni Association, began in 2013. Two K-State alumni, who are excelling in their professions and contributing to their communities, are recognized each year.

Huschka has worked for ExxonMobil in various roles since graduating in 2007 from IMSE's B.S./M.S. program, and is currently serving as an area manager. Based in Los Angeles, Huschka and his team of engineers are responsible for helping business partners across California, Nevada and Hawaii improve their productivity, energy efficiency and equipment life.

A notable accomplishment Huschka made in this role was helping to lead more than 100 people within ExxonMobil and its business partners to operationally transition more than half of the business — a task that was acknowledged as one of the most successful efforts of any similar project across the globe.

Huschka returned to campus during the last week of February to receive



BRYCE HUSCHKA SHARES HIS "IMAGINARY ENGINEERING STORY" AT THE DISTINGUISHED YOUNG ALUMNI KEYNOTE PRESENTATIONS.

the alumni award. During his keynote presentation, "An Imaginary Engineering Story," Huschka shared his career journey as an industrial engineer and his vision for how the Skill Xcelerator program can change higher education.

The Skill Xcelerator has also impacted Huschka's career path. After completing an activity for the program, he and his wife decided to take a seven-month "learning and giving journey" in Asia.

"Working with the student founders and faculty for the Skill Xcelerator has really opened my eyes to my own start-

up story," Huschka said. "We're going in search of our difference factor." A core tenant of the Skill Xcelerator is identifying and embracing an individual's unique skill set.

Huschka also shared his vision for the Skill Xcelerator with various K-State administrators, including President Richard B. Myers; Pat Bosco, vice president for student life; and Darren Dawson, dean of the College of Engineering. His hope is to expand the impact of the program to the college, the university and beyond.

STUDENT SPOTLIGHTS

Trent Tanking, IMSE senior, was voted team captain for the K-State football team and was named a semifinalist for the 2017 William V. Campbell Trophy, often referred to as the "Academic Heisman" award; and the 2017 Burlsworth Trophy, awarded to the most outstanding player who began his career as a walk-on.

Lucas Verschelden, fall 2017 B.S./M.S. graduate, presented his master's research on integrated optimization and simulation for the locomotive refueling system configuration problem at the 2017 Winter Simulation Conference.

Carolyn Countess, IMSE senior, presented research from her internship with the K-State Pollution Prevention Institute Intern Program at the Kansas Environmental Conference in August 2017. She also had the opportunity to present to the U.S. Environmental Protection Agency in September.

IMSE seniors **Josie Anderson**, **Claire Fisher**, **Carragan Lynn**, **Amy Prieb**, **Kylie Schultz** and **Hannah Wilborn** were chosen as Student Fellows of the Center for Risk Management Education and Research for 2017-18. Juniors **Clayton Couchman**, **Jordan Kiehl** and **Justo Santacruz Blanco** were selected for the 2018-19 class of student fellows. Fellows participate in industry site visits, guest lectures and research projects to increase their knowledge of risk management.

IMSE students, **Luis Coca Urdanivia**, senior, and **Justo Santacruz Blanco**, junior, attended the 2017 Society of Hispanic Professional Engineers Annual Conference in Kansas City in November.

Nibal Albashabsheh, Ph.D. student, received an International Coordinating Council Scholarship for fall 2017.

COLLEGE OF ENGINEERING IE LEADERS

Engineering Student Council

- President — Lily Johnson, senior
- Vice President — Chase Brokke, junior
- Treasurer — Mathew Orzechowski, senior
- Co-Life Coordinator — Michaela Pingel, sophomore
- Director of Records — Hannah Wilborn, senior
- Outreach Committee Members — Anna Christenson, sophomore, and Nicole Becker, sophomore

Engineering Ambassadors

- President — Lindsey Hageman, senior
- Vice President of Selections — Mathew Orzechowski, senior
- Committee Head for Social — Anna Kleibohmer, senior

Steel Ring

- President — Cassidy Harper, senior
- Secretary — Lily Johnson, senior

Tau Beta Pi

- Vice President — Zach Stanley, junior
- Vice President Elect — Wyatt Vandepol, junior
- Recording Secretary — Kayla Paulson, senior
- Treasurer Elect — Racquel Anzalone, senior
- Media Coordinator — Lindsey Hageman, senior
- Display Coordinator — Anna Kleibohmer, senior



CONGRATULATIONS IMSE 2017 GRADUATES

B.S. Industrial Engineering

Spring

Bader Alfeeli
 Abdulrahman Alsumaiei
 Brandon Bell
 Isaac Braun
 Nathan Cole
 Allyson Day
 Daniel Dowell
 Mary Rose Eakes
 Garrett Foster
 Emily Frye
 Ryan Garrett
 Delilah Griebel
 Rachel Hayes
 Gabrielle Lobo
 Zachary May
 Blake Myers
 Lucas Poulton
 Jillian Prather
 Andrew Pruet
 Keaton Romine
 Jacob Rzewnicki
 Marisa Sotelo
 Vernon Vaughn

Summer

Emily Bailey
 Caleb Bartel
 Aaron Jackson
 Elizabeth Kennedy
 Jordan West

Fall

Hamad Aljairan
 Ian Alter
 Mohammed Baba

Jackson Bever
 Christoffer Burgweger
 Brenna Dirks
 Corey Egger
 Aaron Holsworth
 Mathew Kaiser
 Stanten Krone
 Miranda Maass

B.S./M.S. Industrial Engineering

Spring

Larissa Dettmer
 Zachary Kuntz
 Sarah Newell
 Ian Ostenberg
 Tucker Styrkowicz
 Alonso Talamantes
 Adam Temel

Fall

Courtney Faucett
 Lucas Verschelden

M.S. Industrial Engineering

Spring

Sai Medarametla

Summer

Aram Bahrini
 Jordan Gutsch

M.S. Operations Research

Spring

Samuel Clonch
 Pedro Ortiz

Summer

Daniel Sourile

Fall

Andres Donoso
 Cody Quick
 Jeromie Smith
 Ma Guadalupe Vega

Master of Engineering Management

Spring

Douglas Chun
 Christopher Claussen
 Lindsey Dunnahoo
 Adam Gibson
 Andrew Halper
 Aaron Johnson
 Vang Kue
 Thomas Payne
 Avelino Tamez

Summer

Richard Gazdzik
 Dilpesh Patel
 Taylor Smith

Fall

Crystal Jackson

Ph.D. Industrial Engineering

Spring

Songnian Zhou

Summer

Yan Kuang

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BUILD CONNECTIONS.

MAKE AN IMPACT.

HAVE SOME FUN!

The IMSE Professional Academy is open to all alumni and friends of the department. Build your IE network, support students through scholarship and mentoring, and have some fun doing it! We have several events planned this spring around our biannual meeting — come see what it's all about!

For details and to RSVP, contact imse@ksu.edu or 785-532-3720.

Friday, April 20
 SPRING MEETING • SOCIAL AT LAZY T RANCH

Saturday, April 21
 FOOTBALL SPRING GAME • SEATON SOCIETY BANQUET

Sunday, April 22
 SKILL XCELERATOR CLOSING MEETING

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Revised Aug. 29, 2017

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* Term ended after fall 2017 meeting.