

CIVIL MATTERS

TRINE UNIVERSITY

The Reiners Department of Civil and Environmental Engineering

From The Chair

I am very proud of our students' many accomplishments during the 2022-2023 academic year. Our ASCE student chapter recently attended the ASCE Indiana-Kentucky Symposium in Bowling Green, Kentucky, and brought home trophies in three events. At the APAI Winter Conference and Expo, seven students received scholarships. Two Trine students won the student design competition at the ASCE Indiana Section Conference for the first time. A civil engineering alumnus was inducted into Trine's Athletic Hall of Fame. Overall, our students worked very hard this year and had many achievements to show.

Last fall, 30 new freshmen started their college journey as Trine civil engineering students. They are a very talented group of students, and we look forward to seeing what they can accomplish. A total of 29 seniors graduated this academic year with nearly 100% job placement. This class finished their freshman year at Trine with the start of the COVID pandemic. They endeavored through quarantines and Zoom classes as we faculty pivoted to a new reality of teaching hybrid classes. Last year, student leadership from this class organized and hosted a very successful ASCE

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From the Chair

symposium on Trine's campus. And this year they finally head into the workforce, ready to solve the many engineering problems that await them.

This year's newsletter describes our students' accomplishments, exciting events on campus, and the most notable off-campus trips.

Trine civil engineering students were busy with exciting events on campus:

- Homecoming Tailgate
- ASEC Design Expo

Student trips off campus included:

- Ohio Constructor for a Day
- CEPDS
- APAI Winter Conference and Expo
- ISEA Conference
- Purdue Road School
- Indiana-Kentucky Symposium
- Indiana Section ASCE Conference

- Senior Trip to Pittsburgh
- EWB Trip to Ecuador

I enjoy and welcome the opportunity to meet recent and not-so-recent alumni. Please be on the lookout for details on the Fall 2023 Homecoming events.

I hope to see you there! If you are in the area and would like to tour the department or catch up with everything Trine, please feel free to contact me at

greeneg@trine.edu or 260-665-4191.●



Dates to Remember

Civil Engineering Golf Outing
June 16, 2023
Email ssthomson17@trine.edu

Alumni & Friends Golf Outing
August 4, 2023
<https://alumni.trine.edu/golf>

Homecoming
October 7, 2023



Post a Job or Internship Opening

Handshake is Trine University's gateway to jobs, career opportunities, career events and more! Handshake users have the ability to explore and find job and internship opportunities. For more information, please visit: <https://www.trine.edu/career-services/handshake.aspx>●

Trine Faculty

Trine University promotes faculty members

The Trine University Board of Trustees recently approved the promotion of 16 university faculty members.

"We are grateful for all our outstanding faculty at Trine, and proud to recognize these individuals for their teaching excellence and service to the university, their professional field and their students," said Catherine Swick, Ph.D., vice president for academic affairs. "Congratulations to those who earned a promotion in rank, and thank you to all our faculty for the excellent service and expertise they provide to our students."

Timothy (TJ) Murphy was promoted from instructor to assistant professor. Murphy has been the faculty advisor for the Trine student chapter of the American



Society of Civil Engineers for 13 years. In this role, he has led the stu-

dent chapter from nearly being suspended to becoming the second-ranked chapter in the world.

Gary Greene was promoted from associate professor to full professor. Greene is the current Dresser Chair for the Reiners

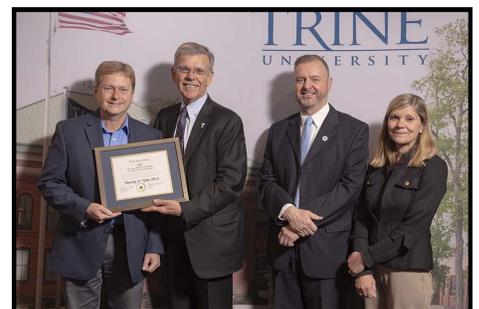
Department of Civil and Environmental Engineering and has won two

McKetta teaching awards at Trine. He is very active in professional development activities, including a summer as



visiting professor for the National Academy of Sciences. He also has earned a \$10,000 grant for student research, and is chair of a very active American Concrete Institute subcommittee. He is an active member of the university lab safety and ethical standards committees. He also develops 3D models for numerous faculty in the Allen School of Engineering and Computing.

Tim Tyler, Ph.D., professor in the Reiners Department of Civil and Environmental Engineering, received the John J. and Mary Gelet McKetta Excellence in Teaching Award in Engineering. •



Pictured left to right: Drs. Tyler, Brooks, Shannon and Swick.

Trine Faculty

Christmas Gathering

The Reiners Department of Civil and Environmental Engineering held their annual Christmas gathering on Saturday, December 10th. Faculty enjoyed axe throwing and dinner at Baker Street Steakhouse in Fort Wayne. ●



Pictured left to right: Bill Barry, Ya Barry, Jeremy Rentz, Michelle Blank, Lynn Tyler, TJ Murphy, Tim Tyler, Kim Greene, Gary Greene, Hemin Mohammed and Awaz Falih.

CHRISTMAS CHEER

Faculty and staff of the Civil Engineering Department each made a donation to decorate a Christmas tree which was donated by Project Help of Steuben County to a local family who probably would not have had a tree for Christmas.

The tree decorating is an annual event. Approximately 40 trees decorated by Trine academic departments, offices and student

groups including ASCE are donated each year. A Tree Decorating Event was held wherein the donors enjoyed snacks and Christmas music while decorating the trees. The trees were then displayed in the Rick L. and Vicki L. James University Center until given to Project Help.

Several local families have benefited from this annual event! ●



Department News

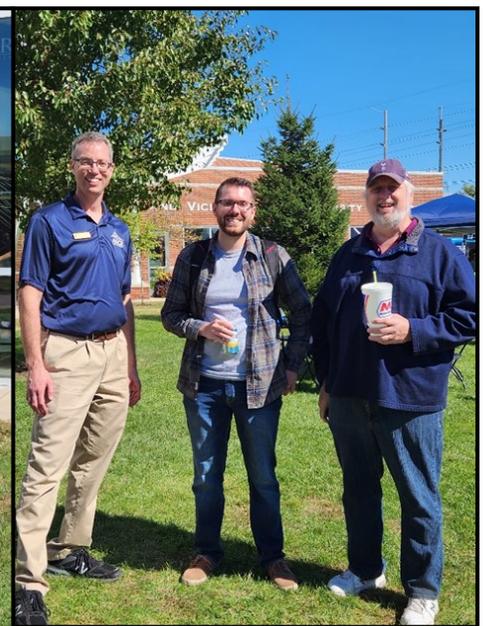
CEE-ASCE Welcome Back Picnic

The annual CEE-ASCE department welcome back picnic was held on August 30th at nearby Steuben County Park at Crooked Lake. Faculty and staff, along with about 25 students enjoyed dinner, playing volleyball and cornhole.



HOMECOMING TAILGATE 2022

Homecoming was October 1st. Visitors were able to catch up and reconnect with alumni, faculty, and staff from Trine University's schools and departments at the academic tailgate. The civil engineering tent enjoyed boxed lunches from Sutton's Deli and a smores bar before attending the Homecoming football game wherein Trine took on Alma.



Department News

HOMECOMING TAILGATE 2022



FALL GAME NIGHT

Students and faculty participated in the department's annual Fall Game Night. Attendees enjoyed playing Euchre and Ticket to Ride. Everyone also enjoyed sandwiches, cookies and chips. •



Department News

Ohio Constructor for a Day

Several civil engineering students had the opportunity to get a closer look at the construction industry during the Ohio Contractors Association Rich DiGeronimo Constructor for a Day program on September 27th . Sponsored by

the organization's Toledo chapter, the event included trips to Hanson Aggregate's Waterville, Ohio, quarry, where students witnessed a quarry blast. They also toured the Michael DiSalle Bridge project in Toledo, Ohio. Students had the opportunity to meet multiple contractors throughout the day. Evan

Holman, president of Trine's student chapter of the American Society of Civil Engineers, said his favorite part was watching the demolition at the rock quarry. "I learned about explosives work and heard from different companies about how to use this understanding of explosive power," he said. ●



Pictured left to right: Ted Hofmeister, Preston Ankney, Annalise O'Daniel, Evan Holman, Dr. Hemin Mohammed, Alex Ponx and Michael Chandler.

Department News

CEPDS 2022

The annual Civil Engineering Professional Development Seminar (CEPDS) was held at Purdue University on November 17TH. CEPDS is a partnership between the Purdue School of Civil Engineering, the American Society of Civil

Engineers-Metropolitan Indianapolis Branch, and Indiana Local Technical Assistance Program (LTAP).

Drs. Gary Greene, Hemin Mohammed and Tim Tyler, along with 14 civil engineering students, attended the annual

CEPDS. The Trine attendees chose from seminars in disciplines of civil engineering including management, bridge, environmental, geotechnical, multi-discipline, transportation and vertical structures.●



Pictured left to right:

Row 1: Arizona Lenski, Lia Vawter, Ryan Gienger, Dr. Gary Greene.

Row 2: Hallie Fenimore, Reece Soel, Dr. Tim Tyler, Erin Haase.

Row 3: Dr. Hemin Mohammed, Jacob Barkey, Ryan Wisman, Aspen Fisher, Ryan Hoak.

Row 4: Evan Holman, William Kennelly, Austin Zank, John Nash.

Department News

Civil Engineering Students Partner with the City of Fort Wayne

In September 2022, Fort Wayne's director of Public Works, Shan Gunawardena, and other representatives coordinated efforts with Trine University's Geometric Highway Design class to discuss a project for seniors in the class.

A working group including the City of Fort Wayne officials and Fort Wayne Trails conducted a video survey of different trail and mid-block crossings over the summer in an effort to make crosswalks and trail crossings safer. One of the focus areas was the Pufferbelly Trail, where several incidents between cars and pedestrians have occurred.

They partnered with Trine University to have engineering students analyze the video and provide what they found and

any recommendations they might have back to the city.

Gunawardena stated that they realize there are many different types of crossings with different styles around the city, and if there is one style of crossing that's working better than others with similar variables, they'll look to make a change to allow for more consistency.

Students conducted studies on a Sunday and Monday during the busiest times for trail users which were 9:00-10:00 am and 3:00-4:00 pm. The students looked at many things as they went through the video: how cars and trail users treat different crossings and factoring in variables such as traffic, speed limit, trail usage, visibility, and signage.

"It's a cool thing to do. I'm from Auburn, so I've heard all about the trail crossing stuff,

and it's a good chance to help the community," Trine senior Jacob Barkey said.

At the end of the semester, the students presented their findings to the city. The working group then started looking at potential changes and how to better educate drivers and trail users. Students concluded that HAWK signs above crosswalks were found to be the safest and had the least amount of pedestrian and car confusion.

"It was a good chance to be able to help the community and a good opportunity to do a real-world traffic study," Barkey said.

Gunawardena said they receive constant feedback from residents about trail crossings. Their hope is to do everything in their power to make sure signage is clear and the crossings are as safe as possible if everyone follows the rules.●

Department News

APAI Scholarship Winners

The Asphalt Pavement Association of Indiana (APAI) named seven Trine University civil engineering majors as 2022 APAI Scholars at its Winter Conference and Expo on December 15th.

Noah Ballard from Tipp City, Ohio, Jacob Barkey of Auburn, Indiana, Kevin Boncaro of Henrietta, New York, Michael Chandler of Peru, Indiana, Benjamin Stoffel of Andrews, Indiana,

Sophie Sloneker of Monroe, Ohio, and Lia Vawter of Indianapolis were recognized during the Hall of Fame Induction Ceremony and Scholarship Awards Banquet.

The event took place at the Horizon Convention Center in Muncie.

Scholarships are awarded by the APAI Scholarship Committee to students studying construction management, civil engineering, and construction

engineering and management at six nationally accredited Indiana universities, including Trine University. Students must complete an in-person interview with members of the Scholarship Committee to receive an award. The total amount of scholarships awarded in 2022 by the association totaled \$45,000 to deserving scholars, in anticipation that many recipients will remain in Indiana and seek employment opportunities with APAI's member contractors.●



Pictured left to right: Jacob Barkey, Lia Vawter, Kevin Boncaro, Noah Ballard, Sophie Sloneker, Michael Chandler and Benjamin Stoffel .

Department News

ISEA Conference

Dr. Bill Barry, along with five civil engineering students Aspen Fisher, John Nash, Austin Zank, Lia Vawter, and Makenna Sheets, attended the Indiana Structural Engineers Association (ISEA) 2023 spring conference on March 2nd in Indianapolis. Topics included:

-Introducing CLT: New Opportunities for Timber Construction –

Anthony Harvey, Woodworks

Masonry Restoration of Older

Buildings – Joe Alberts, IKSMC,

IMI & Scott Walkowicz, WCE

-Champlain Towers Collapse –

Gary Klein, Wiss Janney Elstner

-Delegated Slab Systems: Project Identification, Design and Delivery –

Jason Wimberly, Lithko Contracting

-Preservation of Steel in Concrete

Structures – Brandon Mitchell,

Vector Corrosion Technologies●

Simulator Gives Trine Students Safe Driving Training

Four Trine University civil engineering majors got hands-on experience with safe driving principles in the Indiana Local Technical Assistance Program (LTAP) driving simulator.

Students Aspen Fisher, Ryan Gienger, Austin Smith and Austin Zank all used the simulator while attending the Purdue Road School Transportation Conference & Expo on March 14-15.

Jack Bell, a Purdue University civil engineering graduate student, designed a training program. The workshop was comprised of six sections: Time & Managing Risks/Hazards, Distracted Driving, Basic Maneuvers, Vulnerable Users, Drowsy Driving and Backing & Parking.

“The intended outcome for our students was to gain understanding and familiarity with driving different-size vehicles in various environments and to identify safe driving habits for all drivers regardless of experience,” Dr. Mohammed said.●



Pictured left to right: Dr. Hemin Mohammed, Ryan Gienger, Austin Smith, Aspen Fisher, Austin Zank.

Department News

Chi Epsilon Initiation

Chi Epsilon was founded in 1922 to recognize and honor civil engineering students and professionals. Students and professionals are selected to become members based on recognition of their scholarship, character, practicality and sociability,

considered by Chi Epsilon to be the four primary traits of a successful engineer. For student members, scholarship is determined by being in the top third of their junior or senior class. Members of Chi Epsilon are considered top graduates and are highly sought by civil engineering employers.

Two students were initiated into Chi Epsilon on March 28th in a formal ceremony held in Fawick Hall. These students were Evan Holman and Daphne Bush. A reception concluded the day's events.●



Pictured left to right: Dr. Bill Barry, Lia Vawter, Jacob Barkey, Hallie Fenimore, Erin Haase, Makenna Sheets, Daphne Bush, Bill Kennelly, Evan Holman, Camden Nagel, Sophie Sloneker, and Dustin Huffer.

Department News

Civil Engineering Seniors Learn, Bond on Pittsburgh Trip

Nine seniors from the Reiners Department of Civil and Environmental Engineering traveled to Pittsburgh, Pennsylvania, March 16-18, to learn about the types of projects they may be involved with after graduation.

William Barry, Ph.D., dean of the Allen School of Engineering and Computing, and Gary Greene, Ph.D., department chair, took the students to locations such as the Emsworth Lock and Dam and Fort Pitt Tunnel.

The trip gave the seniors the opportunity to not only see real-life applications of engineering concepts, but to spend time with faculty and fellow students outside of class.

Emsworth Lock and Dam

The Emsworth Lock and Dam,



Pictured left to right: (front) Dr. Bill Barry, Alex Mullet, Sophie Sloneker, Erin Haase, Lia Vawter. (back): Ben Toole, Aspen Fisher, John Nash, Austin Zank, Dr. Gary Greene, Jacob Barkey.

located west of downtown Pittsburgh, is operated by the US Army Corps of Engineers. The Corps maintains a navigable channel upstream on the Ohio, Allegheny and Monongahela rivers.

Several students operated the lock gates, which allow ships to enter the lock. While the Trine group was visiting, an empty coal barge came through the lock, allowing the students to observe the entire process of lock operation up close.

"The man who gave the lock and dam tour was excited to share all that he knew about

Jacob Barkey. "I learned a lot about the how lock and dam systems maintain navigable waters and all the behind-the-scenes work required to keep a major tunnel operational."

"The behind-the-scenes look at the technology and equipment used to maintain the normal flow of commerce along the Ohio River was a once-in-a-lifetime experience," agreed senior John Nash.

Fort Pitt Tunnel

At the Fort Pitt Tunnel, the group saw the tunnel's power and computer systems, the eight enormous suction fans that pull exhaust fumes out of the tunnel,

Department News

and the main control room.

The control room monitors traffic on roads near the tunnel as well as many roads around the downtown area. This allows workers to notify emergency response teams if an incident occurs, even before motorists could call 911.

"The most interesting thing about the tunnel was that it was more than just a tunnel," said senior Aspen Fisher. "There is a group of people working there full-time to ensure that all traffic flowing through is traveling safely and, if there is an accident, respond immediately. The lead engineer who gave us the tour was very personable and did a great job explaining the processes and answering questions."

At the end of the tour, the Trine group was able to climb to the roof on the north end of the tunnel, experiencing a panoramic view of Pittsburgh downtown.

"I will never forget looking at the Pittsburgh skyline from the private access area of the tunnel, a view not many people get to experience," Fisher said.

Rail car and bridges

The group also visited the Duquesne Incline, a historical inclined wooden rail car that for over a century has moved people up and down the side of the mountain south of downtown Pittsburgh.

The trip ended with a walk along the waterfront in downtown Pittsburgh to visit four bridges along the Monongahela and Allegheny rivers. The bridges had spans between 400 and 700 feet and were built between the 1920s to the 1980s.

"During the trip, we learned how a great portion of civil engineering relies on the human element, which can react to issues that arise on site," said Nash. "The

human element includes an engineer's problem-solving skills, as that is perhaps the most important characteristic an engineer can possess. Hearing stories of civil engineering projects our professors Drs. Barry and Greene worked on, along with some other truly hilarious anecdotes, allowed me to see that all civil engineers are of the same breed."

"Overall, the experience had a great balance of learning experiences and good social experiences," said Fisher. "While all the tours were amazing and were definitely worth going to Pittsburgh for, the truly great part of the trip was spending time with peers and professors before all of us seniors go our own ways in life."●



Department News

Trine Civil Engineers Win Awards at Indiana-Kentucky Symposium

Twenty-one Trine University civil engineering majors and three faculty took part in the American Society of Civil Engineers (ASCE) Indiana-Kentucky Symposium, with three Trine teams earning awards in competitions.

The event took place April 13-15 at Western Kentucky University in Bowling Green, Kentucky.

The Trine team of Ryan Hoak of Warsaw, Indiana, and Annalise O'Daniel of Indianapolis placed first in the Mystery Design competition.

The contest, which is not revealed until competition starts, required competitors to use an excavator bucket to place an attached ball on increasingly more difficult targets.



Pictured: Annalise O'Daniel and Ryan Hoak .

Grant Winterkorn of Goshen, Ohio, Ben Stoffel of Andrews, Indiana, and Erin Haase of Napoleon, Ohio, took second place in the concrete canoe competition, assisted by rowers Mason Fritch of Butler, Indiana, Lia Vawter of Indianapolis and Sophie Sloneker of Monroe, Ohio.

The ASCE Concrete Canoe Competition allows students to test skills in concrete mix designs and project management by building and racing a canoe made out of concrete.



Pictured left to right: Ben Stoffel, Erin Haase and Grant Winterkorn



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Trine's Sustainable Solutions team, made up of Haase, Hallie Fenimore of Rushville, Indiana, Makenna Sheets of Fort Wayne, Indiana, and Etseoghena Alieme of Franklin, New Jersey, placed third.

The Sustainable Solutions competition challenges students to incorporate sustainable solutions into everyday problems. In this year's competition, students were tasked with revitalizing one downtown block of a fictional city to create a community gathering place and a cohesive, walkable corridor.

"Last year, Trine hosted the ASCE symposium, so this year it was great for the students to just compete without the stress of planning and managing the event," said TJ Murphy, faculty advisor for the Trine ASCE chapter. "The second-place finish in the concrete canoe competition was the highest finish for Trine in my 15 years as advisor. We are all proud of our students and how well they represent the Reiners Department of Civil and Environmental Engineering."

In addition to Murphy, civil

engineering faculty Tim Tyler, Ph.D., and Gary Greene, Ph.D., accompanied the students on the trip.

Other students attending were Bill Kennelly of Chardon, Ohio, Austin Zank of Nashville, Michigan, Aspen Fisher of Ossian, Indiana, John Nash of Channahon, Illinois, Gage Ornduff of Elkhart, Indiana, Evan Holman of Fort Wayne, Indiana, Reece Soel of Avon, Indiana, Aaron Loos of Franklin, Indiana, Chris Parker of Lebanon, Indiana, and Austin Farley of Centerville, Indiana. ●



Department News

Trine Civil Engineers Honored at Annual Conference

Five Trine University civil engineering students were honored at the annual conference for the Indiana Section of the American Society of Civil Engineers, held April 18th in Carmel, Indiana.

Erin Haase of Napoleon, Ohio, and Sophie Sloneker of Monroe, Ohio, won a student project presentation competition sponsored by the Metropolitan Indianapolis Branch of the ASCE.

The competition was open to all ASCE student chapters in the Indiana Section, including schools like Valparaiso, Evansville, Notre Dame, and Rose Hulman. Most students presented their capstone projects, and entries were judged on their presentation skills and the ability to answer questions.

The judges praised the Trine team for citing the design standards used throughout their presentation.

Each student was awarded \$200, and the university received a plaque that travels to the winning school each year.

Haase, Grant Winterkorn of Goshen, Ohio, Bill Kennelly of Char-don, Ohio, and Makenna Sheets of Fort Wayne, Indiana, were recognized for their contributions and dedication to ASCE through their leadership with the Trine's student chapter. Each student received an award and \$100.●



Pictured from left to right: Erin Haase (Trine), Jonathan Pasyk (Metropolitan Indianapolis Branch of ASCE), Sophie Sloneker (Trine).



Pictured left to right: Makenna Sheets, Erin Haase, Bill Kennelly and Grant Winterkorn.

Department News

Trine Inducted 82 into Order of the Engineer

Eighty-two students in Trine University's Allen School of Engineering and Computing were inducted into the Order of the Engineer during the 2022-2023 academic year.

The following Civil Engineering seniors were honored:

Fall 2022:

Arizona Lenski, Merrillville, Indiana

Mariah Rodriguez, Lakewood, California

Ryan Wisman, Bronson, Michigan

Spring 2023:

Noah Ballard, Tipp City, Ohio

Jacob Barkey, Auburn, Indiana

Braydon Cape, Edgerton, Ohio

Hallie Fenimore, Rushville, Indiana

Aspen Fisher, Ossian, Indiana

Riley Garling, Lafayette, Indiana

Erin Haase, Napoleon, Ohio

Dustin Huffer, Clayton, Indiana

Ryan Kafer, Pittsford, Michigan

William Kennelly, Chardon, Ohio

John Nash, Channahon, Illinois

Makenna Sheets, Fort Wayne, Indiana

Sophie Sloneker, Monroe, Ohio

Benjamin Stoffel, Andrews, Indiana

Benjamin Toole, Goshen, Indiana

Lia Vawter, Indianapolis, Indiana

Grant Winterkorn, Goshen, Ohio

Austin Zank, Nashville, Michigan.

The ring ceremony is the public induction of candidates into the Order of the Engineer, a fellowship of engineers who are trained in science and technology and dedicated to the practice, teaching or administration

of their profession.

During the ceremony, engineering students are invited to accept the Obligation of the Engineer and a stainless steel ring is placed on the smallest finger of the working hand. The obligation is a formal statement of an engineer's responsibilities to the public and to the profession. Both the order and the obligation serve to stimulate public recognition by engineers of two basic principles: that the primary purpose of the engineering profession is the protection of the public health, safety and welfare; and that all members of the engineering profession share a common bond.

Trine University conducted its first ring ceremony in November 1978.●

Department News

Order of the Engineer Photos



Pictured left to right: Ryan Wisman, Arizona Lenski, Mariah Rodriguez.



Pictured left to right: Ben Toole, Grant Winterkorn, Ben Stoffel, Ryan Kafer, Dustin Huffer, Alex Mullet, Bill Kennelly, Sophie Sloneker, Lia Vawter, Jacob Barkey, Erin Haase, John Nash, Hallie Fenimore, Aspen Fisher, Makenna Sheets, Austin Zank, Riley Garling, Noah Ballard, Braydon Cape.

Trine Civil Engineers Clean Up CCC Dams at Pokagon

Over the first weekend in April, members of Trine University's student chapter of the American Society of Civil Engineers com-

pleted a service project to clear brush and trees from stone dams at Pokagon State Park constructed by the Civilian Conservation Corps (CCC). The park hopes to feature the dams by making them more visible from the hiking path.

Members of the CCC, which provided jobs during the Great Depression, were stationed at Pokagon between 1934 and 1942 and completed many projects at the park.●



Pictured left to right: T.J. Murphy, assistant professor and ASCE student chapter advisor, Evan Holman, Annalise O'Daniel, Reece Soel, Gage Ornduff, Emma Koch, Thaiphi Austria (standing on dam) and Luis Rodriguez.

Department News

Engineering Design Expo

Featuring projects that provide features such as safety, mobility, convenience and efficiency, Trine University's 21st annual Engineering Design Expo offered members of the public the chance to see the knowledge and skills of Trine University students on display.

Those who attended learned more from Trine's student engineers about the processes they used to create and, in many cases, implement their design projects.

"The seniors within the Allen School of Engineering and Computing worked hard throughout the year on their design projects, with much support from faculty advisors and other staff within the school," said William Barry, Ph.D., dean of the Allen

School of Engineering and Computing. "We're proud and excited they were able to show off to the community all they have accomplished this year."

This year's design projects attracted a record amount of external sponsorship, with industry

Partners contributing more than \$80,000 toward project costs.

Civil and Environmental partners for the Expo included: the American Society of Civil Engineers, City of Angola, Steuben County and Trine University.●



Angola Wastewater Treatment Plant Upgrade – (left to right) Alex Mullet, Adam Stefanelli, Bill Kennelly, Ben Toole.



ASCE Concrete Canoe – (left to right) Ben Stoffel, Grant Winterkorn.

Department News



New Student Design Center – (left to right) John Nash, Aspen Fisher, Austin Zank.

Roundabout at N 200 @ and @ 100 N in Angola – (left to right) Justin Balcer, Colin Nicoski, Noah Ballard.



Traffic Roundabout at Old U.S. 27 and Baker Road – (left to right) Grant Patrick, Ryan Kafer, Dustin Huffer, Riley Garling.

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*Green Space – (left to right)
Erin Haase, Sophie Sloneker.*



*General Residential Building for Master Dorm
Expansion – (left to right) Makenna Sheets, Hal-
lie Fenimore, Lia Vawter.*



*Sidewalk and LID Design – (left to right) Mariah
Rodriguez, Braydon Cape, Ryan Wisman.*

Department News

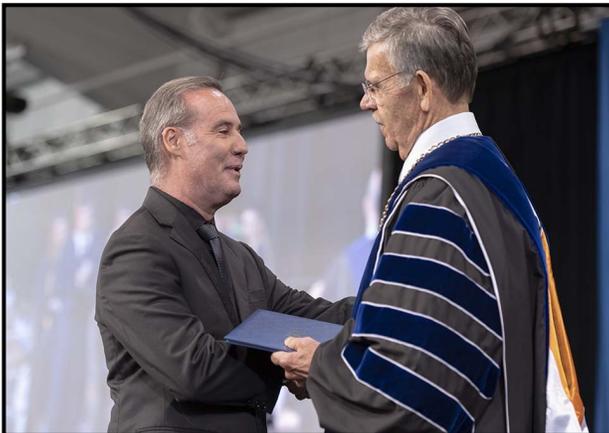
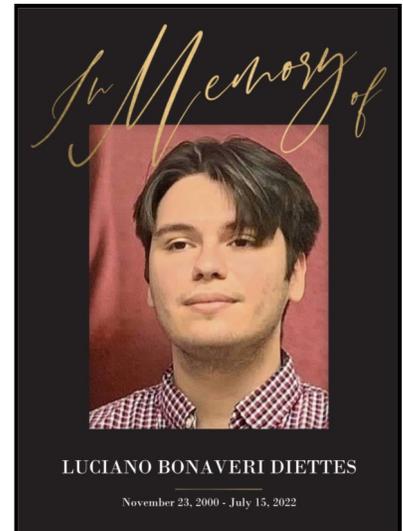


Dorm Expansion – (left to right) Josh Elmore, Avery Fulford, Jacob Barkey, Amer Alsulami.

Spring Graduate Golf and Lunch

On the day before commencement, faculty and graduates enjoyed 9 holes of golf followed by lunch at Club Z. The group was joined by Pablo Bonaveri, father of Luciano Bonaveri -

Diettes, who traveled from Columbia to attend commencement. Luciano would have graduated this spring but was tragically killed in a car accident the summer of 2022.●



Department News

Graduate Celebration

A dinner was held to honor Civil and Environmental Engineering spring graduates on April 28th. Special recognition was given to the following award recipients:



Bill Kennelly



Aspen Fisher

Bill Kennelly, Cecil Hauber Civil Engineering Leadership Award

Aspen Fisher, The Kunti and Satish Goyal Outstanding Civil Engineer Award



John Nash



Grant Winterkorn

John Nash, American Institute of Steel Construction Award

Grant Winterkorn, Hayden ASCE Service Award.●



Pictured left to right: Aspen Fisher, Riley Garling, Austin Zank, Ryan Kafer, Ben Stoffel, Dustin Huffer, Grant Winterkorn, John Nash, Lia Vawter, Adam Stefanelli, Erin Haase, Ben Toole, Alex Mullet, Bill Kennelly, Sophie Sloneker, Jacob Barkey, Colin Nicoski, and Justin Balcer. Not pictured: Noah Ballard, Braydon Cape, Hallie Fenimore, Avery Fulford, Grant Patrick, and Makenna Sheets.

Campus Events

EWB Closes Out Ecuador Project

Since 2017, students of the university's Engineers Without Borders chapter (EWB) have been partnered with the Indianapolis professional chapter on a water distribution improvement project for a community called Comuna Guangaje in Ecuador. The community has a drinking water distribution system that includes spring boxes which are fed by groundwater located in the mountainsides above the community. Once captured, the water is then able to freely flow by gravity to respective homes/buildings within the community. For many years, Comuna Guangaje was struggling with providing enough drinking water to their citizens in their dry season.

In March of 2020, students had traveled to Comuna Guangaje for the implementation of

engineered French Drain systems which increased groundwater flow into the spring boxes. In October 2022, three students named Bill Kennelly (CE), Arizona Lenski (CE), and Madison Ruen (ChemE) went back to Ecuador to monitor and evaluate the immense increase of flowrate into the spring boxes and officially close out the drinking water

project. The students measured flow rates at various locations within the distribution system and performed hydraulic calculations to verify their findings. In addition, they also performed GPS surveying and overall assessment of the community's irrigation catchment and pipelines for the likelihood of opening another project that improves that system.●



Pictured left to right: Bill Kennelly, Madison Ruen and Arizona Lenski.

Alumni News

Brooks Joins Inductees to Trine's Athletics Hall of Fame

Though Trine University's Athletics Hall of Fame ceremony honored, as usual, distinguished former athletes, one member of this year's class was recognized for many accomplishments off the field.

Trine President Earl D. Brooks II, Ph.D., was a surprise Hall of Fame inductee during the annual Touchstone and Homecoming Celebration Dinner on Friday, Sept 30.

Though he never scored a point for the Thunder, Dr. Brooks radically transformed athletics at Trine University as its 16th president. One of the early cornerstones of his presidency was the move from NAIA to NCAA Division III, resulting in Thunder sports becoming the

powerhouse it is today. The move also brought Trine to the MIAA, the nation's oldest athletic conference and one of the most competitive in Division III.

Dr. Brooks also personally championed efforts to provide state-of-the-art facilities for Trine University student-athletes. The successful fundraising campaigns conducted during his presidency have provided facilities including the Keith E. Busse/Steel Dynamics Inc. Athletic and Recreation Center, Fred Zollner Athletic Stadium, SportOne/Parkview Softball Field, the Ryan Tennis Center, Thunder Ice Arena and the MTI Center.

In addition to Dr. Brooks, the university added former Trine athlete Tyler Bourdo, Civil Engineering graduate, to the Hall of Fame.

Tyler Bourdo

A 2015 Trine University graduate, Bourdo was a four-time NCAA All-American as a track and field athlete; two in the indoor season and two in outdoor. He competed six times at the NCAA National Championships in his time at Trine, including a career-best fifth-place finish in the 400-meter dash at the 2014 event.

At the conference level, Bourdo won eight MIAA event championships, including three in the 400-meter dash, three in the 4x400-meter relay and one title each in the 200-meter dash and 4x100-meter relay. He was named MIAA Most Valuable Track Athlete twice for the outdoor season and made the All-MIAA team three times.

He holds six school records: the 400-meter dash, 600-meter dash and 4x400-meter relay in

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indoor as well as the 400-meter dash, 4x100-meter relay and 4x400-meter relay in the outdoor season.

Today, Bourdo works for Mitten State Engineering as a project engineer and coaches high school varsity track and field. He resides in Denton, Michigan.

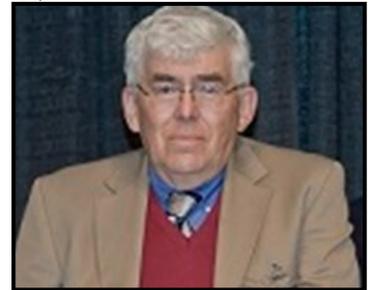


Pictured left to right: Dr. Earl Brooks, Tyler Bourdo, Matt Land.

Congratulations!

The Trine University Athletics Hall of Fame honors student-athletes and team representatives who have set a high standard for Trine intercollegiate men's and women's sports in the National Association of Intercollegiate Athletics (NAIA) and National Collegiate Athletics Association (NCAA).•

Ed Gerecke, 1970 civil engineering alumnus, received the following awards: Basinski-Wohlens Distinguished Service Award - The Erie/Niagara Chapter of the New York State Society of Professional Engineers (NSPE-NY), Meritorious Service Award - The New York State Society of Professional Engineers (NYSSPE) .•



Commencement 2023—Civil Engineering

Pictured left to right: Grant Winterkorn, Erin Haase, Makenna Sheets, Jacob Barkey, Lia Vawter, Sophie Sloneker, Hallie Fenimore.



2022–2023 Graduates

Fall 2022



Amer Alsulami

Josh Elmore

Arizona Lenski

Mariah Rodriguez

Ryan Wisman

Spring 2023



Justin Balcer

Noah Ballard

Jacob Barkey

Braydon Cape

Hallie Fenimore

Aspen Fisher



Avery Fulford

Riley Garling

Erin Haase

Dustin Huffer

Ryan Kafer

Bill Kennelly



Alex Mullet

John Nash

Colin Nicoski

Grant Patrick

Makenna Sheets

Sophie Sloneker



Adam Stefanelli

Ben Stoffel

Ben Toole

Lia Vawter

Grant Winterkorn

Austin Zank