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UPCOMING EVENTS

Fall ISU Commencement	Dec 14, 2019
Spring CM Career Fair	Feb 13, 2020
CM Golf Outing	Apr 26, 2020
Spring ISU Commencement	May 11, 2020

PUBLISHING INFORMATION

Published by the Construction Management Program in the Department of Technology at Illinois State University

- Technology Department website: <https://tec.illinoisstate.edu/>
- CM Program Facebook page: <https://www.facebook.com/ISUCM/>

CM EVENTS

CAREER FAIR

The two CM annual career fairs (Fall 2108 and spring 2019) were held in the Bone Student Center. The fair had a great turn out with a total of 45 Employers in attendance. More than 180, primarily CM students with the addition of a few safety, renewable energy and sustainability, engineering major students attended these events in search of internship and permanent job opportunities.

In addition to the career fairs held in the afternoon, employers (8 companies for each fair) spoke about their projects, job opportunities, and career paths in their companies in the Industry Forum session in the morning.



GOLF OUTING

The 2019 CM golf outing was held at the El Paso country club on April 26, 2019. It was another well attended golf outing with 23 contractors & industry partners.



STUDENT ACTIVITIES

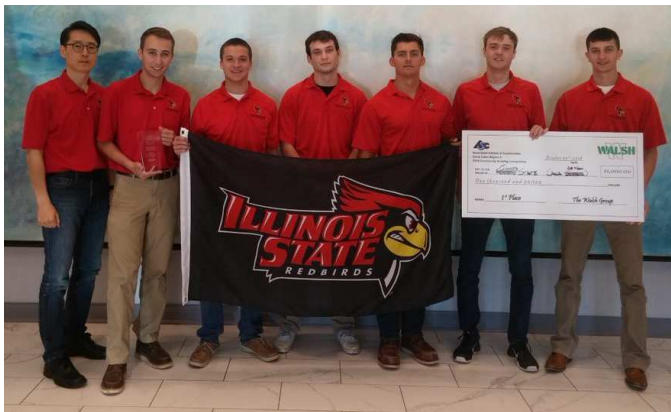
COMPETITIONS

Associated Schools of Construction (ASC)

Four Construction Management student teams competed in the 2018 Associated Schools of Construction Region III Student Competition in Downers Grove, Illinois on October 17-20, 2018.

Commercial Team

The Commercial Construction team consisted of Logan Thompson-Team Captain, Kevin O'Riley, Ryan Long, Jason Love, Ben Strobel, Bobby Fortier, and Dr. Euysup Shim (faculty coach). The Commercial Team's project involved the construction of an air traffic control tower located on a military installation in Washington that was constructed by Walsh Construction, the competition sponsor. The team competed with other teams from Illinois, Michigan, Kentucky, Wisconsin, and Ohio. The Illinois State Commercial Team placed first in two consecutive years.



"The competition itself was an opportunity I will never forget. Being able to represent Illinois State University for this event made me that much more excited to participate."

-Courtney Linn

Design-Build Team

The 2018 ASC Design-Build competition took place in Downers Grove, IL and was hosted by McCarthy Construction. The team members included; Anthony Jackson, Brett Becker, Abby Bowen, Meaghan Daiber, Ethan Danks, and Luke Nyenhuis. This project included design and con-

struction of a new building to house an emergency department, diagnostics/imaging center, twenty-seven primary/specialty care physicians, physical therapy, and a pharmacy. The competition included a fourteen hour lock-in over which all documents were prepared and submitted by 9 PM.



Pre-Construction Team

The pre-construction team consisted of Aaron Fish, Team Captain, Michael May, Courtney Linn, Madeline Kladar, Travis Woolen, and Dylan Hoskins. The team worked on a project that required the redesign & re construction of the 40,000 square foot Moxy Hotel in downtown Chicago.



"Having the opportunity to be selected for the ASC pre-construction team two years in a row and to be the leader this year was a great learning experience."

- Aaron Fish

STUDENT ACTIVITIES

Project Solutions Team

For the first time, construction management students participated in the project solutions competition. The project solutions competition team consisted of Sam LaScala, Team Captain, Joe Fundell, Zach Simmons, Joseph Williams, Vincent Cecchin and Thomas Bennett. The project solutions Competition was hosted by Morteson Construction and ProCore. The team was challenged with estimating and scheduling the construction of a lower level hospital area and the construction of four-story elevator shaft . This included identifying risks associated with the project and the solutions to these risks.

“This competition provides a great way for students get a motivated to apply their skills,”

- Samuel LaScala



American Concrete Institute (ACI) Competition

The Illinois State ACI competition team, consisting of Ryan Long- team captain, Zack Swanson, Jason Love, Vince Cecchin, Mike Boffa, and Dr. Pranshoo Solanki (faculty coach), participated in the ACI Eco-Concrete competition in Quebec City, Canada, on March 25-28, 2019. The competition was about development of an innovative concrete mixture with the lowest possible environmental impacts while maintaining optimal mechanical and durability performance.



“Participating in the Eco-Concrete Student Competition was a valuable experience and one of the highlights of my academic career.

- Jason Love

NECA Competition

CM students (Brett Becker, Ben Strobel, and Sergiu Tuluca, a double major in Construction Management and Renewable Energy) competed in the NECA Green Energy Challenge competition. Gaby Harpel, an Interior Design major, was also apart of the team. The NECA Green Energy Challenge involves students working in the community to improve the energy efficiency of buildings. The team worked with Emeritus Prof. Hank Campbell in determining the energy costs and upgrades for the *Dreams are Possible Training Center*, a former grocery store in Bloomington, IL.



Exterior Elevation – *Dreams Are Possible*

STUDENT ACTIVITIES

MCAA

Students attended the Great Futures forum in Anaheim, CA in Fall 2018 where they received their competition project – *“the mechanical design and construction costs of a commercial kitchen for University of Indiana Memorial Stadium addition”*. The group finished 13th out of the 37 teams that submitted a proposal nationally. CM students Justin Johnson, Kevin Carder, Nick Schnepfer and David Wilhold attended the event. Students were also able to attend a career fair, president’s meeting, tour Southland a mechanical suppliers manufacturing facility and be involved in a young professional’s panel discussion.

In Spring 2019, CM students Kate Mesenbring, Justin Johnson, Kevin Carder and Carra Scurto attended the MCAA National Convention in Phoenix, AZ.



2018 and 2019 MCAA events

Habitant for Humanity

CMSA members participated in a Demo project, Joint Ventured by CMSA and Habitat for Humanity. The project involved remodeling a house that was badly damaged and had a rotted enclosed first deck. The extent of damage was too far into the foundation itself to keep any part of it so the students had to rework the demo. Damage included termite damage, water damage, sinking foundation, and non pressure treated lumber used on exterior sections and masonry contact. Students had the opportunity of learning about proper and safe demo work in order to successfully prepare for the rebuilding a new front deck. The project demonstrated the consequences that can result from construction errors and the importance of understanding every aspect of the construction field.



“Construction Management students applied their knowledge this year by doing hands on construction with Habitat for Humanity through CMSA.”

- Rocco Cosentino

STUDENT ACTIVITIES

FIELD TRIPS/ SITE TOUR

CM students visited several construction sites or facilities for either their class or in general in 2018-2019 to extend their learning in classroom. The sites for the field trips include construction project sites, and local labor union training center.



FCL-Wiskey– Plainfield



Mortenson's Prefab Facility, Minooka



150 operators union training facility, Wilmington



Bear, Clark, and Bulley & Andrews sites, Chicago



Pepper Construction site, Chicago



Power Construction site, Chicago

STUDENT ACTIVITIES

CMSA Events



1st place in 2018 SU Homecoming Float



Design-Build Challenge with Elementary Students



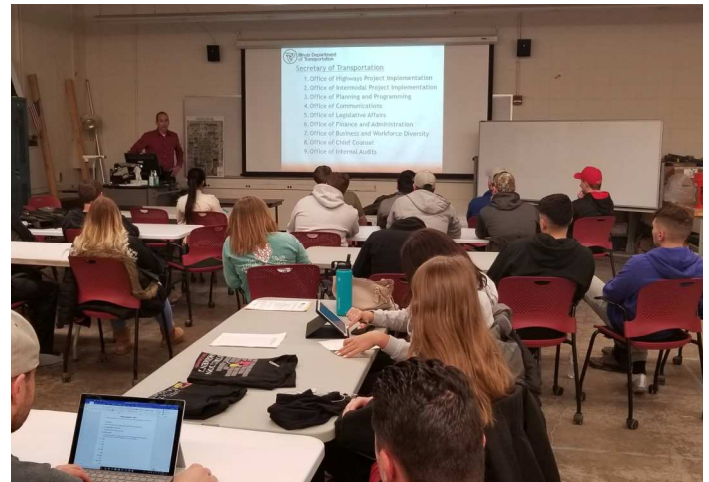
Haley Kraus, Calvin Klarkowski ('11), and Jorge Hernandez ('13), from Power Construction



Grant Wingle ('07) and Mike Gloria ('09) from Power Construction speaking on construction safety



Ben Steel ('11) from Plote Construction



Justin Mann from IDOT speaking on IDOT operations and future construction technologies

FEATURED STUDENT LEADERS

CMSA President

Kevin Carder, President of CMSA, is a Senior Construction Management Student at ISU. He began working in construction during his Sophomore year of high school as a Laborer, sparking a passion for the industry. He began his time at ISU in the Fall of 2016, immediately becoming involved in the many extracurricular activities offered by the major. Kevin has served as the President of the MCAA Student Chapter at ISU for the last two years.



CMSA offers education and experience outside of the classroom to all its members that plan on going into the Construction Management field including CM, Safety, Interior Design, and Engineering Technology majors. We host guest speakers, usually ISU Alum, and conduct job site visits hosted by local and national General Contracting companies, to learn real life issues and scenarios that they have run into and how they overcame each obstacle. Although we are Construction Managers and not laborers, we also take pride in visiting our local Union Halls such as the 150 Operators Union, to learn about the training and education they receive before working on the job sites. This also gains a mutual respect between our members and the union workers that is just as important as any other aspect when working together on site. Also, we allow the opportunity for our members to go even further beyond by participating in Construction based volunteer work such as Habitat for Humanity, tutoring fellow CM students, and an annual care

package sent to our Veterans deployed overseas.

This year, CMSA plans to continue bringing guest speakers from across the industry to present to our members. Jobsite tours will also be scheduled to allow our members to experience how an active site functions. We are also focusing on increasing our volunteer work in the community of Bloomington-Normal.

NECA President

Brett Becker is the President of the National Electrical Contractors Association (NECA) student chapter at ISU. As President of NECA he has focused largely on the ELECTRI Green Energy Challenge. . Brett's goal for the 2019-2020 school year is to become more involved with the Illinois NECA Chapter. This may involve bringing in speakers to CMSA chapter meetings and going to events throughout the year.



Throughout this year Brett hopes to get more students involved with NECA and the Green Energy Challenge. Involvement within the project allows for students to learn things in detail that there may just not be time for during regular class. By getting more students involved it will allow for the students to widen their base knowledge of design, renewable energy sources, and energy usage.

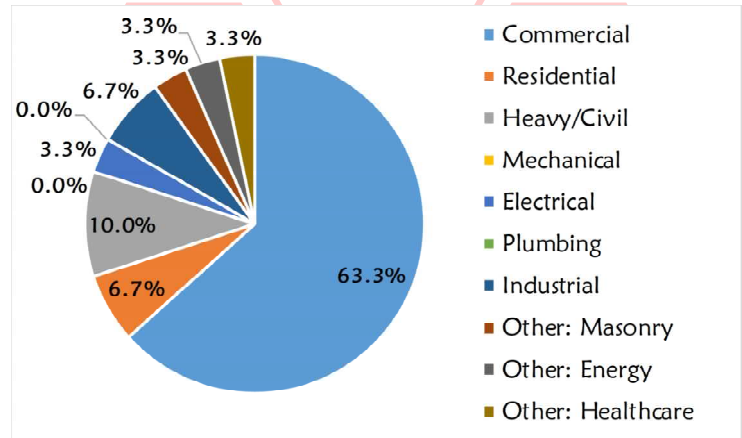
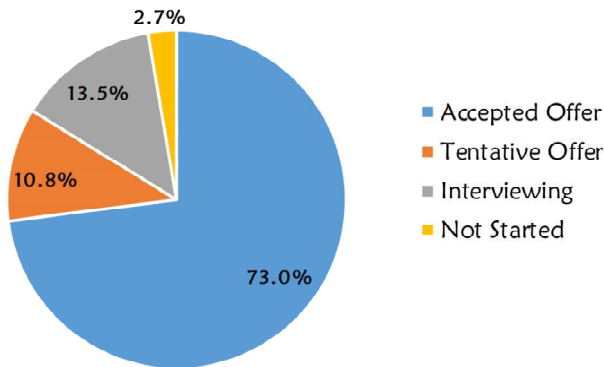


December 2018 Graduates

STUDENT JOB PLACEMENT

Data collected from the Senior Exit Surveys in 2018-19 year

- Job placement rate: **83.8%** (including both “Accepted Offer” and “Tentative Offer” responses)
- 63.33% of the CM students who graduate in 2018-19 got a job in Commercial sector, and 6.67% got a job in Residential sector. 2 CM students were hired in Heavy/Civil sector and 2 other students were placed in Industrial sector.
- Average starting salary: **\$62,451**



Learning-by-doing in CM Courses



Pull-planning Game in Construction Scheduling class



Symons Formwork Installation in Soils & Foundation class



Concrete mix design in Construction Material class



Geogrids presented in Soils & Foundation class

SCHOLARSHIPS

Externally Funded Scholarships

MCA—Chicago Scholarship

Kevin Carder
Benjamin Strobel

Rotary Foundation District
Scholarship

Brady Messman

Departmental Scholarships

Department of Technology
Legacy Scholarship

Vincent Cecchin

Central Illinois Builders'
Industry Advancement
Foundation Scholarship

Jason Love

James D. Loughlin Memorial
Scholarship

Benjamin Strobel

Charles "Ed" Francis Scholarship

Caleb Jacob

Wayne Zook Scholarship

Kate Mesenbring

Robert C. Monninger
Scholarship

Kate Mesenbring

Combined Central Illinois
Construction Industry Fund Scholarship

Michael Boffa

Construction Management
Endowed Scholarship

Ryan Crockett
Nicholas DiVito

New CM Endowed Scholarship

The CM program is very proud of a new scholarship: *Construction Management Endowed Scholarship*. By the CM industry partners' support, the CM program could offer the *CM Endowed Scholarship* for \$2,000 in Fall 2019. This scholarship is open to incoming freshmen admitted to the CM program who have at least a 3.0 high school GPA and an ACT score of 24 or higher. The awardees must have demonstrated leadership and service in high school. The first scholarship winners are Ryan Crockett and Nicholas DiVito. The endowed fund for the scholarship was from the CM industry partnership program in the past years.



Prof. Jacobs, Kate Mesenbring, Ryan Crockett, Benjamin Strobel, Nicholas DiVito, Michael Boffa, Jason Love, Caleb Jacob, and Dr. Shim (from left to right).



December 2018 Graduation Ceremony



Spring 2019 Graduates

2019 Distinguished Alum: Greg Troemel



Greg Troemel is from the north suburb of Grayslake, Illinois and came to Illinois State in the fall of 1980 on a baseball scholarship. Troemel attained a Bachelor of Science in Construction Management in December 1984. In 1985 he was hired by the Building Department for the Town of Normal. For the first fifteen years of his career his role was that of Residential and Commercial Plans Examiner and Building Inspector. In 2000 he was promoted to the Director of Inspections and continues to serve in that capacity. During his 34-year tenure Normal has experienced a robust population growth of 20,000(non-student)residents. Coupled with the resident boom, commercial development prospered with the development of the Diamond Star/Mitsubishi/Rivian auto assembly plant, Menard's, Sam's Club to mention a few.

Troemel's professional development included attaining International Code Council certifications as a Building Plans Examiner and Building Inspector, as well as extensive participation in various state and national code organizations. A noteworthy accomplishment for the Inspection Department is the Insurance Service Office rating that places Normal in the top 8% of all Illinois municipalities operating a building department.

During his career with the Town Troemel has worked to stay connected with the Construction Management program in many ways including; the NAHB Student Chapter activities, the Illinois Protective Officials Conference Student Chapter, Chairing the Wayne H. Zook Scholarship committee, serving as Adjunct Instructor for the TEC322 Building Codes course for the past 13 years, serving as an evaluator for the Capstone 394 presentations, and participating in three successful Construction Management accreditation processes.

During his time at ISU and in 1982, Troemel met his wife of 34 years, Julie Maddux Troemel. Julie is a 1983 ISU alumni and taught school for 20 years in Eureka, Illinois and now works for a custom homebuilder.

Garvin Windell

I am a graduate of the Construction Management (CM) program, Class of 2015. I am currently working in San Jose, California as a Senior Engineer for Holder Construction Company. Directly after graduating, I moved to San Jose to work on a 4.5 million square foot corporate office building, Apple Park. Since the completion of that project in 2018, I have been focused primarily on 40k-50k SF tenant improvement projects in the Silicon Valley.

The CM program provided all the technical skills I needed for a solid foundation to perform successfully in our industry. Technical skills that I use daily such as contract management, scheduling, and quantity take off just to name a few. Although, I feel my most valuable school experiences were not academic. They were all about people – social skills, respect, self-worth, and realizing your own potential. These experiences are directly tied back to the professors and teaching assistants who exemplified these skills on a regular basis through daily curriculum, group projects, and program events. Through this, I realized that I could pursue anything I set my mind to and in that I would be supported by the tools and resources that the Construction Management program has to offer. Of these resources, the Career Fair and subsequent internship programs were two of the most influential to me. Through networking at the Career Fair, I was able to connect with the Nation's top contractors seeking the best talent. I was fortunate enough to secure two internships with Holder that eventually led to a full time offer before I graduated. I will be forever grateful for the foundation that the CM program laid out for me which has enabled me to perform in our industry at the highest level.



FACULTY NEWS

Prof. Randy Jacobs

Randy completed his CTLT training at ISU in the “Give your course a make over” course. The course helped him use the building blocks presented in the course to develop or tweak a CM course to make it their own. Mr. Jacobs concentrated on TEC 394 course to make it more applicable to the program and more task oriented with meaningful assignments. Continuing Procore online training to implement in TEC 223 Field Engineering course, Mr. Jacobs is eager to implement the Samsung tablets in this

Dr. Pranshoo Solanki

Dr. Solanki is currently working on an Environmental Protection Agency (EPA) grant for making construction materials more sustainable. Dr. Solanki and his team received this grant for conducting research on a project titled “Recycled Glass as a Substitute for Portland Cement and Fly Ash in Controlled Low-Strength Material.”

Solanki’s team is exploring partial substitution of cement and fly ash with recycled glass in controlled low-strength material (CLSM). CLSM is a cement-based construction material commonly used for backfilling trenches or other excavations, as well as soil-stabilization. Using fly ash is not economical in many parts of the country, due to distance from coal-fired power plant, the closing of coal-fired plants, and the impaired quality of fly ash.

Solanki noted preliminary results are promising, and show that required flow and strength can be met by replacing cement/fly ash with recycled glass powder.



EPA grant team (from right to left: Dr. Pranshoo Solanki, Mobi Singh, Michael Boffa, Lillian Lantz, Dr. Guang Jin, Dr. Tom Bierma)

course as well as the (2) new total stations that were purchased for the course in the spring.

Dr Haiyan Xie

Dr. Xie received the Associated Schools of Construction (ASC) Outstanding Researcher Award during the 55th Annual ASC International Conference on April 10–13, 2019. This annual award is made to a research faculty member from a four-year ASC member school and based on the member’s quality research and contribution to the dissemination of scholarly work within the ASC community.



Google Satellite View of the Construction Site Showing Overall the Constructed Test Cells (top image), ATLAS accelerated pavement testing (bottom image)

Dr. Solanki collaborated with University of Illinois Urbana Champaign faculty to work on a collaborated Illinois DOT funded research project entitled “Environmental Impacts for Quarry By-product Usage in Pavements” in Fall 2018. Quarry by-products (QB) in size are the residual deposits from production of required grades of aggregates, and are often stockpiled in excess quantities at the quarries. QB pose an environmental and economic challenge as they accumulate in large quantities in landfills or interfere with quarry operations. The primary objective of Dr. Solanki’s research was to evaluate new sustainable applications of QB and/or QB mixed with other marginal, virgin or recycled aggregate materials in pavements. The selected QB applications were evaluated through construction of full-scale pavement test sections utilizing QB in targeted sustainable applications, and testing them with heavy wheel loads through accelerated pavement testing (APT).

INDUSTRY PARTNERSHIP

The Construction Management (CM) program knows experience beyond the classroom is vital to student learning and development. The CM Industry Partnership program was developed to make funding support more effective for all stakeholders to promote excellence and to better serve the construction industry. As recommended the CM industry advisory board/ fund raising committee, levels of CM partnerships and amounts of donation/contribution will be changed from 2019-2020 year as followings:

CM Partner Levels

- Redbird partner: \$4,000 or more
- Diamond partner: \$3,000 or more
- Platinum partner: \$2,000 or more

Contribution amounts for CM events

- CM career fair: \$750
- CM advisory board: \$1,000
- CM golf outing: \$500
- Student competition sponsor \$1,000

The image displays a grid of logos for the 2018-2019 CM Industrial Partners. The logos are organized into several categories:

- Redbird Partners:** Includes logos for Illinois State University Construction Management, Redbird Partners (with a cardinal logo), HOLDER, BEAR CONSTRUCTION, BULLEY & ANDREWS Building Matters®, FCL BUILDERS, and MECHANICAL CONTRACTORS ASSOCIATION OF CHICAGO (MCA).
- Diamond Partners:** Includes FHP SNN, NECA ILLINOIS CHAPTER, RIVER CITY CONSTRUCTION, HASKELL, and WESTERN Construction Group.
- Platinum Partners:** Includes HD Plumbing & Heating, Inc., PCG PERFORMANCE CONTRACTING GROUP, Stark EXCAVATING, INC., and WT WHITING-TURNER.
- Gold Partners:** Includes BUILTECH, BUSHMAN CONSTRUCTION MANAGEMENT, TECTA AMERICA, CATALYST CONSTRUCTION, INC., WEIS builders, CLUNE Construction Company, D-R-HORTON America's Builder, and SUMMIT DESIGN + BUILD.
- Silver Partners:** A large group of smaller logos including Aerotek, All American Exterior Solutions, alston CONSTRUCTION, AMERICAN BUILDINGS, BACON & VAN BUSKIRK, Cityscape, CLARION, CONNELY ELECTRIC, CORE, CURRAN, CLARK CONSTRUCTION, Denk Roche, ELEVATED CONSTRUCTION, FEMORAN, FOCUS, FQC, GRAYCOR, SUPPLY CONSTRUCTION & INDUSTRIAL WHITE CAP, INTERNATIONAL CONTRACTORS, J.C. ANDERSON, INC., JWI, J.A. Watts, Inc., MI HOMES Move Up, Jsec, McHUGH, MEADE, MICHELS, JOSEPH J. HENDERSON & SON, INC., P.J. HOERR, NIC, THE Resicom GROUP, snc, Turner, GREAT PLAINS LECET, JUNLAU, K-FIVE, MILORD COMPANY, POWER, WE-O'NEIL, Wight, WALSH, McCauley, Pepper, RABINE GROUP, and webber.

2018-2019 CM Industrial Partners

**If paying by check, make payable to Illinois State University w/CM Advancement Fund in the memo section and mail to Department of Technology, ATTN: Elizabeth Gerrad, Campus Box 5100, Normal, IL 61790-5100.

For inquiries contact Randy Jacobs, Instructional Assistant Professor and Professional Practice Coordinator, or Euysup Shim, Associate Professor and CM Program Coordinator.

https://forms.illinoisstate.edu/forms/construction_management_partnership