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# ANNUAL REPORT

## 2017-18

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# INTRODUCTION FROM THE EXECUTIVE DIRECTOR



IN FISCAL YEAR 2017-2018, the National Steering Committee (NSC) had another highly successful year in its efforts to advance the Concrete Industry Management

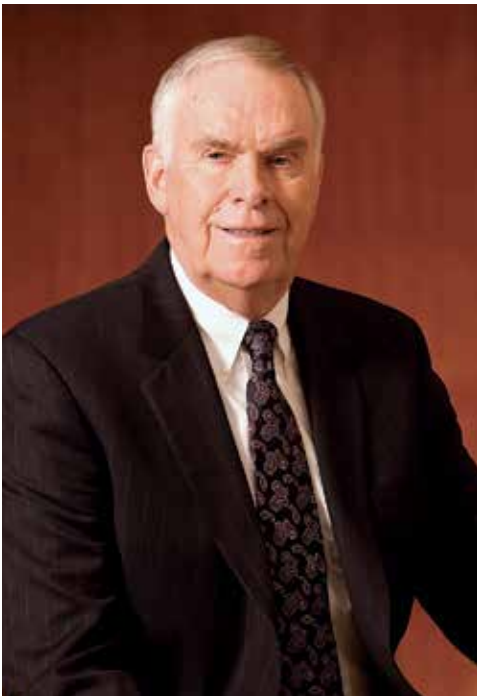
(CIM) program. We achieved record revenues, lead by the World of Concrete (WOC) auction. These milestones will be highlighted in both the Auction Committee and financial sections of this report. Reading this annual report, you will learn of all the activities and accomplishments of the various NSC committees and find out how they are actively executing the NSC's mission of providing oversight, direction, funding and advancement to the CIM program. Each of the NSC committees are chaired by industry professionals uniquely qualified to lead

their specific committees. In addition to their chairmen, the committees are comprised of representatives from many aspects of the concrete industry and, in some instances, members of the academic community from our program universities. The committees ultimately report to the NSC's Board of Directors, whose members are actively engaged in many of the NSC's committees, specifically the Long Range Planning (LRP) committee. We are very fortunate to have many industry executive-level leaders who are willing to devote their time and talent to advance the NSC's mission. As you read through the various committee reports, you will

see all of the support the NSC receives from many of our concrete industry associations, as well as those industry-related entities that are key to our success in our fundraising efforts, especially the WOC auction. The NSC would not be succeeding in advancing the concrete industry by degrees without their support.

In this report, you will also learn how each of our program universities are successfully educating students in this unique concrete industry experience. The students of today are receiving a matchless education that is steeped in extensive exposure to the many facets of the concrete industry. In addition to receiving broad exposure to all aspects of the concrete and related industries, the business minor that is a program requirement arms graduates with skills that in time, will help them contribute to the success of their employer and the overall professionalism of the concrete industry.

The foundation for the success of the CIM program is dependent on the partnership that the NSC has with each program's local concrete industry Patrons group and program university. The NSC's focus is on the broader aspects of advancing the overall CIM program through oversight, collaborative efforts and funding that provides for a consistent level of excellence with all graduates. Each local Patrons group similarly directs their focus and resources on advancing their individual program and their program university. Much of the NSC's direction through its committees and Board of Directors is a culmination of collective input from both the local Patrons and program universities. Likewise, the NSC provides input to both the Patrons and program universities. I am pleased to report that this matchless, three-pronged partnership is stronger than ever and has proven to be a successful collaboration of national and local industry as well as academia in developing and advancing a four-year degree program unique to the concrete industry.





## INTRODUCTION FROM THE EXECUTIVE DIRECTOR

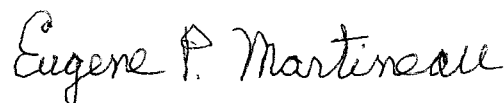
Currently, every graduate that actively pursues employment in the industry is guaranteed a job. In fact, many of our graduates have multiple job offers upon graduation. Consequently, there are job openings for CIM graduates that employers must look elsewhere to fill. With the concrete industry fully recovered to pre-recession levels, the NSC has been acutely aware of this growing discrepancy between the number of annual CIM graduates and the demand for them. In collaboration with the local Patrons groups, we have significantly increased our financial aid to recruit new students through scholarships to help correct this imbalance. However, there is still more to be done. Early in this fiscal year, we convened a two-day LRP committee meeting and student recruitment was one of the key agenda topics. One recommendation from the LRP committee was to create a task force within the NSC whose charter is development of additional tools to increase student recruitment. In reading this year's report, you will learn of some of their initial plans to address the issue. While there is more that the NSC can do on the national front, we will coordinate all activities with the local Patrons and the program universities, since the greatest opportunity to recruit students lies at the local and regional level.

While the concrete industry has, in general, been supportive of the efforts of the NSC and has been willing to contribute financially to its progress, the actual work of the NSC has been left to a small group of very dedicated individuals. With the growth of CIM and the growing number of both opportunities and challenges that exists, a broader representation on the NSC is needed from the concrete

industry to continue to advance the program. Therefore, to address this issue, a membership committee was formed late in the previous fiscal year. During this year's LRP meeting, NSC membership was a key agenda item. As you read this report, you will see that the committee has begun the process of gaining commitments from a target list of companies and industry associations and foundations that fit the description of those that should be represented on the NSC. While this process is still developing, there has already been significant success. Many of the targeted companies certainly understand the importance of the NSC's role in sustaining a successful CIM program as they have benefitted by employing a significant number of CIM graduates. Knowing our industry as I do, I believe it is more a case of not being aggressively recruited, rather than a willingness to serve. We believe by expanding the NSC, it will greatly assist in the overall growth of the CIM program. A requirement of membership in the NSC includes the entity's participation in all Patrons groups in regions where they are established. From past experience, we know that expansion of the local Patrons will greatly assist the program universities student recruitment efforts, as well as increase support of the local programs.

There are many highlights and new milestones achieved that are captured in this year's report, from both the NSC's committees and from each program university. Please take the time to review the report in its entirety so that you have a true understanding of all that is being accomplished by this one-of-a-kind concrete industry specific program.

Sincerely,



**Eugene Martineau**

Executive Director, CIM National Steering Committee

## MESSAGE FROM THE CHAIRMAN OF THE BOARD



THE 23<sup>RD</sup> YEAR of the Concrete Industry Management Program has been another outstanding year of accomplishments! As more and more graduates take on leadership roles in our industry, it highlights the importance of the program. Please share this annual report with those who might be interested in a career in the concrete industry.

The success of the program is a result of the outstanding leadership at our schools, the universities, the faculty, the Patrons groups, association donors, individual donors and the National Steering Committee (NSC). A special thanks to Gene Martineau who had the vision to start the program back in the 90's.

Our enrollment will continue to grow with the addition of a full time CIM recruiter at Texas State and the outstanding job that Amanda Muller is doing at Chico State.

Our growth is not only in students, but also in facilities. The Rogers Group has finalized a multi-year financial commitment toward the construction of a new facility to house the School of Concrete and Construction Management at Middle Tennessee State University (MTSU).

The annual CIM Auction, held in conjunction with the World of Concrete, set an all-time record with sales exceeding \$1 million. The credit again goes to Mike Philipps and his team for all the hard work put toward this effort. The auction was aided by an additional mixer truck donation this year. The auction is the primary fundraiser for the CIM program and goes toward supporting the individual universities and scholarships for students.

My sincere gratitude goes to each of the committee chairs for their tireless efforts in supporting the program;

Education – Rex Cottle (retired). Rex and his team review strategic plans and monitor the curriculums, objectives and outcomes. They also communicate best practices between the four universities.

Finance – Nicole Maher (National Ready Mixed Concrete Association). Nicole is the backbone of the NSC and provides leadership in managing the financial assets of the committee.

Long Range Planning – Alan Nedza (retired). This committee provides the path of the program for future growth and expansion.

Marketing – Brian Gallagher (Graycor). Brian is pretty much a one-man band, providing the marketing and all it entails for the CIM program, including but not limited to: web site design and update, printed material, press releases, auction support materials, booth spaces for conventions and shows.

Membership – Steve Cox (Command Alkon). Steve and his committee have done an outstanding job in their first year of existence by bringing new members to the NSC.

Auction Committee – Mike Philipps (Sandler Training). As mentioned above, Mike and his committee continue to do a yeoman's job on the Auction, the sole fundraiser for the NSC.

In closing, thank you all for your continued support of this most vital aspect of our industry. The most common challenge facing our industry is lack of qualified employees. Most of our industry participants are now relying on the Concrete Industry Management Program to supply these needs.

Sincerely,

**Wally Johnson**

Chairman, CIM National Steering Committee



## EDUCATION COMMITTEE REPORT



**DR. REX COTTLE**

**Chairman**  
Education  
Committee

THE EDUCATION COMMITTEE spent the past year helping improve some of the qualitative and quantitative aspects of the CIM programs. These improvements came out of the Long Range Planning Committee's retreat in the summer of 2017, which focused on enhancing the "CIM brand" for the concrete industry in the United States.

The qualitative aspects consisted of reviewing the CIM curriculum across our programs to ensure students were receiving a contemporary education that covers the broad range of disciplines in the U.S. concrete industry and ensure that each curriculum is comparable at each institution.

Core CIM courses were compared across CIM programs on subject materials covered, relevant student projects and industrial experiences. Best practices by instructors were shared. Business-related courses, including the business and marketing minors, were also reviewed. In essence, the Education Committee continues to implement the NSC vision that all CIM graduates receive a common body of concrete management concepts and experiences that prepare them for careers in concrete and related industries.

To provide conformity to NSC's vision, the CIM program directors and their faculty are developing a report on core student learning outcomes and student competencies for the CIM programs. A draft of this report has been provided to the NSC and to the university Patrons for their comments and suggestions. A final report is expected to be submitted to the Education Committee later this year. If the Education Committee approves, then the report will be forwarded to the NSC for possible adoption.

Another qualitative aspect of the CIM program has been an industrial accreditation by the NSC to monitor each CIM program's compliance in providing the common body of CIM concepts and student experiences. The Education Committee continued to study the possibility of transitioning from our

industrial accreditation process used in the past to a nationally recognized academic accreditation process going forward. If the NSC decides to seek national accreditation, then the report on student learning outcomes and student competencies will be a guiding principle for retaining accreditation in the future.

The quantitative aspects of the CIM programs have focused on growing the number of majors and graduates. With the U.S. economy growing, the demand for CIM graduates has increased. The Education Committee has worked closely with the CIM programs to grow the CIM majors to meet the increased demand for future leaders in concrete and related industries. First, the Education Committee has worked with CIM programs and their Patrons to increase recruiting efforts for traditional and non-traditional students. In particular, CIM programs have increased efforts to attract veterans and community college students, as well as students on our campuses. Patrons have spearheaded these efforts through sharing best practices and creating new approaches to promoting CIM. These efforts require planning and additional resources, such as dedicated recruiters to meet the projected industry needs.

Second, the Education Committee has encouraged the NSC, partnering with Patrons, to provide funding for additional scholarships to attract quality students into our CIM programs. These efforts started two years ago and have been enhanced each year. The Education Committee has monitored the success of the scholarships to grow the number of majors and to retain students in our programs. We are proud how these funds are changing the lives of students by providing them opportunities to receive a quality education and prepare them for a career in the concrete industry.

The Education Committee is excited about the progress our CIM programs are making in improving the quality of our academic programs and in increasing CIM graduates to meet the growing need for future leaders in the concrete industry.

## FINANCE COMMITTEE REPORT

WE ARE PLEASED TO REPORT THAT DURING the 2017-2018 fiscal year, the NSC had record revenues exceeding \$1 million. The \$1,189,208 in revenues was primarily due to the success of our CIM Auction at World of Concrete (WOC) and ongoing industry association and foundation sponsor support.

Of the \$882,000 in total expenses, \$601,000 was distributed to the four participating CIM university programs for program support and scholarships. Of the remaining \$281,000 in expenses, marketing and auction expenses totaled approximately \$131,000 and \$150,000 was for normal operating expenses, which were at or below budget. The total of all expenses for the year was under budget, primarily due to several significant budgeted expenses being canceled. With revenues exceeding budget and expenditures lower than planned for the year, we were able to significantly increase our reserve amount by more than \$300,000.

As previously discussed, the current number of graduates the four CIM program universities are producing does not keep up with the industry's demand. Because of our strong reserve position, the NSC is considering further program expansion in parts of the country that do not presently have a CIM program university in their region. In addition, the NSC can continue to fund and possibly increase the

scholarship program that we began several years ago. To date, that program has been successful in bringing more students into the CIM program.

In the second half of this past fiscal year, Middle Tennessee State University (MTSU) announced that they would once again pursue state approval and funding for a new building to house the concrete and construction management departments. To be successful in convincing the state to fund such a project, the university needs to show financial support for a portion of the total cost. The local Patrons who first visualized the idea for such a building have been working to that end for quite a few years. Because of their efforts, they have raised \$1 million of what is required. The Patrons and the university have continued to work at securing the remainder of the necessary pledged funds. Because of the NSC's current reserve position and recognizing what such a building would do for the overall prominence CIM, the NSC Board approved a pledge of \$100,000 per year for five years to the MTSU building fund.

Who would have believed that 23 years ago, when the CIM program was first envisioned, that a major university would be trying to construct a \$40 million building with concrete management as the lead name on the building! This is another testament to the fact that CIM is advancing the concrete industry by degrees.



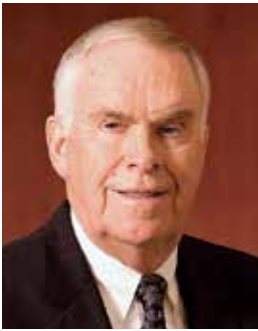
**NICOLE  
MAHER**

**Chairman**  
*Finance Committee*

**The following are financial highlights for 2017-2018 fiscal year ending June 30, 2018:**

	BUDGET	ACTUAL
Total Revenues	\$935,700	\$1,189,288
Total Expenses	\$985,980	\$882,003
Increase/Decrease in Cash	\$29,720	\$307,285
Equity Value – June 30, 2017		\$1,765,412
Equity Value – June 30, 2018		\$2,072,617

## LONG-RANGE PLANNING COMMITTEE REPORT



**EUGENE  
MARTINEAU**

*Long-Range  
Planning  
Committee*

THE LONG-RANGE PLANNING (LRP) committee of the NSC met in Denver, CO during July 2017 for a two-day review and update session of the strategic five-year plan. This meeting was attended by an overwhelming majority of the NSC's Board of Directors. The long-range planning vision and mission statements were reviewed and updated as well as the primary goals and their action plans.

The following are the six primary goals of the NSC:

**Goal 1:** Determine the emerging market needs for Concrete Industry Management graduates nationally, regionally and internationally and ensure the network of institutions is sufficient to meet those needs. It has become increasingly evident that the number of CIM graduates currently being produced does not fully meet the industry's demand. A recruitment task force was established to help our program universities produce more graduates. One key element of successful student recruitment is having a full-time recruiter for every program university that can work in conjunction with the local Patrons and the NSC.

**Goal 2:** Preserve and protect the value of the CIM brand. Ensuring that there is consistency and continuous improvement between all programs is the primary responsibility of the NSC's Education Committee. During the LRP meeting, there was significant discussion regarding the Education Committee's work updating the second evolution of the accreditation process. In conjunction with the LRP meeting, a curriculum review session was organized. This session was attended by all program directors, faculty and some department heads from participating universities.

**Goal 3:** Determine the scope and outreach of the CIM program. The LRP committee was updated on discussions that have taken place with various leading regional companies in the Midwestern United States where there currently is no CIM program university. While these discussions show promise, they are still in the preliminary stage.

**Goal 4:** Promote the use of the CIM university network to conduct coordinated research that benefits the concrete industry. The LRP committee will seek to coordinate research efforts with all CIM universities and industry partners.

**Goal 5:** Determine the appropriate allocation of NSC funds in support of the CIM program. There has been considerable discussion regarding the NSC's role in continuing to fund CIM program universities. The committee focused on how to preserve and grow the major source of revenue for the NSC, the annual auction at World of Concrete. The Auction Committee's update in this report will indicate how some of the LRP auction-focused initiatives helped us reach record levels of revenues from the 2018 auction.

**Goal 6:** Determine the long-term role and leadership succession of the NSC. To continue providing oversight, funding and direction of the CIM program, the LRP committee focused attention on the membership and succession of the NSC leadership and Board of Directors. A Membership Committee was formed and will focus on assisting the local Patrons groups growing their membership. Learn more about the actions of the Membership Committee has taken in their section of this report.

In addition, the LRP committee discussed and developed various action steps including committee membership, target companies and industry organizations, and the committee will develop supporting materials to be used to recruit membership. There also was significant discussion regarding program expansion, board size, vacancies and leadership, standing committees chairs and membership, administrative support, and executive director succession.

Because of the work of the LRP committee, the NSC has a dynamic blueprint to guide it so we can continue to successfully execute its vision and mission and *advance the concrete industry by degrees.*



# MARKETING COMMITTEE REPORT

**CREATING AND BUILDING BRAND** awareness, promoting the CIM programs, and coordinating the annual CIM Auction are the primary focus areas for the Marketing Committee. Our key goals were directed at helping educate prospective students and influencers about educational and career opportunities in the concrete industry. Our integrated marketing approach includes:

**Advertising:** The Marketing Committee managed advertising programs with Concrete InFocus and Construction Executive magazines. Our efforts included a combination of print, digital and content marketing. These advertising initiatives helped us gain valuable exposure to the entire construction industry throughout the year.

**Association and Patrons' Group Support:** We have helped develop materials and information for our associations and Patrons' groups to share our messages.

**Auction Support:** The 2018 CIM Auction was the best ever in terms of results. The CIM Auction Committee was blessed with a second ready mix truck. The committee was able to promote both trucks through a series of videos, graphics and articles. The committee remains an instrumental part of the annual CIM Auction. We managed such activities, as launching an auction item solicitation tool, creating press releases, distributing promotional collateral, placing advertisements and deploying web marketing.

**Collateral and Promotional Materials:** The committee produced promotional materials to support the CIM brand, including brochures, graphics and other materials. The committee also produces the Annual Report and Executive Summary, developed to inform, educate and update stakeholders on national and institutional activities.

**Digital Media:** Our website continues to grow in term of content, traffic, and engagement. The

website is built on a content management system and has a responsive design. Our digital media efforts have focused on content marketing and enhanced social media efforts.

**Events and Trade Shows:** CIM had exposure at several events in 2017-2018, including World of Concrete, the American School Counselors Conference, NRMCA's ConcreteWorks, ACI's convention, ICRI's annual meeting and several other events.

**Graphics:** The way people consume information is changing dramatically. The CIM Marketing Committee has been focused on using more graphics and visuals to promote the program. These engaging graphics have been used in social media, digital marketing and other efforts.

**Public Relations:** One of our key strategies to promote CIM is public relations. The committee continues to publish the CIM e-news six times per year, reaching more than 3,000 people with each edition. Additionally, we work with the concrete industry trade associations to disseminate our message. For the past several years, CIM has been working with Advancing Organizational Excellence (AOE) on a proactive public relations campaign that has resulted in the distribution of nine press releases and placement of more than 45 articles in industry publications, such as Concrete Equipment Guide, Concrete Products, Concrete Décor, Heavy Equipment Guide and Rental Equipment. Online coverage included Equipment Today Online, Heavy Equipment Guide Online, Concrete Products Online and many others.

**Video Production:** We developed and produced several videos for the 2018 CIM auction that helped promote our "Call for Auction Donations," the two ready mix trucks, specific items that were donated and the auction itself. The CIM Marketing Committee has also provided several updates to the CIM YouTube channel.



**BRIAN  
GALLAGHER**  
*Chairman  
Marketing  
Committee*



## AUCTION COMMITTEE REPORT



**MICHAEL  
PHILIPPS**

**Chairman**  
*Auction Committee*

THE 2018 WORLD OF CONCRETE (WOC) Auction, held in conjunction with World of Concrete, was our best ever! The NSC for CIM raised more than \$1.1 million in gross revenue at the annual auction held on Wednesday, Jan. 24, 2018. The results of this auction are indicative of the high value the concrete industry places on the CIM program. We had a record in terms of the value of donated items and attendees at the auction which helped make this event a tremendous success.

The signature item was a Mack Granite® Axle Back model truck mounted with a McNeilus 10.5-cubic-yard M77 paver mixer, donated by Mack Trucks, Inc. and McNeilus Co., a Division of Oshkosh Truck. A key reason for the record revenue was the fact we had a second ready mix truck in the auction. A 2018 T880S bridge formula truck with an 11-yard bridge formula rear discharge BridgeKing mixer was generously donated by Con-Tech Manufacturing, Inc. and Kenworth and Kenworth of Central Florida.

In addition to the live auction, a silent auction was also held and this year, we had record proceeds. Auction items included cement, concrete saws, drills, mixers, vibrators, safety equipment, screeds, fiber transport systems, dust collectors, decorative concrete tools, water meters, pumps, generators, training sessions, reference books, laptop computers, sports travel packages and golf and vacation travel packages.

Achieving these results could not happen without the commitment, passion and dedication from the CIM Auction Committee. More than 40 industry professionals worked together to solicit items and promote the event. CIM program universities are the primary beneficiaries, as the CIM Auction has increasingly become the major source of NSC funding.

Once the 2018 auction was completed, the committee was hard at work on the 2019 auction. The World of Concrete, Informa and Ritchie Bros. Auctioneers have

been tremendous partners for CIM. Without their commitment and support, the auction would not be possible. All promotion for WOC, both leading up to the event and at the convention center, highlight and advertise the auction. Ritchie Bros. has provided the NSC with their expertise in both promoting and being on site conducting the auction. Through Ritchie Bros., we are able to include online participation for those who are not able to attend the auction. We are pleased to note that a significant amount of the live auction proceeds come from online bidders, a percentage that continues to increase each year.



Again this year, NSC partnered with GiveSmart — a user-friendly bidding technology service providing customized auction and event solutions primarily for nonprofit organizations. Participants who were not able to attend the silent auction were able to bid online.

Many of the leading suppliers to the concrete industry are repeat donors. The ever-expanding number of auction items made available to the committee for either the live or silent auctions included such high-profile items as a ready-mix truck donated by Mack Trucks, a truck-mounted mixer donated by McNeilus and a concrete line pulling/placing machine donated by Somero Enterprises. Other donated items include cement and fly ash and equipment used in the production of concrete or in concrete construction. This ensures that the auction contains items that are of interest to the thousands of attendees at WOC. In addition, there were many exciting sports travel packages.

## MEMBERSHIP COMMITTEE REPORT

THE MEMBERSHIP COMMITTEE is newly created and charged with recruiting companies and associations from the concrete industry to serve on the NSC. To be successful in our endeavors, it is critical for the committee to energize the companies that benefit from the talents of Concrete Industry Management graduates.

While many companies have hired the talented graduates from our four outstanding universities, the 20 listed below have hired the most through 2017:

- Cemex
- Lithko Contracting
- CRH
- Vulcan Materials
- Turner Construction
- BASF
- Argos
- Irving Materials
- Sequatchie Concrete
- Rogers Group
- Structural Group
- Titan America
- Cal Portland
- Conco Companies
- Martin Marietta
- Maschmeyer Concrete
- U.S. Concrete
- Kiewit
- Lehigh Hanson
- Gerdau

The committee will personally ask each of these companies to reinvest their time and talent into the program to ensure we can continue to increase the supply of motivated and trained graduates moving forward. We invite other companies and associations to raise their hands and volunteer as well!

Equally important will be the active engagement of the program

graduates, many who have achieved significant success in our great industry.

To that end, the opportunity for the next generation of CIM industry leaders to reshape the program for continued success has never been greater. Many of the visionary leaders who have put so much of themselves into building CIM to the level of success attained thus far will be stepping away over the next years to enjoy the fruits of their labor.

If you are a CIM graduate and would like to give back to the program that served as the springboard to your career, please reach out and volunteer. We would love for you to get involved and set the course for the next 20 years!

Please reach out to me at [scox@commandalkon.com](mailto:scox@commandalkon.com) to learn how you can get involved.



**STEVE COX**  
**Chairman**  
*Membership Committee*





## EXECUTIVE MBA DEGREE IN CIM PROGRAM UPDATE



**DR. HEATHER  
BROWN**  
**School of Concrete  
and Construction  
Management**  
**Director/Professor**  
**MTSU CIM**

EACH JANUARY, a new cohort is accepted into the 15-month CIM Executive MBA program. The format includes distance learning, webinars and two on-campus visits to Middle Tennessee State University. The distinctive partner structure is designed for networking and sharing experiences, while fostering a collaborative learning environment. Professionals participating in the CIM Executive MBA program must have a minimum three years of experience in the concrete industry. Academically, all participants must have at least an undergraduate degree from an accredited institution of higher education. While participants must have at least a bachelor's degree, that degree does not have to be in business.

This customized, rigorous and highly interactive Executive MBA program thrives on a diversity of cultures with mutual benefit to participants and sponsoring companies. Its major themes are globalization, leadership, strategy and execution. The curriculum takes participants beyond basics to a true understanding of forces that will shape the concrete and construction industry. Course content has been tailored to reflect the issues important to managers and executives in the concrete industry. Because of the distance learning aspect of the program,



candidates pursuing this degree can continue in their full-time employment responsibilities. With small class sizes, the student-to-teacher ratio is ideal to maximize this unique learning experience.

Previous Executive MBA graduates represent a wide cross-section of the concrete and construction industry. The current cohort is no different.

### 2018-2019 Cohort

- Lu McCrary – Vice President, McCrary West Construction Services
- Sara Parker – Account Manager, Sagamore Ready Mix
- Dexter Lashley – Plant Supervisor, Argos USA
- Andy Haven – General Sales Manager, Lehigh Hanson
- Kevin Overall – Lab Manager, MTSU School of CCM
- Daniel Bentz – Technical Services Manager, Bestway Concrete and Aggregates
- Guy Chaleunsinh – Construction Management, Fluor
- Thomas Harris – Director, Accoa, LLC Designer Concrete



To submit an application, visit the website at <http://www.mtsu.edu/graduate/>. For more information about the CIM MBA program, contact Dr. Heather J. Brown at [heather.brown@mtsu.edu](mailto:heather.brown@mtsu.edu) or (615) 904-8060. The cost for the program is \$25,000 per participant which represents the total academic cost of the program per participant, except for books.



## THE CONCRETE INDUSTRY MANAGEMENT PROGRAM 2017-2018

### A YEAR IN NUMBERS

#### Enrollment/Student information

**440**

Total number of students  
enrolled in CIM programs

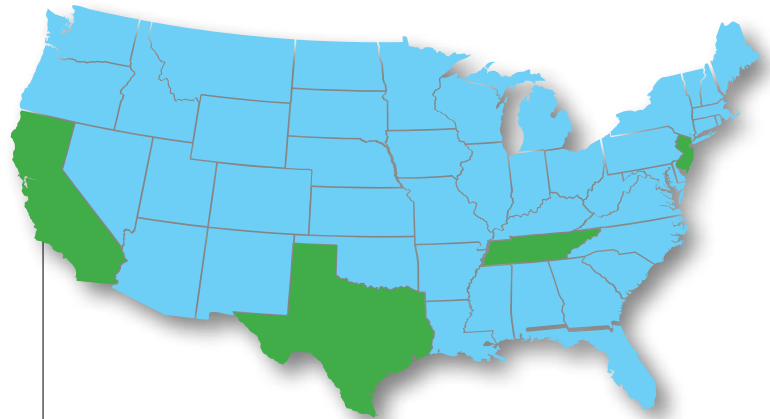
Number of  
graduates

**sixty-  
nine**



**1,183**

Total number of  
graduates since  
the program's  
inception in 1996



**eighty-six** Number of students who  
completed internships



#### Auction information

#### **RECORD-BREAKING AUCTION!**

More than **\$1.1 million** in gross revenue  
raised at annual auction at World of Concrete

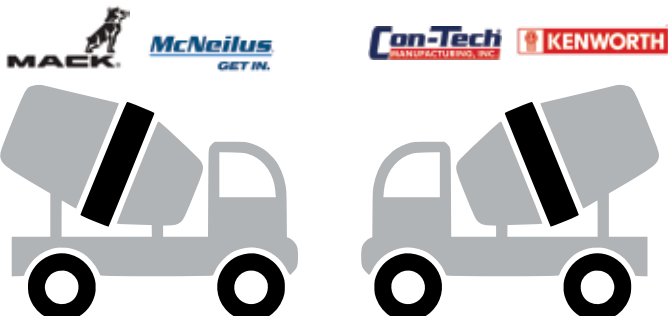
#### National Steering Committee

**six committees**



Education Marketing Finance Long-Range Planning Membership Auction

#### TWO MIXER TRUCKS GENEROUSLY DONATED BY:



**\$601**  
THOUSAND

Amount  
distributed to  
CIM program  
universities



CONCRETE INDUSTRY MANAGEMENT  
Executive MBA Program

**8 new members for  
the 2018-19 cohort**



College of Engineering, Computer Science, and Construction  
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Today, CSU, Chico is a comprehensive university serving not only the local region, but also the state, the nation, and the world, through instruction, research, and public service.



**FERAIDON ATAIE**  
**CSUC CIM**  
**Program Director**

## ENROLLMENT DATA

### Program Enrollment:

Fall 2017: 110  
Spring 2018: 90

### Graduates:

Fall 2017: 2  
Spring 2018: 7  
Total graduates to date: 115

## INTERNSHIPS

25 students had internships for the 2017-2018 school year

## EMPLOYMENT

100% of graduating seniors had jobs at the time of graduation.

## STAFF/FACULTY INFORMATION

- Dr. Feraidon Ataie, Ph.D., is an active member of American Concrete Institute (ACI), American Society of Concrete Contractors (ASCC) and American Society of Civil Engineers (ASCE).
- Dr. Mohammed Alabahtiti, Ph.D., is an active member of ACI and National Precast Concrete Association (NPCA).

# ANNUAL INSTITUTIONAL CIM PROGRAM REPORT 2017-2018



## PATRONS' GROUPS

The CIM Patrons' group at Chico State, led by Doug Guerrero, consists of more than 50 companies and individual donors. Each semester (fall and spring), our Patrons gather on campus to meet CIM students, faculty, staff and the university administration. During these meetings, CIM students have the opportunity to network with our Patrons. Many students find full-time jobs and summer internships at these meetings.

The Patrons group offers guest lectures, recruitment activities, internship opportunities and scholarships to the students in the CIM program.

The Patrons group met in October 2017 and again in April 2018.

## ALUMNI OUTREACH

CIM-Chico State alumni had their annual alumni barbecue in April 2018. More than 50 students and alumni participated in the event.

## AWARDS, SCHOLARSHIPS, GRANTS AND RECOGNITION

- Damien Bonis won the Bob Weatherton Award at the 2018 World of Concrete. Damien competed against 12 other students from other CIM programs.
- Jordan Nuque received a \$5,000 scholarship from ASCC.
- Dr. Ataie received research grants from the Agricultural Research Institute of California State University and the California Rice Research Board.
- Dr. Albahtiti received a grant from NPCA for developing a precast class for CIM curriculum at Chico State.
- Dr. Ataie received the ASTM International Professor of the Year Award, which recognizes and rewards the contributions of educators in developing students' understanding of standards.

## INDUSTRY RELATIONS/ STUDENT TRAVEL

- ASCC Annual Convention (Fall 2017) — five students, one faculty member.
- National Ready Mixed Concrete Association's ConcreteWorks (Fall 2017) — six students, one faculty member.

- The Precast Show (Spring 2018) — seven students, one faculty member.
- World of Concrete (Spring 2018) — 12 students, one faculty member, a college dean, Chico State President, four staff members.
- ACI Convention (Fall 2017 and Spring 2018) — 10 students total and two faculty members.
- ICRI Convention (Spring 2018) — seven students.
- California Construction and Industrial Materials Association (CalCIMA) Education Conference (Fall 2017) — three students and one faculty member.

## PUBLICATIONS

- Ataie, F; "Influence of Rice Straw Fibers on Concrete Strength and Drying Shrinkage"; Sustainability; Volume 10, No. 7: 2445; 2018.
- Ataie, F, Riding, K. and Wenqiao, Y.; "The Impact of Hydrothermal and Dilute Acid Pretreatments and Inorganic Metals on Thermal Decomposition of Agricultural Residues and Agricultural Residue Ash Properties"; Bioenergy Research; 2018.

## CONFERENCE PRESENTATIONS

- Dr. Ataie presented his research project, "Impact of Cement Type and Curing Temperature on Zinc Oxide Retarding Action"





at the Fall 2017 ACI Convention.

- Dr. Ataie gave a presentation on “Preparing Graduates for Our Industry: The Role of CIM Program” during the Fall 2017 CalCIMA Education Conference.
- Dr. Ataie conducted a day-long workshop on volumetric concrete production at World of Concrete in January 2018.
- Dr. Alabahtiti presented at The Spring 2018 Precast Show.
- Amanda Muller gave a presentation about the CIM program at the American School Counselor Association (ASCA) Annual Conference in July 2018.

## CURRICULUM

The CIM program at Chico State has a unified curriculum that allows students to master topics in concrete production management as well as concrete construction management.

### Chico State Launches Unique 2+2 CIM Program :

Chico State announced a partnership with Butte College and Gavilan College for the launch of the 2+2 CIM program, a fast-track degree pairing business administration and concrete industry management (CIM). As part of the agreement, Gavilan College and Butte College established a new Career Technical Information program with Chico State for business majors who want to achieve a bachelor's degree in CIM at Chico State. Students will complete an associate degree in business at Gavilan or Butte and then transfer to Chico State to major in CIM. Students finish the degree with a major in concrete management and a minor in business administration.

## COMMUNITY SERVICE

- CIM students and faculty teamed with civil engineering students and faculty to build a bioswale at the Butte College campus during Spring 2018.

## NETWORKING AND OUTREACH

- CIM Patron Student Social Event — More than 50 students attended, most Patrons did as well.
- Visited more than 25 high schools and community colleges to promote the CIM program through presentations and other activities. Below is the list of these high schools and colleges.

### High Schools

Bella Vista	Brawley	Calexico
Calipatria	Carpinteria	Central
Channel Islands	Clear Lake	Colusa
Corning Union	Dixon	Dos Pueblos
Durham	Enterprise	Ernest Righetti
Etna	Fillmore	Foothill
Hamilton City	Holtville	Imperial
Inspire	Las Plumas	Lincoln
Live Oak	Mercy	Orland
Pacifica	Petaluma	Pioneer
Preuss	Red Bluff	Rio Mesa
San Marcos	San Pasqual Valley	Santa Maria
Santa Paula	Southwest	Wheatland

### Colleges

Butte College	Diablo Valley College
Gavilan College	Santa Rosa Community College
Shasta College	Siskiyou Community College
Yuba City College	Feather River Community College

### Other

College Quest (Simpson College)	Mexican Consulate: Steps to College
------------------------------------	--

## FINANCIAL INFORMATION

### Chico State Income/Expenses 2016-2017

INCOME	Local Patrons	\$140,000
	National Steering Committee	\$150,000
	<b>Total Income</b>	<b>\$290,000</b>

EXPENSES	Student and Faculty Travel	\$70,000
	Scholarships	\$90,000
	Outreach and Promotions	\$80,000
	Other Expenses	\$50,000
	<b>Total Expenses</b>	<b>\$290,000</b>



# ANNUAL INSTITUTIONAL CIM PROGRAM REPORT 2017-2018



## MIDDLE TENNESSEE STATE UNIVERSITY

1301 East Main Street • Murfreesboro, TN 37132 • (615) 898-2300

Located in Murfreesboro, MTSU is the oldest and largest institution in the Tennessee Board of Regents system. With an enrollment of about 23,000 students, it is the No. 1 producer of graduates for the Greater Nashville economy.



**DR. HEATHER  
BROWN**  
MTSU CIM  
Department Chair &  
Professor

### ENROLLMENT AND GRADUATES

#### Program Enrollment:

Fall 2017: 177

Spring/Summer 2018: 185

#### Graduates:

Fall 2017: 16 graduates

Spring/Summer 2018: 18 graduates

Total graduates to date: 914

### INTERSHIPS

51 students had internships for the 2017-2018

school year.

### EMPLOYMENT

91 percent of graduating seniors had jobs at the time of graduation.

### STAFF/FACULTY INFORMATION

- Phil Buell, Clinical Track Professor for CIM and Construction Management (CM), began in Spring 2018.
- Jacob Avila, Tenure Track Professor, started teaching core classes for CM and CIM in Spring 2018.

## ASSOCIATION INVOLVEMENT

Dr. Marcus Knight, Ph.D.

- Masonry Institute of Tennessee

Dr. Heather J. Brown, Ph.D.

- American Society of Concrete Contractors (ASCC), Emerging Leaders Committee
- American Concrete Institute (ACI), Fellow and Committee Member, Faculty Co-Chair, Board of Directors
- Rutherford County Construction Council

Jon Huddleston

- ACI Faculty Co-Chair

## PATRONS GROUPS INVOLVEMENT

There are 95 active members in the MTSU Patrons Group and activities have included:

- Classroom visits.
- Student mentors.
- CIM homecoming event and auction with more than 55 CIM students and alumni.
- Student worker funds.
- Scholarships.
- Research assistance.

## Fundraising

CIM Skeet Shoot with students and alumni on Oct. 6, 2017.

- Nine teams participated.
- Five field sponsorships and luncheon.
- \$10,284 raised.

Jim Speakman Golf Tournament on May 2, 2018.

- Two flights.
- 54 teams plus sponsorships.
- Raffle.
- \$97,600 raised.

## Patrons Group meetings in 2017-2018

- Patrons Work Session and Scholarship Luncheon — Aug. 25, 2017.
- Patrons Meeting, Skeet Shoot and Auction — Oct. 6, 2017.
- Alumni Homecoming Tailgate — Oct. 7, 2017.
- Patrons Work Session/holiday event, offsite — Dec. 19, 2017.
- Patrons Meeting at World of Concrete — Jan. 24, 2018.
- Patrons Work Session — March 21, 2018.
- Patrons Meeting and Senior Dinner — May 1, 2018.
- Patrons-hosted NSC meeting — May 1, 2018.
- Annual CIM Golf Tournament — May 2, 2018.

## AWARDS, SCHOLARSHIPS, GRANTS AND RECOGNITION

- Tennessee Concrete Association Scholarship: Jacob Lannom, Esteban Lelli, Jordan Anderson.
- Southeast Portland Cement Association Scholarship: Dimitri Petrov, Dustin Heaton.
- William Avery Scholarship: Taylor Northern.
- Sika Scholarship: Charles Douglas, Matt Stephenson.
- FRCA Scholarship: David Greene, Andrew Symonds.



# ANNUAL INSTITUTIONAL CIM PROGRAM REPORT 2017-2018



- Earl Keese Scholarship: Jaclyn Streeter.
- Elton Cook Scholarship: Timothy Paul, Lucas Rogers.
- Lehigh Cement Scholarship: Peter Roldan.
- BASF Scholarship: Jordan Fischer.
- GRMCA Scholarship: Connor Lane.
- Concrete Supply Scholarship: Peter Rolden.
- Homer Woods Davenport Scholarship: Joshua Brinegar.
- Red Victory: Jaclyn Streeter.
- NSC Industry Scholarship: Gary Shehane, Jacob Wells, William Walker, Mickey Malone, Timothy Hunter, Jordan Anderson, Lauren Clodfelter, Matthew Wright, Daniel Medley, Hunter Savely, Chase Hochstetler, Amber Hartsfield, Alexis Bush.
- CIM Scholarships: \$79,445.32 awarded to 37 students.
- ACI student chapter entered the ACI Concrete Bowling Ball competition and placed 11th out of 65 teams from around the world.
- Rush Milam, CIM senior, was inducted into Phi Kappa Phi.
- Josh Brinegar was awarded National Science Foundation's Research Experiences for Undergrads funding to study nanomaterials over the summer at Tennessee Tech.

## Program Recognition

- MTSU News: "Mentored ACE camp at MTSU gives participants 'concrete' career ideas," July 18, 2017.
- Heather Brown: "Alpha Omicron Pi Hosts Scaling the Glass Ceiling Event to Educate Students on Fair Wages, Workplace Equality," October 2017.
- Dr. Yang: "MTSU's internationally recognized School of Concrete and Construction Management makes an impact where rubber meets the road in Tennessee," May 4, 2018.
- School of Concrete and Construction Management (CCM): "Young Tennesseans Have New Paths to Construction Industry," Aug. 28, 2017.
- School of CCM: "MTSU AGC Student Leaders attend 99th Annual AGC Convention in New Orleans," Feb. 27, 2018.
- School of CCM: "Appalachian Service Project Race to Build 2018," April 16, 2018.
- CIM Student Honor: "Josh Brinegar, CIM student, Buchanan Scholar and Civil Air Patrol member, was awarded an NSF Research Experience for his work studying energy conservation," May 2, 2018.
- Heather Brown: "Rogers Group, Inc. supports MTSU for a new building," May 4, 2018.

## RESEARCH AND STUDENT PROJECTS

- Continued testing of fibrillated fibers for shrinkage, strength and impact resistance as part of an industry partnership with MiniFibers, Inc. for use in precast concrete and concrete flooring applications.
- Lauren Clodfelter presented a poster on the use of fibrillated fibers in concrete at MTSU Scholars Week.
- Continued research on the use of SCMs in concrete bridge decks through the Tennessee Department of Transportation (TDOT) by conducting a field study requiring the use of the mix designs developed in the CIM lab on two bridge decks in College Grove, Tenn. The bridge decks are currently being tested for strength and chloride permeability as the decks age and experience changing weathering and winter salt treatments.
- Submitted a TDOT grant with co-PI Butler and Apigian on self-driving vehicles.
- Mix designs for BASF.
- TCA: mix designs for sand replacement, on-site concrete testing, humidity sensor research.
- Wacker research: pervious cores freeze-thaw study.
- Rogers Group: man. sand study, eight mixes total.
- Pyles Concrete: gradations, washes and compressive testing.
- Swarco Industries: built, poured and finished 12 test samples for striping research.
- Clemons Coatings: tested products for evaporation research.
- Aerix Industries: flowable fill mixes.
- Cut concrete ponding specimens for Dr. Yang's research.
- Batten & Shaw: provided compressive strength testing for Climb Murfreesboro project.
- Ole South: chloride testing for driveways.
- Integration Concrete: chloride testing for driveways.

## INDUSTRY RELATIONS

- American Society of Concrete Contractors (ASCC) Annual Conference in Phoenix, Sept. 14-16, 2017 — Brown plus four students.
- National Ready Mixed Concrete Association (NRMCA) Conference in Grapevine, Texas, Oct. 1-3, 2017 — Knight plus seven students.
- Allen Engineering Concrete College in Paragould, Ariz., Oct. 9-10, 2017 — Overall plus three students.
- Command Alkon Software Conference in New Orleans, Nov. 7-10, 2017 — Huddleston plus four students.
- World of Concrete in Las Vegas, Jan. 22-26 2018 — Brown,



- Green, Victory, Overall, Knight plus 27 students.
- The Precast Show, Denver, Feb. 22-24, 2018 — Huddleston plus 10 students.
- Associated General Contractors (AGC) Annual Conference in New Orleans, Feb. 26-28, 2018 — Avila plus three students.
- NRMCA Spring Meeting in Houston, March 3-6, 2018 — Knight plus three students.
- Appalachian Service Project's Race to Build Competition at Bristol (Tenn.) Food City 500, April 13-15, 2018 — Brown, Vanhook, Avila plus 14 students.

## Industry Speakers between August 2017 and May 2018:

- CPS Land: Rob Pease, Vice President; Andrew Ethridge, Project Manager.
- SEC Engineering: Mark Lee, President.
- Goodall Homes: Maverick Green, Land Manager.
- Goodall Homes: Rachael Overall, Director of Marketing.
- Regent Homes: Derinda Sircy, Director of Sales.
- City of Lebanon: Ray Hubner, Assistant Director, Building Codes; Tyler McDaniel, Inspector.
- RingCentral: Nathaniel Yip.
- Apex Restoration: Bob Brannon.
- Apex Restoration: Greg Driver.
- E3 Constriction: Stephanie Evans.
- Dalamar Homes: Matthew Martin.
- Anderson Windows: Phil Crawley.
- SEC Engineering: Mark Lee.
- SEPCA: Jessie Boone.
- Autodesk: Michael Bugbee.
- Collier Engineering: Hayden Bilyeu.
- McDougall Inc.: Alec McDougall.
- Irving Materials Inc.: Amanda Schweihardt.
- Irving Materials Inc.: Sales 101 with Jason Richmond.
- Turner Construction: Sara Andon.
- Summit Materials: Tripp Arnold.

## PUBLICATIONS AND PRESENTATIONS

### Reviewed Publications by CIM Faculty

Dr. Heather J. Brown — seven reviewed papers:

- Construction and Building Materials Journal — four papers.
- Journal of Transportation Engineering, Pavements — one paper.

- Journal of Performance of Constructed Facilities — two papers.
- Research Paper: "Production of Eco-Friendly Brick from Construction Debris."
- Research Paper: "Resistance to Sulfate Attack of Magnesium Phosphate Cement-Coated Concrete."
- Research Paper: "Comparing Design Void Content with Actual Void Content of Laboratory Prepared Pervious Concrete."
- Research Paper: "Influence of Rice Straw Fibers on Concrete Strength and Drying Shrinkage."
- Technical Paper: "Pervious Concrete Surface Characterization to Reduce Slip-Related Falls."
- Technical Paper: "Validation of Strengths and Limitations of Seismic Methods in Quality Management and Assessment of Shotcrete Liners."
- Technical Paper: "Methodology for Mechanistic Design of Pervious Concrete Pavements."

## STUDENT, FACULTY AND STAFF PRESENTATIONS

- World of Concrete Weatherton Paper Awards — Jaclyn Streeter, Dmitry Petrov.
- Dr. Heather J. Brown Presentations:
  - Research presentation at the Concrete Foundations Association's annual meeting.
  - Research presentation at the Arkansas Ready Mix Concrete Summer Meeting.
  - Research meeting between TDOT and Spraylock for continued lab research.
  - Judge for Murfreesboro ATHENA Awards.
  - Expert witness for State of Tennessee related to Standing Stone Dam.
  - Presentation at McMinnville Rotary Club about School of CCM.
  - Expert witness for Stanton v. Heffington Tree Dispute.
  - Power Panel speaker — AEC Organization.
  - National Women's History Month speaker.
  - Overall Creek Elementary School faculty mentor.
  - Club MARVEL host and speaker.
  - Tennessee Public Works speaker on Concrete 101.
  - Hosted the American Concrete Pipe Association Pipe School on campus to 500 attendees.
  - Member of the Gygi Von Weiss Scholarship Board for Lafarge Holcim.
  - Guest speaker at Turner Girls Day.



# ANNUAL INSTITUTIONAL CIM PROGRAM REPORT 2017-2018



## CURRICULUM

- Overhauled the CIM and CM curriculum to include new CCM core classes for all majors.
- Created an articulation agreement for CIM majors to transfer from Motlow State Community College.
- Implemented Procore Construction Project Management software.
- Hosted a mock bid day in the estimating class, led by Skanska and the American Society of Professional Estimators.
- Formed a memorandum of agreement with TDOT for the one-year Road Construction Certificate program for their employees.

## STUDENT PROJECTS

- Sponsored students at Habitat for Humanity of Middle TN build for the fourth year in a row; participated in several local builds and met with Rutherford County staff to formalize a plan to be more involved in the future as the local chapter grows.
- Three staff accompanied nine students, for the third year in a row, on a 12-day study-abroad trip (summer 2017) to form and pour concrete prisms to be deployed as an artificial reef in Sosua, Dominican Republic.
- Concrete projects in and around the community including:
  - Central Magnet pitcher's mound.
  - Concrete trellis posts for Dr. Tony Vaughn Johnston's (Ph.D.) grapes at the MTSU School of Agriculture.
  - Horse-shed footings (24 footings for six sheds).
  - MTSU Track Pour and driveway extension on campus in CIM 3050 class.
  - Concrete benches, sidewalk and dumpster pad on campus in the decorative concrete class.

## PROGRAMS AND EVENTS FOR STUDENTS

- Hosted the Women in Concrete Luncheon featuring industry speaker Kerri Todd of Burnco; Brown, Green, Victory, Shepherd plus 17 students, 25 alumni and guests.
- Jim Seabury Enterprise Electric lunch and plant tour, Nashville, Tenn.
- Masonry class field trip to Rockvale Elementary to view masonry construction.
- Hosted the American Concrete Pipe Association's annual Pipe School at MTSU prior to the start of spring classes and over two snow days.

## NETWORKING AND OUTREACH

Date	Fall Recruiting Events
9/20/17	Davidson Homes marathon meeting
9/28/17	Donley's social
9/28/17	Goodall Homes marathon meeting
10/4/17	Dalamar Homes marathon meeting
10/5/17	Networking event — 44 CM; 110 CIM
10/10/17	Argos social
10/12/17	Beazer Homes marathon meeting
10/19/17	SOS Retail marathon meeting
10/23/17	The Comfort Group social
10/25/17	Celebration Homes marathon meeting
11/7/17	Preferred Materials social
11/9/17	Baker social
11/13/17	Delaware Valley social
11/14/17	Whiting-Turner social
11/16/17	Drees social
11/17/17	Habitat for Humanity build
11/21/17	Habitat for Humanity build
11/29/17	Hemma interviews
12/4/17	Keiwi social
12/5/17	Mapei social

Date	Spring Recruiting Events
1/25/18	Baker Concrete social
1/30/18	US Concrete social
2/8/18	Blue Dot Ready-Mix social
2/8/18	Vector social
2/9/18	Internship speed interview
2/20/18	Wright Construction social
2/22/18	ECS social
2/28/18	Next Step Ministries social
3/15/18	Robins and Morton social
3/20/18	Command Alkon social
3/22/18	CECO social
3/26/18	LafargeHolcim social
3/27/18	RC Mathews social
3/28/18	Turner social
4/3/18	Doster social
4/4/18	Hensel Phelps social
4/5/18	Maschmeyer social
4/11/18	Thompson Machinery interviews
4/17/18	McDougall social
4/19/18	Imi guest speaker

## K-12 STUDENT OUTREACH

- Hosted two high school interns in June 2017 for Rutherford Works program.
- Numerous presentations and/or hands-on demonstrations by faculty and staff including: Club Marvel, Putnam County High School (40 students); MTSU Tour Guides; Oakland Middle School; Blackman Collegiate Academy; and the MTSU Child Care Lab.
- ACE Camp for 18 high school students for one week in July 2017.

## ALUMNI OUTREACH

- Homecoming Skeet Shoot and Tailgate — 45 alumni.
- 14th Annual CIM Golf Tournament — 50 alumni.
- World of Concrete Auction — 15 alumni.
- Turner Alumni Event with Dr. Sidney A. McPhee, President of MTSU — 14 alumni.

## COMMUNITY OUTREACH/ FUNDRAISING

- Fundraised \$2.5 million dollars from March 30 to June 30 for THEC building proposal.
- School of CCM Golf Tournament was renamed to honor a Patron: the Jim Speakman Memorial Golf Tournament. It was the biggest ever, with 54 teams and more than 60 alumni attending, raising \$97,600.
- The annual CIM Skeet Shoot raised \$5,024.
- The CIM alumni auction raised \$5,260; a collection jar at the event for the alum Ryan Helton, who passed away from cancer in 2017, raised \$7,350 at the end of the night to go to his family.
- \$2,500 in scholarship funding for “Race To Build” participation; Drs. Avila and Brown.
- Patrons had a Hatch Show Print created to sell for a profit to MTSU alumni.
- Habitat for Humanity student volunteers, fall and spring 2016/2017.
- Salvation Army; Dr. Heather J. Brown served as a board member and monthly volunteer.
- Rutherford County Construction Council; Dr. Heather J. Brown served as a member.
- Cane Ridge High School Advisory Board; Dr. Heather J. Brown.

## FINANCIAL INFORMATION

INCOME	Patrons	\$125,956
	Scholarships	\$102,626
	National Steering Committee	\$100,000.00
	University	\$1,282,630.00
<b>Total Income</b>		<b>\$1,611,212</b>

EXPENSES	Salaries	\$1,217,614
	Operating	\$163,738
	Travel	\$87,300
	Scholarships	\$72,626
<b>Total Expenses</b>		<b>\$1,541,278</b>



# ANNUAL INSTITUTIONAL CIM PROGRAM REPORT 2017-2018



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We are proud of our 130 years of history. We've doubled the size of our campus in the last decade, pouring millions into new research facilities giving our students the edge they need in today's marketplace.



**DR. MOHAMED  
MAHGBOUB**  
NJIT CIM  
Program Director

## ENROLLMENT DATA

### Program Enrollment:

Fall 2017: 90

Spring/Summer 2018: 90

### Number of Graduates:

Fall 2017: 1

Spring/Summer 2018: 15

Total graduates to date: 87

## INTERNSHIPS

Students with internships in 2017-2018: 10

## STAFF/FACULTY COMMITTEE INVOLVEMENT

### Dr. Mohamed Mahgoub, PE, FACI, Ph.D., CIM Program Director

- American Concrete Institute (ACI) Fellow, March 2018.
- Committee Chair, ACI Committee 555 Concrete with Recycled Materials, for a three-year term (March 2012 to March 2018).
- President, New Jersey ACI Chapter.
- Voting member, ACI committees 130 (Concrete Sustainability);



342 (Bridge Evaluation); 343 (Bridge Design) and 440 (Fiber Reinforcement Polymer).

- Member, American Society of Civil Engineers (ASCE).
- Member, ASCE North Jersey Branch.
- Member, International Concrete Repair Institute (ICRI).
- Member, ICRI Metro New York Chapter.
- Member, Precast/Prestressed Concrete Institute (PCI).

## PATRONS GROUP INVOLVEMENT

Patrons group involvement with the CIM program continues to be the driving force of our success. We have a new Patrons Chairperson, Frank Flatch with Silvi Group. We cannot thank enough the CIM Northeast Local Patrons members and Patrons head Frank Flatch for their unwavering support, sacrifice of time and strong investment. A few examples of Patron support are listed below.

- Offered an additional \$25,000 in scholarship money this summer.
- Hosted the annual Benefit Fundraising Dinner, held each February. The 2018 dinner raised about \$110,000.
- Provided scholarship programs for CIM students: Silvi Scholarship, Sika Scholarship and CIM Northeast Patrons Endowed Scholarship.
- Made available to CIM students internships, co-ops and full-time job opportunities.
- Provided CIM students with golden opportunities to network and a chance to better understand their career potential. This happened during conferences, socials and organizational activities.
- Acted as mentors to students; kept the students engaged and encouraged while guiding them as they progressed through their studies.
- Provided supplies, donations and guidance for undergraduate concrete research projects.
- Hosted plant tours and field visits; held socials and offered guest lecturers.
- Organized the biannual CIM Northeast Local Patrons meetings, which so far have occurred in December 2017 and May 2018.

## ALUMNI INVOLVEMENT

Alumni are always invited as guest speakers in all CIM classes. They share their experiences with the CIM students and give them valuable advice.

## AWARDS, SCHOLARSHIPS, GRANTS AND RECOGNITION

CIM undergraduates continue to receive scholarships and grants from NJIT, Sika, Silvi and ACI.

## ACI FELLOW

Dr. Mahgoub was awarded the ACI Fellow in March 2018 at the ACI Convention in Salt Lake City.

## UNDERGRADUATE RESEARCH

- Total grant dollars requested: \$1,000,000.
- Total grant dollars received: \$100,000.

## RESEARCH AND STUDENT PROJECTS

- “Impact of Extended Mixing Time on Concrete Durability and Performance”; RMC Research and Education Foundation (\$50,000); one year and a half (6-month extension).
- “Concrete Recycling”; NJIT Faculty Seed Fund (\$50,000); one year.

## PROGRAM RECOGNITION

- 2017 ACI Excellent University

## INDUSTRY RELATIONS

### Student/Faculty/Staff Travel

- World of Concrete 2018 in Las Vegas; six students and one faculty member; Jan. 21-25, 2018.
- ACI Spring 2018 Convention in Salt Lake City; five students and one faculty; March 25-29, 2018.
- ICRI Spring 2018 Convention in San Francisco; five students and one staff; April 11-13, 2018.
- National Ready Mixed Concrete Association’s (NRMCA) ConcreteWorks 2018 in National Harbor, Md.; eight students and one faculty; Sept. 29-30, 2018.
- ACI Fall 2018 Convention, Las Vegas; five students and one faculty; Oct. 13-15, 2018.

### Industry-Sponsored Guest Speakers

**A total of 20 speakers participated between August 2017 and May 2018, including:**

- Donia Abdelmotaal, New York New Jersey Port Authority.
- Erica Johnson, Sika.
- Ricardo Arocha, Weldon Materials.
- Gaudi Nunez, Adtech.
- Zach Rich, Silvi Group.
- Julie Mostafa, Pullman.
- Ken Justice, NRMCA.
- Walter Cevallos, SSC High Rise Construction.
- Narguis Benyamin, Peerless Concrete Products Co.



# ANNUAL INSTITUTIONAL CIM PROGRAM REPORT 2017-2018



- Mariza Antonio, IBA Consultants.
- Mina Salib, Creter Vault Corp.
- Julio Pecho, ULMA Construction.
- Daniel Regad, Sika.

## PUBLICATIONS AND PRESENTATIONS

- Mahgoub, M. and Rawlins, W.; “Evaluation of the 90-Minute Rule as an Acceptance Criteria”; ACI Fall 2018 Convention; Las Vegas; Oct. 14, 2018.
- Mahgoub, M.; “Concrete Bridge Damage Detection Using Wireless Sensor Networks (WSNs)”; ACI Fall 2018 Convention; Las Vegas; Oct. 17, 2018.
- Hossein, M, Mahgoub, M. and Washington, D.; “Use of Recycled Aggregate Concrete in Flowable Fill”; ACI Fall 2018 Convention; Las Vegas; Oct. 17, 2018.

- Mousa, A., Mahgoub, M. and Hossein, M. “Lightweight Concrete in America: Presence and Challenges”; Journal of Sustainable Production and Consumption (2018), pages 131–144, Elsevier; July 3, 2018.

## CURRICULUM/SPECIAL PROJECTS

- The CIM curriculum was reduced from 128 credits to 120 credits.
- CIM students carried out several concrete-sustainability and recycled-aggregate projects as part of their senior projects.
- Summer 2018: One CIM student spent the summer participating in a repair project at Alcatraz prison in San Francisco.

## Awarded Proposals

- “Impact of Extended Mixing Time on Concrete Durability and Performance”; Ready Mixed Concrete (RMC) Research & Education Foundation; amount: \$50,000; August 31, 2017.



## Student Competitions

- International Bowling Ball Competition; ACI Spring 2018 Convention, Salt Lake City; March 25-29, 2018.
- International Pervious Concrete Competition; ACI Fall 2018 Convention, Las Vegas; Oct. 13-15, 2018.

## JOB POSTINGS

**199 total positions were emailed to CIM students in 2017-2018:**

- 100 full-time openings, 30 part-time openings, 69 internships.
- Three socials were hosted by three different companies.
- 20 employers each made five total visits to NJIT to interview students.

## NETWORKING AND OUTREACH

**During the 2017-2018 academic year, three socials were hosted by three different companies and attended by 80 students. These socials included:**

- Ulma; March 2018.
- MAPEI; September 2018.
- Lithko Contracting; October 2018.

## RECRUITING EVENTS

- NJIT Former academic advisor Anlee Orama and CIM students introduced the CIM program to 50 New Jersey high school students at several open-house, high school and recruitment events.
- NJIT hosted approximately 600 students in December 2017.
- Dr. Mahgoub and three CIM students presented the CIM program to 500 students at NJIT's Educational Opportunity Program during summer 2018.
- The Student Ambassador Program is moving forward: Students visited high schools and community colleges to promote the CIM program.

## FINANCIAL INFORMATION

INCOME	National Patrons	\$100,000
	National Patrons (scholarships)	\$50,000
	Local Patrons	\$100,000
	Local Patrons (scholarships, match)	\$50,000
<b>Total Income</b>		<b>\$300,000</b>

EXPENSES	Travel by program director, faculty, staff, students	\$55,000
	Guest speakers, field visits, seminars, workshops, attending local events	\$14,000
	Undergraduate research	\$25,000
	Concrete laboratory	\$60,000
	Recruitment, CIM promotion and marketing, fundraising	\$10,000
	Socials	\$6,000
	Student competitions (4 per year)	\$15,500
	Supplies (copying, printing, stationary, etc.)	\$5,000
	ACI and ICRI student chapters	\$15,000
	Local Patrons meeting (twice per year) and NSC meeting	\$35,000
	Salaries	\$10,000
	Scholarships (waiting for final signatures)	\$40,000
<b>Total Expenses</b>		<b>\$290,500</b>



# ANNUAL INSTITUTIONAL CIM PROGRAM REPORT 2017-2018



Department of Engineering Technology  
601 University Drive • San Marcos, TX 78666 • (512) 245-2137

With an enrollment of more than 36,000 Bobcats, Texas State University is the fourth-largest university in Texas and our outstanding faculty are recognized at the highest state and national levels.



**W. JAMES WILDE**  
*Texas State  
Program Director*

## ENROLLMENT DATA

### Program Enrollment:

Fall 2017: 55    Spring 2018: 45

### Number of Graduates

Fall 2017: 7    Spring 2018: 3

Total graduates to date: 67

**The following students graduated in Dec. 2017 or May 2018:**

Student	Graduation
Brian MaAshan	Fall 2017
Tate Talamini	Fall 2017
Ben Wallace	Fall 2017
Kady Williams	Fall 2017
Ramon Vargas	Fall 2017
Bryce Martin	Fall 2017
Heath McCarty	Fall 2017
Michael Graves	Spring 2018
Alexander Michael	Spring 2018
William Cinek	Spring 2018
Mason Davis	Spring 2018



## FACULTY ACTIVITIES

### Professional Updates

- Dr. Yoo-Jae Kim, Ph.D., returned from his sabbatical at the Fire Investigation, Research, Testing and Education Division at the Korea Institute of Civil Engineering and Building Technology Research (KICT) in Seoul, South Korea. He conducted research while there, titled “Fire Damage Assessment of Concrete Filled Steel Tube (CFT) Columns” and “Pumpability of HPC Containing Steel and PP Fibers.”
- Dr. Fred Aguayo, Ph.D., was invited to attend the 2018 LEVERAGE Summer Institute on July 24-25, 2018, in Dallas. The overarching purpose of the LEVERAGE Summer Institute is to provide early-career engineering faculty with resources and networking opportunities to further their research objectives. The LEVERAGE partner organizations aspire to create a collaboration network focused on engineering research.
- Dr. Aguayo also attended the Faculty Development Institute funded by the National Science Foundation (NSF).
- Dr. Anthony Torres, Ph.D., attended the Faculty Development Institute funded by the NSF and attended the National Effective Teaching Institute — a three-day workshop hosted by the American Society for Engineering Education.
- Dr. W. James Wilde, PE, spent the year getting to know the CIM program, ramping up recruitment and promotional activities, preparing for upcoming changes and improvements to the curriculum and initiating the accreditation process and preparations for a visit by the Association of Technology, Management, and Applied Engineering (ATMAE).

## STUDENT ACTIVITIES

### Scholarships

- The Texas State CIM Patrons awarded scholarships ranging from \$500 to \$3,000 to Jacob Haby, Savanna Sitz, Maria Valdez, Tommy Huynh, Jesus Estrada, Gillom Jaeger, Crespo Jeremiah, Rasul Gonzalez, Daniela Guillen and Ben Cosson.
- The CIM National Steering Committee provided scholarship funds to attract new students to the CIM program. These scholarship funds were matched dollar for dollar by the Texas State Patrons. Students receiving scholarships included Jason Dove, Jacob Haby, Collin Nerby, Trevor Reisz, Jose Sierra, Savanna Sitz and Maria Valdez. The NSC ISSF scholarships for 2017-2018 totaled \$14,300 from the NSC with an equal match by the Patrons.
- Other scholarships included \$4,500 to three students by the American Concrete Institute (ACI) San Antonio Chapter, \$2,000 to one student by the ACI Central Texas Chapter and \$2,500 to one student by the American Concrete Pipe Association.

### Events

- The ACI Student Chapter elected officers for the 2018-2019 academic year. Officers are Jeremiah Crespo (President), Raul Gonzales and Ben Cossen (Vice Presidents), Jacob Haby (Treasurer) and Tommy Huynh (Secretary). Dr. Aguayo will continue serving as the faculty adviser.

### Service Project

- The ACI Student Chapter worked with the City of Kyle, Texas, to build the entrance to a new dog park owned by the city.
- Students assisted at the joint Texas Department of Transportation (TxDOT) and Cement Council of Texas (CTT) Concrete Conference held April 10-11 in Austin, Texas.
- Three students assisted at the ACI San Antonio annual golf tournament, raising money for scholarships.

### Student Travel

- International Concrete Repair Institute (ICRI) Conference — Four students and Dr. Aguayo attended the January 2018 conference in San Francisco.
- ACI Convention — In March 2018, five Texas State CIM students attended the convention in Salt Lake City with Drs. Wilde, Torres and Aguayo. The students participated in the concrete bowling ball competition.
- World of Concrete (WOC) — In January 2018, six students and Dr. Wilde attended the convention in Las Vegas. At the end of the week they took a tour of the Hoover Dam.

### Student Projects

**CIM 4310 Senior Lab:** Student projects included:

- Effects of clay replacement of fine aggregate on fresh and hardened concrete properties.
- Effects of limestone powder on the fresh and hardened properties of concrete containing 20 percent fly ash.
- Recycled tire rubber repurposed in concrete.

Students presented their projects Dec. 12, 2017.

**CIM 3330 Concrete Construction Methods:** Students made presentations on their respective projects. Topics included:

- Sustainability and pervious concrete.
- Recycled concrete aggregate and its sustainability.
- The effect of self-consolidating concrete on sustainability.
- High-performance concrete and sustainability.

In April 2018, the entire Texas State CIM Class of 2021 students took the ACI Field I Certification exam, sponsored by the ACI Central Texas Chapter. All students passed the written and practical portions of the test and have become certified.

# ANNUAL INSTITUTIONAL CIM PROGRAM REPORT 2017-2018



## Industry Presentations

**The following industry representatives made class presentations:**

- Chase Carter, TAS Commercial Concrete, Nov. 7, 2017
- Justin Sullivan, Capitol Aggregate, Nov. 14, 2017
- Gary Arkin, Premier Stoneworks, March 29, 2018

## Other Student Activities

- Ten CIM students completed their internships during the summer of 2018. Students took positions with TAS Commercial Concrete, Kleinfelder, Rock Engineering, Texas Concrete Materials, Argos, Studio Estates and Lehigh Hanson.
- The Construction and Concrete Industry Career Fairs were held in September 2017 and February 2018. More than 70 companies attended each fair. Old Castle Precast, Argos and Lehigh Hanson

held informational sessions for the students prior to the fairs.

Dr. Wilde set up a “mentoring” program where each junior and senior in the program was assigned one or two freshmen or sophomores with instructions to teach their underclass student(s) how to speak to potential employers at the career fairs.

## Site Visits

**Students visited the following industry offices and facilities.**

- CIM 4310 Senior Lab, WJE Materials Laboratory, Austin, Texas
- Cemex cement plant, New Braunfels, Texas.
- Martin Marietta limestone quarry, New Braunfels, Texas.

## RECRUITMENT AND OUTREACH

### Dr. Kim:

- Represented the CIM program at Texas State’s Bobcat Day, Feb. 17, 2018.
- Represented the CIM program at Pearsall High School career fair, Pearsall, Texas, in March 2018.

### Dr. Wilde:

- Visited four high schools in Texas, meeting with more than 350 students.
- Attended the Texas High School Counselors Association annual convention, meeting with more than 60 high school counselors.
- Met with five community colleges in Texas that have construction- and business-related programs. These colleges have high levels of transferability to the Texas State CIM program.
- Developed formal transfer arrangements with Midland and Amarillo community colleges.
- Met with representatives from 30 concrete-related companies with offices or headquarters in Texas, and three in Oklahoma.
- Spoke to nine chapters or committees of various professional associations in Texas and New Mexico.
- Met with Texas State University recruiters to educate them about the CIM program.

In November 2017, 20 fifth-graders from San Marcos Elementary in San Marcos took an “Exploring Science” field trip to Texas State. Dr. Wilde and a graduate student hosted a concrete lab tour and a concrete activity for the students.



## OTHER ACTIVITIES

### Curriculum

The Texas State CIM program has approved changes to the curriculum for the next academic year. These include the following:

- Development of a new construction finance course, to be taught by the CIM and Construction Science and Management programs.
- Addition of a team-based capstone course to complement the individual project experience.
- Addition of several choices for an elective slot in the curriculum.

### Accreditation

Dr. Wilde has worked with the other CIM program directors to develop new outcomes for the national CIM programs. These new outcomes will help all four programs align with each other at the top level and will help as we pursue accreditation from the ATMAE accreditation body.

### Updated Website

The Texas State CIM program updated the website to include more information for current and future students and to incorporate a local job board for students and employers to connect. View the updated website here: [www.txstate.edu/technology/cim](http://www.txstate.edu/technology/cim).

## PATRONS AND INDUSTRY ACTIVITIES

The Texas State Patrons Board met in September 2017, February 2018 and again in April 2018 in San Marcos, Texas. The board has accomplished the following this year:

- Increased membership from 13 to 25 (and growing).
- Established a more formal organizational structure with an executive committee and other subcommittees.
- Contributed scholarships.
- Committed funding for a portion of the cost of a recruiter for the CIM program.
- Established a multicity golf fundraiser for the CIM program to begin in October 2018.
- Committed funding toward purchase of a large high-shear concrete mixer for the Texas State CIM Laboratory.
- Committed funding for a research project by Dr. Kim.
- Spoke to many classes as guest speakers and guest lecturers.
- Attended the 2018 student awards ceremony on campus.

## RESEARCH AND PUBLICATIONS

### New and Ongoing Research

#### Dr. Kim:

- “The Effects of Limestone Powder Particle Size on the Mechanical Properties and the Life Cycle Assessment of Concrete,” Texas State University Research Enhance Program (REP), \$8,000, January 2017-May 2018.
- “REENERGIZE: Attraction, Recruitment and Retention of Students in STEM Programs through Renewable Energy Research and Education Partnership with Five Minority-Serving Institutions,” U.S. Department of Education, MSEIP Program, \$613,000, September 2014-December 2017.
- “The Effect of Ground Granulated Blast Furnace Slag on Mechanical Properties of High-Strength Concrete,” CIM Patron, \$6,000, May 2018-April 2019.

#### Dr. Aguayo:

- “ASTM C666 Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing,” External Service Project, \$2,165, October 2017-August 2018.
- “Concrete, Aggregates, Cement Materials and Concrete Pavements Testing and Data Collection,” TxDOT, \$200,000, December 2016-November 2018.
- “Accelerated Sulfate Testing of Concrete,” Texas State University — Undergraduate Research Fellowship (URF), \$1,000, December 2017-December 2018.

#### Dr. Torres:

- “Mechanical and Durability Performance of UHSC Produced with Foundry Sand.”

### Publications

- Kim, Y.-J., Cho, B.Y., Lee, S.-J., Hu, J. and Wilde, W.J.; “Investigation of Rheological Properties of Blended Cement Pastes Using Rotational Viscometer and Dynamic Shear Rheometer”; *Advances in Materials Science and Engineering*, Volume 2018, Pages 1-6; 2018.
- Kim, Y.-J., Van Leeuwen, R., Cho, B.-Y., Sriraman, V. and Torres, A.; “Evaluation of the Efficiency of Limestone Powder in Concrete and the Effects on the Environment”; *Sustainability*, Volume 10, No. 2, Pages 1-24; 2018.
- Aguayo, F.M., Funez, O.J., Drimalas, T., Folliard, K.J. and Lute, R.D.; “An Alternative Method to Evaluate the Sulfate Resistance of Cementitious Binders”; *Proceedings of RILEM Workshop External Sulfate Attack — Field Aspects and Lab Tests*. (Under review)
- Aguayo, F.M., Drimalas, T. and Folliard, K.J.; “An Accelerated Method to Evaluating Mixtures to Chemical Sulfate Attack”;



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Advances in Civil Engineering Materials Journal. (Under review.)

- Reza, F., Wilde, W.J. and B.I. Izevbekhai; “Performance of Recycled Concrete Aggregate Pavements Based on Historical Condition Data”; International Journal of Pavement Engineering, Taylor & Francis, published online; July 30, 2018.
- Sriraman, V., Ortiz, A. and Torres, A.; “Teaching Sustainable Engineering and Industrial Ecology Using a Hybrid Problem Project-Based Learning Approach”; ASEE’s 124th Annual Conference and Exhibition; June 2017. Received Best Paper Award — Engineering Technology Division 2017.

## Presentations

- Aguayo, F.M.; “Using Isothermal Calorimetry to Evaluate Early-Age Reactivity of Calcium Aluminate Cements (CACs)”; Calmetrix Austin Applications Conference, Austin, Texas; May 16-17, 2018.
- Aguayo, F.M., Funez, O.J., Drimalas, T., Folliard, K.J. and Lute, R.D.; “An Alternative Method to Evaluate the Sulfate Resistance of Cementitious Binders”; presented at the RILEM Workshop External Sulfate Attack — Field Aspects and Lab Test, Madrid; May 24-25, 2018.
- Wilde, W.J.; “Performance of Concrete Pavements Made with Recycled Concrete Aggregate”; presented at the 2018 American Society of Civil Engineers (ASCE) Austin Continuing Education Workshop, the ACI San Antonio general meeting and the ACI New Mexico general meeting.
- Torres, A. and Aguayo, F.; “Hydration and Alkali Silica Reaction Performance of Ultra High-Strength Concrete with Foundry Sand”; presented as the keynote lecture at the Society of Hispanic Professional Engineers (SHPE) Agricultural, Civil, Environmental & Biological Engineering Session.

## Industry Relations

### Dr. Kim:

- Attended the PCI committee meeting (Chicago).
- Attended the ASCE committee meeting (Reston, Va.).

### Dr. Aguayo:

- Attended World of Concrete (Las Vegas).
- Attended the ACI Fall Convention (Anaheim, Calif.).
- Attended the ACI Spring Convention (Salt Lake City).
- Attended ICRI Spring Meeting (San Francisco).
- Attended the ASTM C01 (Cement) C09 (Aggregates and Concrete) Biannual Winter Meeting (New Orleans).
- Attended the International RILEM Workshop on External Sulfate Attack — Field Aspects and Lab Tests (Madrid).
- Attended the Calmetrix Austin (Texas) Applications Conference.

### Dr. Torres:

- Attended the ACI conventions in Anaheim, Calif., and Salt Lake City with six students at each convention.

### Dr. Wilde:

- Attended the ACI conventions in Anaheim, Calif., and Salt Lake City with six students at each convention.
- Attended the Transportation Research Board meeting in Washington, D.C.
- Attended National Ready Mixed Concrete Association’s ConcreteWorks in Dallas.
- Attended The Precast Show in Denver.

## Professional Affiliations

### Dr. Kim is a member of the following organizations and committees:

- American Society of Civil Engineers
- Seismic Design Committee (ASCE 07-22)
- Wind Load Committee (ASCE 07-22)
- Precast/Prestressed Concrete Institute
- Seismic Design Committee
- Industry Design Handbook Committee
- TxDOT Research Management Committee Technical Advisory Panel
- RMC 5 Structures and Hydraulics
- American Concrete Institute
- Technical Journal Reviewer, Canadian Journal of Civil Engineering, PCI Journal, and Materials and Structures Journal.

### Dr. Torres:

- American Concrete Institute
- Committees 522 (Pervious Concrete) and 555 (Recycled Concrete)

### Dr. Wilde:

- American Concrete Institute
- Committees 325 (Pavements), 231 (Early Age Properties), E802 (Educational Materials), 555 (Recycled Concrete) and 120 (History of Concrete)
- ASCE
- Airfield Pavement Committee
- Transportation Research Board
- Texas Concrete and Aggregate Association
- Education Committee
- Specifications Committee

## Other Faculty Activities

### Dr. Kim:

- Made major contributions to the updated PCI Design Handbook, 8th edition, December 2017.
- Dr. Hyunhwan Kim who was a doctoral candidate in the Material Science, Engineering, and Commercialization program. He graduated in December 2016.

### Dr. Aguayo:

- Represented the CIM Program at the 2018 South Central Texas ICRI golf tournament, April 2018.
- Represented the CIM program at Texas State's Bobcat Day, April 2018.
- Served as the ACI Student Chapter faculty advisor.

## FINANCIAL INFORMATION

INCOME	National Steering Committee: Operating	\$100,000
	National Steering Committee: Scholarships	\$50,000
	Texas State Patrons: Scholarships, Equipment, etc.	\$70,400
	<b>Total Income</b>	<b>\$220,400</b>

EXPENSES	Student and Faculty Travel	\$68,447
	Scholarships	\$28,700
	Recruiting/Marketing, Travel and Promotional Items	\$21,674
	Research: Lab Equipment and Student Payroll	\$15,368
	Lab Equipment and Faculty Research, Committed but not yet Expended	\$56,000
	<b>Total Expenses</b>	<b>\$190,189</b>



## STUDENT PROFILE



**DAMIEN BONIS,**  
CALIFORNIA STATE  
UNIVERSITY – CHICO

### **What school are you currently attending and when is your intended graduation date?**

I attend California State University - Chico and plan to graduate in May of 2019.

### **Where are you from originally?**

I am originally from Long Beach, California.

### **Why did you choose this university and the CIM program?**

I chose Chico State, specifically, because it offered the CIM program and was close to home. I first learned of the major while in high school through a family connection. As someone who loves architecture and history, I was greatly interested in the idea of concrete repair and restoration.

### **How has the CIM program prepared you for your upcoming graduation and entrance into the business world?**

The CIM program does a good job teaching students the basics of concrete science and technology, as well as business fundamentals through its curriculum. The emphasis on building relationships and networking with industry professionals through the Patrons

group of sponsor companies and various industry associations sets up students for success after graduation.

### **What advice would you give to other current CIM students?**

My advice for current students is to be involved. In my opinion, the biggest advantage the CIM program provides to students is the ability to interact with people from the concrete and construction industries and form connections early on in their careers. Not many university students can say that their major offers them such opportunities, so make the most of it!

### **The CIM program works with businesses in providing summer internships. Have you been able to take advantage of that program or any other special program to develop your industry knowledge?**

I have been fortunate enough to have had three distinct internships during my time in the CIM program. In summer of 2016, I was a volunteer with the Concrete Preservation Institute (CPI) on Alcatraz Island in the San Francisco Bay. Along with a group of other CIM students, I analyzed and evaluated the integrity of concrete structures, performed repairs on damaged or deteriorated concrete and learned about the decorative aspects needed to maintain a historic look and texture. Then in 2017, I interned with BASF Master Builders Solutions at the Research and Development headquarters in Beechwood, Ohio. In the lab there, I worked on new product development and did technical support for admixture systems (AS). I spent some time with the marketing group as well, doing market research and business case evaluation for proposed new products. And finally, over the summer of 2018, I was offered an internship with BASF MBT again, this time in Mannheim, Germany. Working with strategic marketing, I did data analysis and performance benchmarking for AS product lines.

Being a hands-on type of person, I have enjoyed all classes involving a lab component. Getting the chance to apply classroom knowledge to real-life situations when working on volunteer projects or industry competitions has also been very rewarding.



## STUDENT PROFILE

I love the hardworking people who make up the concrete industry and hope to end up in operations management or sales as I further my career.



**SAVANNA SITZ,**  
TEXAS STATE  
UNIVERSITY

### **What school are you currently attending and when is your intended graduation date?**

I attend Texas State University and plan to graduate in December, 2018.

### **Where are you from originally?**

I am originally from Bay City, Texas.

### **Why did you choose this university?**

I chose Texas State University because of the CIM program and the amazing location. No other school in the state has the unique program or anything with similar opportunities. Texas State also has a beautiful campus in the city of San Marcos; the area is full of clear rivers and hiking trails and is close to Austin and San Antonio.

### **What made you decide to join the CIM program?**

I joined the CIM program because my brother was currently in the program. I saw the internship and lab assistant opportunities he received and it was hard to ignore how highly he talked of the program and his professors. When I decided to change majors, it was easy to choose a degree that had such a high employment rate and that incorporated my favorite subject: infrastructure.

### **What are your career goals?**

After graduation I plan on working for a ready-mix concrete company in Texas in operations or quality control. I love the hardworking people who make up the concrete industry and hope to end up in operations management or sales as I further my career.

### **If you have had an internship through this program, please provide the employer's name, your job duties and the duration of your internship:**

During the summer of 2017, I had the opportunity to work with Lafarge-Holcim in Dallas, Texas. I was their operations intern and was assigned the job of updating and creating Lockout/Tagout documents at their 18 ready-mix plants in the Dallas and Fort Worth Area. I learned about safety in the field and was taught to batch and operate a wheel loader and a locomotive. During the last several weeks of my internship, I helped quality control technicians perform field tests at the job sites. This summer, I worked for Lehigh Hanson's Houston ready-mix division. The highlight of my summer was working on a water sample project. I tested the mixing water from 20 ready-mix plants around the Houston area for compliance with TxDOT standards. I also helped with a 7,500+ yard overnight mass pour. It was an incredible experience learning about the scheduling and planning that goes into a project of that size and then getting to witness it and help hands on with the team on the jobsite.

### **How has CIM prepared you for working in the concrete industry?**

The CIM program at Texas State has prepared me in many ways to enter the concrete industry after graduation. Twice a year, we have a career fair that gives students the opportunity to meet with concrete industry employers for internships and full-time jobs. All of our CIM classes have real-life applications and are tailored to teach us everything we need to be successful in our future careers.

## STUDENT PROFILE



**MARIE VALDEZ,**  
TEXAS STATE  
UNIVERSITY

### **What school are you currently attending and when is your intended graduation date?**

I am currently attending Texas State University and my intended graduation date is May, 2020.

### **Where are you from originally?**

I am originally from Salinas, California.

### **Why did you choose this university and the CIM program?**

I chose to attend Texas State University because it is the only university in Texas that offers CIM. I chose the CIM program after attending a career skills program while transitioning from the military. The program was run by the Concrete Preservation Institute (CPI) which is a non-profit organization that helps military active duty learn new skills in the concrete and construction industry. I was motivated by everything that I learned from CPI and decided to move to Texas to begin my journey as a CIM student.

### **How has the CIM program prepared you for your upcoming graduation and entrance into the business world?**

The CIM program has given me the opportunity to participate and volunteer in different events where I was able to build relationships and network. The job fairs have helped me shape my communication and interview skills when speaking to different companies.

### **What classes have you enjoyed the most?**

The class that I have enjoyed the most was Fundamentals of Concrete: Properties and Testing because it taught me how to make a mixed design. For the final project, we had to create a mix design for a high-strength concrete. My group spent hours at the lab and library, and our hard work paid off! At the end of the semester, our group won the competition.

### **What advice would you give to other current CIM students?**

Focus on your career goals and do research on the companies you want to work for. Take advantage of the events that CIM offers, because you never know what opportunities might come from those events. Finally, do not wait until your last year to complete a summer internship, because it is good have different internship experiences to know what specialty you are really interested in.

The class that I have enjoyed the most was Fundamentals of Concrete: Properties and Testing because it taught me how to make a mixed design. For the final project, we were to create mix design for a high strength concrete.

## STUDENT PROFILE

If you are interested in construction, CIM is a great program because concrete has many applications in the construction industry. You will be exposed to the industry with hands-on work and experience and will be able to find a great career.



**NIKOLAOS  
ADEL-FAHIM  
BENYAMIN,  
NEW JERSEY  
INSTITUTE OF  
TECHNOLOGY**

### **What school are you currently attending and when is your intended graduation date?**

I am attending New Jersey Institute of Technology and plan to graduate in May, 2020.

### **Where are you from originally?**

I am from Garfield, New Jersey.

### **Why did you choose this university?**

I knew I wanted to be an engineer at a very young age and NJIT had a variety of engineering majors. In addition, once my sister Narguis, a 2014 CIM graduate, told me about this program, I knew I wanted to major in CIM along with construction engineering technology. Since NJIT is the only university to provide CIM in the Northeast region, I knew NJIT was the right school for me.

### **Have you taken part in any internship programs during your first two years at NJIT?**

During the summer of 2017, I had a 10-week internship at Garden State Precast. During that time, I was able to work in specific departments such as sales and estimating, production, quality control, etc. At the end of my internship, I received an official job offer from Garden State for a quality control technician. I now work as a technician/scheduler for Peerless Concrete Products Co.

### **How has CIM prepared you for working in the concrete industry?**

CIM is the reason why I am prepared to work in the concrete industry. Many CIM classes are hands-on which provides students with actual industry experience. Also, through the CIM program, I became the president of NJIT ACI Student Chapter which provided networking opportunities and ACI competitions require us to use out-of-the-box thinking to compete against other college teams. Once I graduate from the CIM program, I will also have a minor in business which will help with managing work efficiently and productively.

### **What meaningful or exciting experiences have you had in the program?**

Through the program and the ACI Student Chapter, I have traveled many times to compete in competitions and to attend conventions, such as The Precast Show. These experiences not only provide a better insight into the industry, but also provide networking opportunities. The reason why I work in the precast industry is because of my trip to The Precast Show.

### **What advice would you give to someone considering joining the CIM program?**

Get involved early on. If you are interested in construction, CIM is a great program because concrete has many applications in the construction industry. You will be exposed to the industry with hands-on work and experience and will be able to find a great career.



## GRADUATE PROFILE



**JACLYN STREETER,**  
MIDDLE TENNESSEE  
STATE UNIVERSITY

### **Which CIM program did you graduate from and in which year?**

I recently graduated from Middle Tennessee State University's CIM program with a concentration in production, sales and services in May of 2018.

### **What is your current position and responsibilities at BASF?**

I am a sales trainee at BASF. My responsibilities include learning the admixture products extensively to help clients determine which product is best for their specific projects. Also, I provide technical support for clients and help them with any questions they may have.

### **Why did you choose this position and this company?**

I chose BASF due to the support, security and advancement that the company has as well as their friendly and supportive work atmosphere. Another reason I chose this company was because they specialize in admixtures, which is a segment in the concrete industry that I find very intriguing. Because of these factors, BASF is the perfect fit.

### **How has the CIM program prepared you for your current job responsibilities?**

The CIM program provided the tools and the skills to help me succeed in this new career. CIM offered many opportunities to problem solve, as well as become familiar with the concrete industry on a day-to-day basis. The most important thing that the CIM program gave to me was the ability to build a tremendous network of alumni, Patrons and other people working in the field to call on when you need help or guidance when starting out in the industry.

### **Why did you choose the CIM program?**

I choose the CIM program due to the variety of paths that you can take with your career from sales to engineering to project management. The options are endless and overall, it is an ever-changing field that will keep you interested every day.

### **The CIM program works with businesses to provide summer internships for CIM students. During your time at MTSU, were you able to take advantage of that program or any other special programs to develop your industry knowledge?**

During my time at MTSU I was able to have an internship with BASF the summer of my junior year. This internship opened the door to a full-time position that I accepted before graduation. I also was able to take part in many trips the program offered to learn more about the industry and build a network of industry professionals to tap into.

### **What advice would you give to current CIM students?**

My advice to students in the program would be – don't be afraid. Don't be afraid to ask questions because everyone in this industry wants to see you learn and succeed. Also, don't be afraid to talk to people in the industry and introduce yourself. Those connections that you make in school will come back around and help you in the long run.

The most important thing that the CIM program gave to me was the ability to build a tremendous network of alumni, Patrons and other people working in the field to call on when you need help or guidance when starting out in the industry.

## EXECUTIVE MBA PROFILE

The CIM MBA program has prepared me in a multitude of ways for my current job responsibilities.

The most impactful way was the many tools that I learned about that allow me to better objectively analyze data and communicate the results properly to both my teams and superiors.



**ERIK WAGNER**

### **What school did you graduate from and in which year (undergraduate)?**

I graduated from Middle Tennessee State University in 2003.

### **When did you graduate from the CIM MBA program?**

Spring 2017

### **Why did you choose to enroll in the CIM MBA program as compared with a traditional MBA or other business program?**

As I looked to continue my education, it was important for me to learn within a program that related to my previous studies, and current line of work and one that would be directly translatable and immediately usable.

### **Where are you currently working?**

I am currently the Director of Nuclear Solutions for Structural Technologies – A Structural Group Company.

### **What are your responsibilities?**

I am responsible for the development and implementation of all projects performed within nuclear power plants and Department of Energy facilities. It is my responsibility to develop the vision, strategy and structure for our team that allows us to assist our customers with technology-driven solutions to address their civil infrastructure challenges. In addition to development, my role requires that I maintain the oversight of the operations and direct support to projects as needed.

### **How has the CIM MBA program prepared you for your current job responsibilities?**

The CIM MBA program has prepared me in a multitude of ways. The most impactful were the many tools that I learned about that allow me to more objectively analyze data and communicate the results properly to both my teams and superiors. In addition to these tools, I learned how to focus on people and develop strategies to better lead, communicate and solve many people problems.

### **What advice would you give to others who may be considering the CIM MBA program?**

While you participate in the program for personal reasons, keep in mind as you learn that much of what you are learning will allow you to better work with others, i.e., operations, human resources or business strategies. In addition, make sure you gain the commitment and support from your team and superiors in the pursuit of this program. It will go a long way.

## PATRON PROFILE



**GREG ODENTHAL,**  
CALIFORNIA STATE  
UNIVERSITY, CHICO

### **What is your involvement in the CIM program? Why did you get involved with the program?**

I was fortunate to work with fellow industry leaders in establishing a CIM program at California State University, Chico. The program gained my interest while working for Granite Construction Company, as we focused on building talent in our materials businesses. In 2002, I visited the CIM program at Middle Tennessee State University and was immediately overwhelmed by the level of energy, talent and commitment of both faculty and students; ultimately hiring a student in 2003.

### **Why have you and your company made the commitment to the CIM program? What benefits do you think it will bring to your company?**

The construction materials industry, concrete-related segments specifically, demand a special set of skills along with familiarity of industry characteristics to be successful. The CIM program provides a foundation of talent that will foster sustainable, financial and operational performance well into the future. My company leverages these talents as we engage companies in areas of process improvement, growth and financial success.

### **What are your thoughts about the industry/academic partnership between CIM and its industry partners and patrons?**

This partnership is unique as it brings the industry directly into the academic arena through guest lectures, field trips and various other interactions. Likewise, it brings students into real world business environments through internship opportunities where students can truly experience the realities of an industry they are aspiring to join.

### **Why should other companies in the concrete industry get involved in the CIM program?**

The business community acknowledges and rewards those companies that balance both internal and external focuses. The same is true for hiring in terms of perspective and contribution toward success. Having a source of industry-oriented talent that is fresh, engaged and qualified will not only help the hiring company, but it also will help the industry as a whole because companies are responding to the challenges and opportunities of the construction materials market.

### **How can companies get involved?**

Involvement takes many different forms. It can include assistance in class presentations, involvement in semi-annual board meetings at Chico, offering internships in almost any or all business units, financial support and/or recruiting students upon graduation.

### **What is your vision for the CIM program?**

That, as a result of the talent and commitment provided by the program and its students, our industry will become more effective both operationally and financially in responding to the markets we serve. Providing sustainable and recognizable value to the communities we are part of.

### **How do you think the CIM program will benefit the concrete industry?**

It has and will foster greater success for decades and centuries to come. Concrete lasts forever!

Having a source of industry-oriented talent that is fresh, engaged and qualified will not only help the hiring company, but the industry as a whole as companies respond to the challenges and opportunities of the construction materials market.



## WHERE ARE THEY NOW?

WE FIRST MET TAYLOR NORTHERN IN THE 2013-2014 CIM ANNUAL REPORT. At that time, she was a recent graduate of the CIM program at Middle Tennessee State University. We asked her a few questions about her experiences as a student of the CIM program.

### THEN

#### **What school did you graduate from and in which year?**

I graduated from Middle Tennessee State University in May of 2014.

#### **How has the CIM program prepared you for your graduation and entry into the working world?**

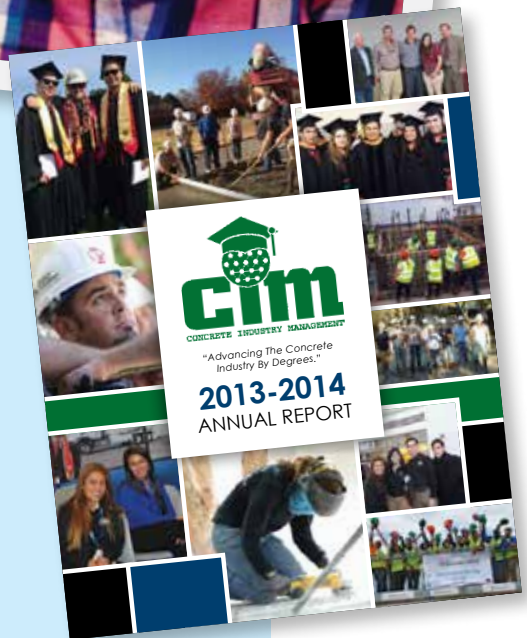
The CIM program introduced me to the scientific side of the construction industry. It provides real, hands-on opportunities to gain the industry exposure that every college student should have. The program teaches you so much about the concrete industry and about business. When I started my career, I was very fortunate to have very few instances that I wasn't familiar with, which helped take some of the fear out of a new start.

#### **Why did you choose the CIM program?**

I started college as a double major in civil & construction engineering at another university. When the time came to move back to Middle Tennessee, I remembered everyone talking about the CIM program when I was growing up, so I decided to stay in the construction industry and give it a try. I can honestly say that I loved my major, and I made an excellent choice.

#### **What advice would you give to current CIM students?**

My advice would be to never say "no" to an opportunity that is given. The CIM program is full of amazing, helpful faculty members who strive to help you succeed. Take advantage of everything that is offered – conferences, conventions, interviews, socials, internships, current projects – everything. That exposure is what will set you apart from everyone else.



## WHERE ARE THEY NOW?



WE RECENTLY ASKED TAYLOR, a 2014 graduate of the CIM program at Middle Tennessee State University, a few questions about what she has been up to since her graduation almost five years ago.

### **Where are you currently working and what are your main responsibilities?**

I am the Transportation Manager and purchasing agent for Oldcastle. I am responsible for maintaining proper inventory levels to meet our production and sales needs, as well as making sure the quality product makes it to the destination in a timely manner. Pretty much, if it comes in or out of our plant, it goes through me.

I had actually applied for a different position at Oldcastle, but the position was filled just a few days before my interview. My interviewers told me that they could see a fire inside me, and that they had another position that I could fill, so I became a purchasing agent. A few months later, I also became the transportation manager. I never saw myself in either of these roles, but that just goes to show that you never know where you should be until you get there.

### **How has the CIM program prepared you for your current job responsibilities?**

CIM stands for much more than just Concrete Industry Management; CIM is more of a driving force in the fact that you want to do your best and you have an industry that will back you. The program teaches that you are capable of doing much more than you

## NOW

ever thought was possible, and that you just have to continue pushing to learn, explore, and grow. Our program is a huge networking opportunity, from start to finish. There are so many professionals and/or fellow students that are always willing to discuss ideas or help. Without these people, I know that I would be a much different person than I am, and I would not be so passionate about my career.

### **Why did you choose the CIM program?**

Many years ago, my dad's best friend had mentioned that MTSU was beginning a "concrete school" and that I should look into it because the possibilities would be endless. I think I was 8 years old at the time, so I really didn't care, but I looked up to him and I always kept it in the back of my mind. Years later, I transferred back to Murfreesboro from my original college career and just couldn't stop thinking about what "Big Blake" had told me years before. I went in the CIM building and met a few students and teachers and just listened to them talk about their classes and internships. I realized there was so much more to this degree. It wasn't the most traditional way to choose my major, but I'm very proud to have graduated from the CIM program.

### **What advice would you give to current CIM students?**

My advice would be to take advantage of every single opportunity you are given, whether it's appealing to you or not. Never give up. You must go after the things that you want and you have an entire industry to help you get there. Don't be afraid to work hard and never think anything is "beneath" you. Always be proactive and forward thinking, but most of all, definitely stay involved with the program. Join the Patrons group, go to fundraisers, speak in classes, share your story and show everyone else that this is a great industry in which to grow.

## WHERE ARE THEY NOW?

WE FIRST MET GREG MERCURIO IN THE 2009-2010 CIM ANNUAL REPORT. At that time, he was a student of the CIM program at California State University - Chico. We asked him a few questions about his experiences as a student of the CIM program.

### THEN

#### **Why did you choose the CIM program and CSU - Chico?**

When I first came to Chico State, I was a pre-business administration major. I had a background in construction and was considering switching my major to construction management. I was told about the Concrete Industry Management major and attended their first Patrons meeting and was blown away by the industry support. I decided to keep my business major and add the CIM program. I chose to come to Chico State because I loved the small college town atmosphere and the people are very friendly.

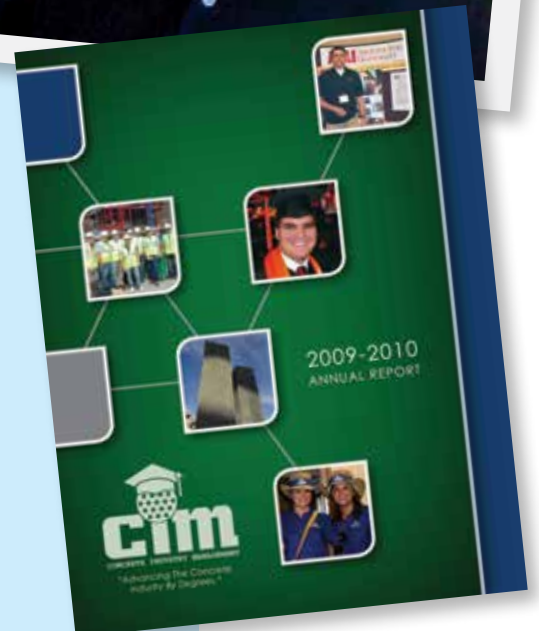
I graduated on May 22, 2010 with a Bachelor of Science degree in CIM and business administration and a minor in managing for sustainability.

#### **How has the CIM program prepared you for the "real world"?**

I can't stress enough the amount of industry involvement in the CIM program. Just about every core class in the program includes a lab component where we get industry experts to teach the labs. We are also one of the only majors on campus that requires an internship to graduate. The curriculum was also designed by industry experts to ensure that we are learning what is relevant to the industry.

#### **What are you doing now?**

Since my graduation in May, I am working for Independent Floor Testing and Inspection, Inc. (IFTI). They are a national independent floor testing company that specializes in concrete slab moisture testing. My position is Technical Report Writer. I analyze field data and develop reports. IFTI is an up-and-coming small company and I am excited to be working with them.





## WHERE ARE THEY NOW?



GREG GRADUATED FROM CSU-CHICO IN MAY 2010. We asked Greg a few questions about what he has been up to since his graduation from CIM.

### **What is your current position and responsibilities?**

I still work at IFTI and I am currently the Chief Operating Officer (COO). In this position, I am responsible for a little bit of everything, from business development, new product development, to account management. I run a weekly strategic leadership meeting with department heads to ensure all departments are working together in concert to grow the business.

### **Why did you choose to work with IFTI?**

I grew into the position, starting as a technical writer and moving up the ladder over the past eight years. I chose the company because they were a small, specialized company with growth potential. When I started at the company, there were only five employees. We now have more than 20.

### **How has the CIM program prepared you for your current job responsibilities?**

The CIM program provides students with such a diverse background of information on the

## NOW

concrete industry that it allows students to go into so many different industries related to concrete. IFTI specializes in concrete slab moisture testing, something I learned little to nothing about during my time in school. However, the CIM program gives you the foundation you need to jump right into the real world and continue to learn and grow throughout your career.

### **Why did you choose the CIM program?**

At the time, I was a business major interested in construction management. A friend of mine at school told me about the new program and we both went to the information session during our freshman year. We were both overwhelmed by the industry support and the fact that the major was created and funded by an industry in dire need of hiring educated college graduates.

### **The CIM program works with businesses to provide summer internships for CIM students. During your time at Chico State, were you able to take advantage of that program or any other special programs to develop your industry knowledge?**

Absolutely! I was fortunate enough to have an internship at the National Ready Mixed Concrete Association (NRMCA). That summer was when everything that I had learned up to that point started to click and become real. There is only so much classwork and labs can provide. Living the industry for 40 hours a week over a 10-week span really gets you acclimated to the real world.

### **What advice would you give to current CIM students?**

It is not all about what you learned during your time at school. College is a very fun training ground for the real world. As long as you learn how to learn in school and find something you are passionate about, the rest will fall into place.

## SUPPORTING ORGANIZATIONS



INTERNATIONAL  
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PROVIDING THE MEANS TO ADVANCE CONCRETE CONSTRUCTION

# CIM RESOURCES



The following resources are a vital part of the curriculum in all of the CIM universities. Association publications and websites play a huge role in developing and maintaining the program — they allow our curriculum to be current and relevant.

American Concrete Institute (ACI) Foundation

American Concrete Pavement Association (ACPA)

American Concrete Pipe Association (ACPA)

American Society of Concrete Contractors (ASCC)

American Society for Testing and Materials (ASTM)

Concrete Reinforcing Steel Institute (CRSI)

Federal Highways Administration (FHWA)

Hanley Wood

International Concrete Repair Institute (ICRI)

National Concrete Masonry Association (NCMA)

National Precast Concrete Association (NPCA)

National Ready Mixed Concrete Association (NRMCA)

Portland Cement Association (PCA)

Precast/Prestressed Concrete Institute (PCI)

The Masonry Society (TMS)

The Post-Tensioning Institute (PTI)



## CIM BACKGROUND

### Advancing the Concrete Industry by Degrees

Recognizing the need for people with enhanced technical, communication and management skills, the Concrete Industry Management (CIM) program was developed in 1996 at Middle Tennessee State University (MTSU). The individuals graduating from this program have the skill set necessary to meet the growing demands of the progressively changing concrete industry of the 21st century. It is a business intensive program, providing solid management skills that can be used in any industry, but has been developed specifically for the concrete industry. The program gives students many advantages including entering the concrete work force with exposure to the industry early in their careers, unlike others coming in with generic business degrees.

The goal of the program is to produce broadly educated, articulate graduates grounded in basic business management, who are knowledgeable of concrete technology and techniques and can manage people and systems as well as promote products or services related to the concrete industry. It entails a broad range of courses, from English and history to science and mathematics. A series of required business courses such as finance, marketing, management and business law are also taken throughout the length of the program. The concrete-specific courses teach the fundamentals of concrete, properties and testing, concrete construction and more. All these courses provide much more than what is simply in the text – they emphasize problem solving, quality assurance and customer satisfaction. They utilize practical case studies and an internship to make sure the student obtains real-world experience essential to starting a successful career.



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### 2017-2018 NSC Leadership

The need for such a program was recognized and put into action by the concrete industry. The end-result was a partnership between the concrete industry and MTSU to develop the CIM program, implementing it with its first two students in 1996. Available at MTSU, California State University, Chico, the New Jersey Institute of Technology, and Texas State University, the program has been successful for both the industry and the graduates.

### The National Steering Committee

Administrative bodies were needed within the concrete industry to manage participation, guidance, and other forms of support related to the program. A grassroots advisory group, the CIM Patrons, was formed to raise funds, promote the program, recruit and mentor students, and provide guest lecturers for classes. A National Steering Committee (NSC), made up of pioneering concrete industry executives, was established to provide oversight to the CIM curriculum and supply guidance for general program direction from a national perspective.

The NSC Board of Directors includes the leadership of long-standing CIM financial

supporters RMC Research & Education Foundation (RMCREF) and the Portland Cement Association (PCA). They have been joined by the National Ready Mixed Concrete Association (NRMCA), American Society of Concrete Contractors (ASCC), The American Concrete Pipe Association (ACPA), National Concrete Masonry Association (NCMA), International Concrete Repair Institute (ICRI), National Precast Concrete Association (NPCA), Precast/Prestressed Concrete Institute (PCI) and American Concrete Institute (ACI) Foundation.

For more information, visit [www.concretedegree.com](http://www.concretedegree.com).

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