

2014-2015 ANNUAL REPORT



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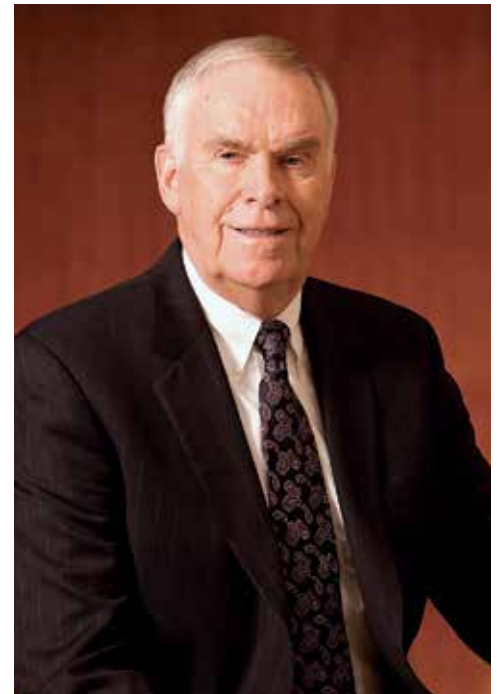
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THE NATIONAL STEERING COMMITTEE (NSC) IS pleased to report on another successful year in its efforts to “advance the concrete industry by degrees” through the Concrete Industry Management program. The demand for CIM graduates will only escalate as the economic recovery continues. To address the growing demand, the NSC has established a strong industry support network providing continued funding and in-kind support for CIM universities. The cornerstone for the ongoing funding is through proceeds from the annual auction held at the World of Concrete. In addition, many of our industry’s associations and foundations have and continue to lend financial support to the NSC through annual contributions. These associations include: the Portland Cement Association, National Ready Mixed Concrete Association, American Concrete Contractors Association, RMC Research and Education Foundation, National Precast Concrete Association, American Concrete Pipe Association, International Concrete Repair Institute, Precast/Prestress Concrete Institute, and American Concrete Institute Foundation

Now that economic recovery is well underway, all CIM programs are experiencing a steady increase in enrollment. Even when the recession was at its worst, all of our graduates who were ready for full-time employment were able to secure jobs in the industry. Today, the industry’s demand for CIM graduates exceeds availability. This is a strong testament to the value the industry places on the CIM program. This past year, the NSC launched a new scholarship funding program for all CIM programs. The new program is designed to encourage new students to enter the program. The first recipients of the new scholarships will enter the program beginning the fall semester of the 2015-16 academic year. The early reviews of the new funding appear to have the desired effect of increasing student enrollment in CIM.

To fulfill its mission of providing support and oversight to the CIM program, the NSC is organized with a Board of Di-

rectors, officers, and a number of committees led and populated by volunteers from all aspects of the industry. One of our most important committees is the Education Committee, led by Dr. Rex Cottle of Trinity Industries. As you review the activities of the Education Committee, highlighted in this report, you will see the committee had a very active and productive year. A special ongoing task force of the Education Committee has been to design and implement an MBA program. Over the past number of years under the leadership of David Vickers of PBM, the task force has worked closely with MTSU in the development of the CIM MBA program. Feedback from the program’s first graduates has been extremely encouraging. As word spreads of the program’s success, we believe companies will find it is a good tool to help develop their executive leadership.



One of the important functions of the CIM program is the ongoing national marketing and promotion of the program both to prospective students as well as to the industry at large. The Marketing Committee is led by Brian Gallagher of O’Neal, Inc. As you review the marketing committee’s activities highlighted in this report, you will soon recognize that Brian and his committee do an outstanding job of promoting and publicizing the activities of all the CIM programs. Most important, the auction’s success is directly

INTRODUCTION FROM THE EXECUTIVE DIRECTOR



linked to all the first-class PR Brian generates to increase awareness and participation in the auction.

As mentioned earlier, the annual auction has become the largest single source of fundraising for the CIM programs. The 2015 auction was another great success, thanks in no small part to the great work of the auction committee under the leadership of Michael Philips of CEMEX and the support of our partners Informa, the World of Concrete, and our auctioneers Ritchie Brothers. There are too many companies and people to thank individually for their support either through donations or work on the committee. A section of this report provides some detail on the 2015 auction's success.

The Long Range Planning Committee, under the leadership of Alan Nedza of BASF, utilized information garnered from its 2013-14 survey and focused its attention on the growing demand for CIM graduates. In addition to increasing the growth of every existing program, the committee is considering expanding the number of universities offering a CIM program.

This past year, the NSC distributed \$400,000 to program universities, which follow a formula for the designated use of NSC funds. The plan is for the funds to be used to support the special aspects of the CIM program that are heav-

ily weighed to CIM students being exposed to the industry through participation at industry sponsored events such as the World of Concrete, NRMCA Concrete Works, ACI, The Precast Show, Concrete Pipe School, ASCC Leadership Forum, and many others. This involvement ensures the students receive broad exposure to the industry and the industry has the opportunity to meet students and learn more about CIM.

Each individual university program's funding is supplemented through the efforts of our partners — each participating university's local Patrons groups. The local Patrons groups not only help fund each university program, but they also assist the programs in many other ways including guest lecturing, hosting local plant tours, and student mentoring to name but a few. As you review this report and the updates from each school, you will see how important the local Patrons are to each program.

The NSC's financial activities are further detailed in the financial update section of this report. When you review that section, you will see the NSC is financially well-positioned to continue supporting the CIM program's growth and success.

I hope you enjoy your review of this report, and we thank you for your support of CIM.

Sincerely,

Eugene Martineau

Executive Director, CIM National Steering Committee

WELCOME TO THE CIM PROGRAM ANNUAL Report. The 2014-2015 CIM Annual Report provides all of our industry supporters with an update of this past year's activities and accomplishments. The report shows the current status of all four of our current CIM programs.

Each of these institution reports show enrollment information, faculty updates/research, student activities/service projects, patrons' group activities and program financial information.

The report also shows the work of each of the CIM committees. The efforts and work product of these committees allow the CIM program to remain unique within the industry.

The Education Committee, under the leadership of Dr. Rex Cottle of Trinity Industries, has had a busy year. This committee reviews the five-year strategic plans that are submitted annually by each of the schools. The committee continues to monitor the learning objectives and outcomes of the various CIM courses and have now successfully completed accreditation visits at all four schools. The Marketing Committee, under the leadership of Brian Gallagher of O'Neal, Inc., continues to inform prospective students, guidance counselors and the industry about the CIM program. Through the website and social media, people are able to stay abreast of the latest CIM events. In addition, the Long Range Planning Committee, under the leadership of Alan Nedza of BASF, continues to provide vision and direction for the continued evolution of the CIM program.

The World of Concrete and Ritchie Bros. continued their support of the annual CIM Auction. Under the leadership of Mike Phillips of CEMEX, the Auction Committee and the industry once again rallied to support this event which had more than \$800,000 in proceeds. This event has become the major source of income for the CIM National Steering Committee and allows us to continue funding the four CIM programs and provide scholarships to students.

The Executive MBA Program at MTSU, under the leadership of Dave Vickers, Dr. Heather Brown and Ayaz Ahmed, has now completed two cohorts and the group is actively recruiting candidates for the next program. This is just one more ex-

ample of how the CIM Program is providing a steady stream of qualified future leaders for the concrete industry.

I would also like to recognize the tireless efforts of two people. Gene Martineau, our Executive Director, has been very passionate about the necessity of having a leadership pipeline for the concrete industry since the early 1990's. He has been "THE" CIM champion since the beginning. Without his passion and vision, we would not have 1,000 CIM graduates. Nicole Maher of NRMCA is another person who has been very instrumental in the success of the CIM program. She arranges all of the CIM activities and I consider her to be the CIM historian. Thank you to both Gene and Nicole.



I would also like to thank all of the local Patron groups which have been the backbone of the CIM Program. These groups continue to provide guest lecturers, sponsor field trips, hire students and graduates and provide financial support that matches or exceeds that of the National Steering Committee.

All of us are now engaged in a recruiting war for talent. This is caused by several things. Among these are the continued economic recovery of our industry and the current and impending retirement of "baby boomers". We need your continued support for the CIM Program as we try to fill the leadership pipeline. We need everyone's help in recruiting students to the CIM Program and we must also continue to provide internship opportunities for the students and full time jobs for the graduates. Working together, we can provide the leaders that this industry will need in the future.

Thank you for your continued commitment to the CIM Program. Please review this Annual Report and feel free to share it with others. Any suggestions and comments are welcome.

Sincerely,

Mike Schneider

Mike Schneider

Chairman, CIM National Steering Committee



DR. REX COTTLE

Chairman
Education
Committee

AS THE CONSTRUCTION INDUSTRY SLOWLY recovers from the Great Recession, the need for quality Concrete Industry Management (CIM) graduates continues to grow. The CIM programs are aggressively responding to this long-term challenge. In the past year, the Education Committee provided support to the CIM programs by: attracting quality individuals into our programs; offering a quality educational experience to the CIM students; and facilitating the CIM faculty's research initiatives to enhance the knowledge and understanding of relevant issues affecting the concrete industry.

The Education Committee reviewed the learning outcomes and objectives for CIM courses in the core curriculum required by each CIM program to ensure CIM students receive a contemporary education covering the broad spectrum of the concrete industry.

CIM programs annually update their five-year strategic plans and submit them to the Long Range Planning Committee. This year, as part of the student recruitment initiatives, each program included a special recruiting strategy to attract and retain non-traditional students, including military veterans.

Given the rising cost of a college education, scholarships provide valuable assistance to our students as they pursue their degrees. Last year, the CIM National Steering Committee (NSC) partnered with the Patrons of each CIM program to offer scholarships to students who recently declared CIM as a major. In addition, the NSC provided seed scholarships to students wanting to pursue the MBA in CIM at Middle Tennessee State University. The Education Committee is working with the CIM programs to assess the effectiveness of this scholarship initiative in retaining these new CIM undergraduate majors and MBA-CIM graduate students. The Education Committee recommended the NSC continue offering scholarships to new majors for another year.

In a special session at the World of Concrete this year, students representing each of the CIM pro-

grams gave presentations on their capstone or internship projects. We thank the World of Concrete for providing a forum for CIM students to showcase their knowledge and skills in addressing real industry problems. We look forward to making this an annual event.

The CIM Journal is expected to begin publication in the coming academic year. It will provide a valuable new outlet for research by academic scholars and industry experts on relevant topics pertaining to the concrete industry.

Ongoing initiatives for the Education Committee in the coming year include: monitoring the CIM programs' progress of the toward implementing recommendations by the visitation team as part of the industry accreditation; continuing to improve the quality of the CIM course offerings; and assessing how the CIM program can meet the North American concrete industry's future needs.

It is an exciting time to be involved in the concrete industry, preparing students for careers in the concrete industry of the future. The CIM faculty and staff are truly making a difference in the lives of our students; for this, we are most appreciative.



WE ARE PLEASED TO REPORT THAT DURING the 2014 – 2015 fiscal year, the National Steering Committee (NSC) recorded record revenues from industry sponsors and the World of Concrete auction totaling \$930,241. Total expenses for the year were approximately \$606,496. The single largest expense was ongoing support payments of \$400,000 to the CIM program universities. The net of revenues minus expenses resulted in an increase in reserves of approximately \$324,000. The increase in reserves was due primarily to increased auction revenues and under budget expenses.

As of June 30, 2015, the NSC had total assets of approximately \$1,636,000. These reserves could, if necessary, be used to satisfy any outstanding commitment the NSC has to the program universities through fiscal year 2015 - 2016. They will also serve as working capital to fund the activities of the NSC during the 2015 - 2016 fiscal year. The NSC is now in its strongest financial position since the inception of the CIM program. Consequently, the NSC is moving forward in addressing the concrete industry's growing needs for CIM graduates. In the fiscal year 2015 – 2016, the NSC will fund additional scholarships designed to increase new student entry into the program. In addition, there will be funds available for expanding the number of program universities. The current financial plan calls for the additional revenues generated from the 2016 auction at the World of Concrete to replenish the reserves to maintain a reserve or working capital fund at approximately the \$1.5 million-plus level. This is consistent with the NSC's current financial model that is reviewed and adjusted annually in conjunction with our long range plan.



**NICOLE
MAHER**

Chairman
Finance Committee

The NSC's Board of Directors recognize that, if the CIM program is to continue to be a resource for the concrete industry, the program universities will need ongoing support to maintain certain special aspects of the program. The sound financial management of the NSC, combined with the annual proceeds from the highly successful WOC auction, the continued support of industry associations and foundations, and the ongoing financial commitment of local concrete industry patron groups should ensure CIM is adequately funded for the future.

The following are financial highlights for fiscal year 2014 – 2015 vs budget:

		BUDGET	ACTUAL
Total Revenues		\$791,000	\$930,834
Cash Disbursements		\$765,875	\$600,496
Preliminary Increase/Decrease		\$71,500	\$289,185
Increase/Decrease in Cash		\$25,125	\$324,338
Audited Total Equity	6/30/14		\$1,312,680
Audited Equity	6/30/15		\$1,636,228



ALAN NEDZA

Chairman
Long Range
Planning
Committee

THE VISION OF THE CONCRETE INDUSTRY Management (CIM) program is to be a resource to provide the concrete industry with professional leaders for tomorrow. The mission is to develop, support, promote and sustain a network of higher learning institutions with programs that produce future professional leaders with degrees in concrete industry management. We represent a national, broad-based industry coalition in partnership with CIM institutions and local industry patron groups, dedicated to a collaborative process to accomplish this goal.

Our six strategic goals listed below are the main focus of the committee.

1. Determine the emerging market needs for CIM graduates regionally, nationally and internationally and ensure the network of institutions is sufficient to meet those needs.
2. Preserve and protect the value of the CIM brand.
3. Determine the scope and outreach of the CIM program.
4. Promote the use of the CIM university network to conduct coordinated research that benefits the concrete industry.
5. Determine the appropriate allocation of National Steering Committee (NSC) funds in support of the CIM program.
6. Determine the long-term goal and leadership succession of the NSC.

In support of some of these goals, the long range planning committee conducted a survey of concrete industry organizations for the purpose of estimating prospective annual demand for CIM program graduates, both regionally and by industry segment, to facilitate the ability of the National Steering Committee to manage the program's future growth and development. In total, 158 organizations were interviewed across 10 industry segments, representing approximately 97,860 full-time salaried employees.

Major Findings from the study

- Familiarity of the respondents with the Concrete

Industry Management program was somewhat mixed, so in the coming year, we will develop an outreach program that will increase the exposure of the CIM program.

- New graduates are anticipated to account for about 20 percent of all full-time hires over the next year.
- From a regional perspective, hiring of new graduates is anticipated to be the heaviest in the South Atlantic followed by the West South Central, Pacific, East North Central, and East South Central regions.
- More than half of the companies interviewed offer college internships (52 percent) which is a positive development.
- Respondents estimated that just over a third of the new graduates they hire in the next year – 36 percent – will be recruited from colleges and universities. This is a good sign for our program.
- 29 percent of respondents indicated that they had hired a CIM graduate in the past, though that percentage was significantly higher for the cement manufacturer (79 percent), supplier (50 percent), and ready-mix concrete producer (49 percent) segments than for the other segments.
- Of those that had not hired CIM graduates, the primary reasons given included lack of familiarity with the CIM program. The Long Range Planning Committee will address this with a communication strategy to increase exposure of the program.
- More than half of the respondents (56 percent) indicated that they are likely to hire a CIM graduate within the next five years.
- In regard to job function that CIM grads are most likely to be placed into, technical services and operations were the most likely, followed by project management.

The findings of this report will be utilized to prioritize the activities of the committee going forward and appropriate adjustments to the long range plan will be made to address some of the areas for improvement that were highlighted in this study.

DURING THE 2014-15 SCHOOL YEAR, THE Concrete Industry Management Marketing Committee focused on raising the visibility and awareness of the CIM program, the Executive MBA program, and the CIM auction. Several new marketing tools were developed to help promote the CIM program. As our committee increases overall awareness of the CIM program, we are helping educate prospective students about educational and career opportunities in the concrete industry.

CIM's marketing program is designed to reach a variety of targets, including the construction and concrete industries, the general media, the academic community, and potential students and student influencers. Our integrated marketing communications program includes:

- **Advertising:** We redesigned a series of print and web ads that have run free-of-charge in association and industry publications to help promote the CIM program and Executive MBA program to the concrete and construction industry. Several concrete industry associations, publications, and websites have generously donated print and online ad space to promote CIM.
- **Auction Support:** The committee remains an instrumental part of the annual CIM auction. We manage a number of activities to promote the auction, including: an auction-item solicitation tool, press releases, promotional collateral, advertisements, and web marketing.
- **Collateral and Promotional Materials:** The committee produced promotional materials to support the CIM brand, including brochures, graphics, and other materials. In addition, the committee produces the Annual Report and Executive Summary, developed to inform, educate, and update stakeholders on national and institutional activities. Further, the Annual Report serves as an important marketing tool for CIM.

- **Digital Media:** During the 2014-15 school year, we launched a new website for CIM at ConcreteDegree.com. The new site is built on a content management system (CMS) and has a responsive design to present a consistent experience on different browsers and devices. This also included a new blog and enhanced social media efforts. Our digital efforts also include adding interesting and relevant content, news, and tools. We continued our search engine optimization (SEO) initiatives and social media efforts.
- **Events & Trade Shows:** During the last year, CIM exhibited at the World of Concrete, The American School Counselors Association (ASCA) Show, NRMCA's annual meeting, Concrete Works, ACI's convention, ICRI's annual meeting, and several other national and local events.
- **Public Relations:** Public relations continues to be an important part of our marketing efforts. Our PR is focused on two primary areas: promoting the CIM programs to the industry and promoting CIM programs to students and influencers. In addition, we've promoted the CIM Executive MBA Program. The committee also continues to publish the CIM eNews six times per year, reaching more than 2,500 people with each edition. During the 2015 World of Concrete, we held a press conference for the media. We also work with the concrete industry trade associations to disseminate our message. For the last several years, CIM has worked with Constructive Communication, Inc. (CCI) on a proactive public relations campaign resulting in the distribution of more than 10 press releases and placement of more than 45 articles in industry publications such as *ENR*, *Concrete Construction*, *Concrete Producer*, *Concrete Technology Today*, *Concrete Repair Bulletin*, *Better Roads*, and *Concrete International*. Articles also had online coverage on websites such as ENR.com, Concrete Producer Online, ConcreteExecutive.com, ForConstructionPros.com, Concrete Construction Online, Construction EquipmentGuide.com, and AggregateResearch.com.



BRIAN GALLAGHER
Chairman
Marketing Committee



AUCTION COMMITTEE REPORT



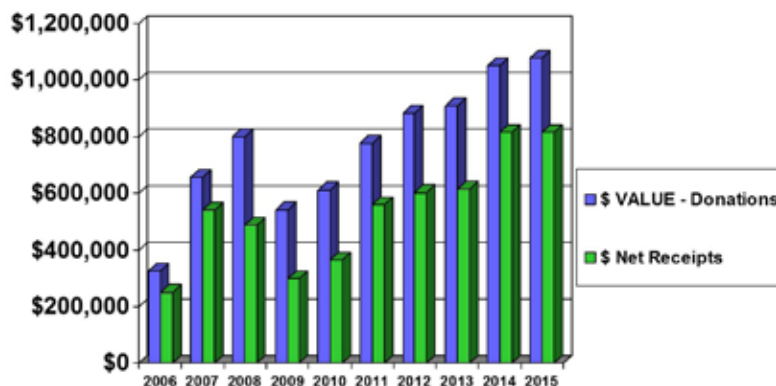
**MICHAEL
PHILIPPS**

Chairman
Auction Committee

THE 2015 CONCRETE INDUSTRY Management (CIM) Auction was a tremendous success. The annual auction was held in conjunction with the World of Concrete (WOC) in Las Vegas. Gross proceeds from the event were in excess of \$800,000. The CIM Auction Committee consisted of over 40 industry professionals that 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. Because of its strong nucleus of members, the committee has become increasingly effective and has developed a game plan to assure a successful auction. Once the 2015 auction was completed, the committee was hard at work on the 2016 auction.

Hanley Wood, The World of Concrete, and Ritchie Bros. Auctioneers have been tremendous partners for CIM. Without their commitment and support, the auction would not be possible. The World of Concrete management ensures that the NSC has the full support of the entire WOC staff. All of the 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 people who are not able to attend the auction. We are pleased to note that a significant percent of the live auction proceeds come from online bidders, a percentage that continues to increase each year.



The signature item of the 2015 Auction was a Mack Granite® Axle Forward concrete truck chassis mounted with a McNeilus 11-cubic-yard Bridgmaster® concrete transit mixer, donated by Mack Trucks, Inc. and McNeilus Co., a Division of Oshkosh Truck. The winning bidder was Ozinga Ready Mix Concrete of Chicago, IL.

This year, NSC partnered with GiveSmart — a user-friendly bidding technology service providing customized auction and event solutions primarily for non-profit organizations. With GiveSmart, participants were able to register for the auction, sneak preview silent and live auction items, make a donation, and bid on their favorite silent auction items immediately from mobile devices. Once again this year, participants who were not able to attend the live auction were able to bid online during the event.

We are also fortunate to increase the number of concrete industry companies that recognize the importance of the event to CIM and make donations. 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 auction include such high profile items as a ready-mix truck donated by Mack Trucks, a truck-mounted mixer donated by McNeilus, and a laser screed machine donated by Somero Enterprises. This year, we had an increase in contractor-related items. Other high profile 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 including trips to college and NFL football games, MLB baseball games, NBA basketball games, NHL Hockey games, the Rose Bowl, The Masters, The Kentucky Derby, golf at Sawgrass and the Indy 500. Further, there are a number of exciting vacation trips to Orlando, Cleveland, New Orleans, New York City, San Francisco, Chicago, Dallas, Nashville and San Antonio as well as luxury items like flat screen televisions, laptop and tablet computers, jewelry and more.

THE CIM PROGRAM AT MTSU IS READY TO start the third CIM MBA cohort in January 2016. This cohort will complete the degree requirements in March 2017. Currently, eight industry professionals have signed up for the program.

The cohort will be required to attend three face-to-face interaction sessions (about 2-3 days) with the faculty. During these sessions, the cohort will work closely with

the faculty and immerse in technical discussions. The first two visits will be on MTSU's campus in June and October 2016, and the last one will be in Las Vegas in 2017 in conjunction with the World of Concrete.

The total cost of the program is \$39,000 per participant.

The class schedule is as follows:

Course Name	Session	Semester	Start Date	End Date
Operations Management	Session 1	Spring 2016	1/19/2016	3/4/2016
Organizational Behavior	Session 1	Spring 2016	1/19/2016	3/4/2016
Managerial Economics	Session 2	Spring 2016	3/21/2016	4/29/2016
Financial Statement Analysis	Session 2	Spring 2016	3/21/2016	4/29/2016
Financial Analysis	Session 3	Summer 2016	5/30/2016	7/15/2016
Information Systems Management and Applications	Session 3	Summer 2016	5/30/2016	7/15/2016
Sustainable Construction	Session 4	Fall 2016	8/24/2016	10/9/2016
International Supply Chain Management	Session 4	Fall 2016	8/24/2016	10/9/2016
Marketing Management	Session 5	Fall 2016	10/19/2016	12/4/2016
Computer-Based Decision Modeling	Session 5	Fall 2016	10/19/2016	12/4/2016
Strategic Management	Session 6	Spring 2017	1/17/2017	3/3/2017
Troubleshooting Concrete Construction	Session 6	Spring 2017	1/17/2017	3/3/2017



AYAZ AHMED
Coordinator
CIM MBA Program



The CIM Executive MBA Degree Program

This 15-month customized MBA is offered through the Jennings A. Jones College of Business at Middle Tennessee State University (MTSU). It is a highly interactive online degree program that thrives on diversity of cultures with mutual benefit to participants and sponsoring companies. Major themes include leadership, operational excellence, strategy and execution.

- Research company specific issues and challenges and develop unique solutions.
- Develop a true understanding of forces that shape the concrete and construction industry.
- Develop leadership, team building and motivation skills to create synergy.

Now accepting applications for classes beginning January 2015. Apply online at www.mtsu.edu.

Learn more by contacting Ayaz Ahmed, Associate Professor and Coordinator of the MBA program at ayaz.ahmed@mtsu.edu, (615) 898-5715.



ANNUAL INSTITUTIONAL CIM PROGRAM REPORT 2014-2015



College of Engineering, Computer Science, and Construction
Management • O'Connell Technology Center 410
Chico, CA 95929-0003 • (530) 898-5963

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.



DR. TANYA KOMAS
CSUC CIM
Program Director

PROGRAM STATUS

The Concrete Industry Management (CIM) program at Chico State that was functioning as a pilot program has been approved as a permanent regular program effective fall 2015.

FACULTY PROFESSIONAL ACTIVITIES

Research Projects

Tanya Komaz & Tim Hostettler

- NASA Co2 conversion technology for use in the cement industry: Phase 1 Economic and Logistical Feasibility Study

Feraidon Ataie

- "Impacts of Curing Temperatures on Zinc Oxide (ZnO) Retardation Action in Concrete." Feb. 2015 to July 2015
- "Utilization of Rice Straw Fibers as Internal Curing Agent for Concrete" July 2015 to July 2017
- "Utilization of Rice Straw in Concrete" July 2015 to July 2017

Conference Presentations:

Tanya Komaz

- Concrete Evaluation, Preservation, and Repair at Two Important

Historic Sites: Pointe du Hoc, Normandy, France, and Alcatraz Island, San Francisco. ACI Convention, Fall 2014.

Feraidon Ataie

- Influence of Agricultural Residue Ash on Early Cement Hydration and Chemical Admixtures Adsorption. ACI Convention, Spring 2015.

Professional Affiliations/Services

Tanya Komars

- American Concrete Institute Strategic Development Council member
- International Concrete Repair Institute
 - Board of Directors
 - Evaluation Committee Chairman
 - Certification Committee – Co-authoring “Surface Repair Inspector Certification” – planned release to coincide with ACI Repair Code
- Education Committee member

Tim Hostettler

- ACI Northern California Chapter member

Scott Burghardt

- American Society of Concrete Contractors member
 - Emerging Youth Committee member
- International Concrete Repair Institute member
 - Education Committee member

Feraidon Ataie

- Associate Member, ASCE
- Member, American Concrete Institute (ACI)
- ICRI Education Committee member
- Reviewer, ASCE Journal of Materials in Civil Engineering
- Reviewer, Journal of Construction and Building Materials
- Reviewer, Journal of Cement and Concrete Composites

RECRUITMENT AND MARKETING ACTIVITIES

2014-15 Enrollments:

	2010- 2011	2011- 2012	2012- 2013	2013- 2014	2014- 2015
Enrollment (majors)	56	48	50	57	57

Graduates

Spring 2015: 14 graduates
Total graduates to date: 92

Patron and Student Recruiting Program

Chico State CIM patrons, together with the CIM program, began an aggressive outreach program to recruit students throughout California.

STUDENT RECRUITING EVENTS

- Faculty lectures in Chico State College of Business classes
- Faculty presentation to Butte Junior College Business class
- Butte Junior College business classes attend Chico State CIM internship and capstone presentations
- Program promotion at fall campus-wide recruiting event: Preview Day
- Program promotion at spring campus-wide recruiting event: Choose Chico Day
- Program promotion at California State FFA Career Fair
- Program promotion presentations at local high schools
- Program promotion at Higher Education Week in Imperial Valley, CA

STUDENT SCHOLARSHIPS AND AWARDS

Michelle Ahola:

California Precast Concrete Association \$500 (x2); FAFSA Middle Class Scholarship \$642; ICRI \$1,000; ASCC \$5,000; mikeroweWORKS Work Ethic Scholarship \$7,000

Jaymi Hill:

California Precast Concrete Association \$500; ICRI \$1,000; Lamon Memorial Scholarship \$1,000; Valley Contractors Exchange Scholarship \$1,000; Bob Weatherston Award & Scholarship \$2,500; ASCC \$5,000

Dylan Rapp:

CMACN \$7,000

Shane Strick:

ASCC \$5,000

Patron's Performance Scholarship:

Michelle Ahola, Daniel Amaya Salcido, Dymetrius Espinosa, Joshua Fenker, Jeremy Feske, Brandon Hatfield, Jaymi Hill, Cody Kreitzer, Christopher Mail, Dylan Rapp, Cezar Robles, Mariah Rutledge, Kirsten Springer, Shane Strick, Paul Teifel, Aaron Vogel
Patron's First-time Freshman Scholarship:
Conor Fleming, Claudia Martinez, Lemay Mitchell, Corinne Schneider, Joanne O'Hara

PROGRAM ACTIVITIES

Student Chapters

- American Concrete Institute Student Chapter

- Organized spring golf tournament
- International Concrete Repair Institute Student Chapter

Certifications

- ACI Field Testing Technician Grade 1
- ACI Flatwork Finisher
- International Concrete Repair Institute – Floor Moisture Testing Certification (2 students)

Field Trips

- A&A Concrete Supply batch plant, Chico, CA
- Lehigh Southwest cement plant, Redding, CA
- Sunpower Solar Energy, Chico, CA
- Sierra Nevada Brewery, Chico, CA
- Valley Contractors' Exchange, Chico, CA
- MCM Concrete's post-tension construction job site, Chico, CA

CIM Program Community Service Projects

- Bidwell Park, Chico: Assisted CM department with forming, placing and finished concrete for retaining wall around children's play area
- Durham High School: Placed and finished decorative concrete sidewalks and patio in school quad area
- Red Bluff Community Park: Placed and finished a decorative concrete slab for a future fountain and reflection pool

Student and Faculty Conference and Event Attendance

- American Concrete Institute, Washington, D.C. (2 faculty, 5 students)
- American Concrete Institute, Kansas City, MO (2 faculty, 3 students)
- American Concrete Institute's Strategic Development Council, San Francisco, CA (1 faculty, 1 student)
- American Society of Concrete Contractors, Denver, CO (1 faculty, 4 students)
- Command Alkon, New Orleans, LA (1 faculty, 4 students)
- International Concrete Repair Institute, Kansas City, MO (1 faculty, 1 student)
- International Concrete Repair Institute Committee Meeting, Chicago, IL (1 faculty, 1 student)
- International Concrete Repair Institute, New York, NY (1 faculty, 8 students)
- Sierra Nevada Concrete Association Conference (1 faculty, 3 students)
- World of Concrete (3 faculty, 1 administration, 2 staff, 12 students)
 - 2 students completed intensive week-long internships with companies
 - 1 student presented and earned top honor

PROGRAM SUPPORT

A message from our Patrons group chairman, Douglas K. Guerrero:

The Chico State CIM Patrons group celebrates its 10th year since its founding as a non-profit 401(c)(3) educational foundation. Our Patrons and Contributors now number 49 companies and 24 individuals that have continued wonderful support of the Chico State CIM Program with generous yearly donations.

The Patrons were very proud to see the seventh graduating class on May 16, 2015. We count our CIM graduates now at 92. These young men and women are enthusiastically working in the industry for which they have trained. We are very excited to see them in the workplace, and we do a good job of tracking them as they continue their careers. Many are already in supervisory positions, and the reports of their progress are outstanding. Our highest priority is now to grow our enrollment and boost our graduation rate to at least 30 to meet the growing demand from our industry.

Along with growing our student enrollment, the other important objective for the Chico State CIM Patrons is supporting a Sustainable Concrete Laboratory Improvement Project. Since our Patron's Committee represents the concrete industry, we feel an important task of our joint effort is to provide a university environment to carry on teaching as well as to conduct undergraduate research in concrete and concrete products. Worthy research will bring tremendous credibility and prestige to the CIM program at Chico State, as well as help relationships with the major specifying agencies such as CalTrans and other Western State DOTs, Department of Defense, Corps of Engineers, and the Bureau of Reclamation. A significantly improved and supervised Concrete Lab will serve as a better teaching facility and a respected university location to conduct concrete research necessary for our industry to improve and grow.

Our Patrons continue to meet twice a year on campus and enjoy spending time with the upcoming graduates as well as establishing relationships with younger students in the program who seek internship opportunities. Our Patrons especially look forward to seeing student presentations on their internship experiences during the fall Patrons' meeting, and senior Capstone presentations at the spring meeting.

Chico State CIM Patrons

- The Chico State CIM Patrons group celebrates its 10th year since its founding as a non-profit 401(c)(3) educational foundation.
- The organization now includes 49 companies and 24 individuals that have received more than \$2.3 million in donations, far exceeding the \$1 million dollars pledged when the program began in 2006.
- Patron-donated dollars have not only provided startup funds for the program, but also allowed the patrons to: award a significant

number of scholarships; provide travel for students to industry meetings; and purchase much needed lab equipment.

- Each year, CIM patrons provide \$2,000 scholarships for all new (freshmen and transfer) CIM students.
- \$1,500 scholarships for all qualifying sophomore CIM majors and \$2,000 for all qualifying junior/senior CIM majors.
- The Patrons chairman (Douglas K. Guerrero) represents the organization as a member of the Concrete Industry Management National Steering Committee, attending three NSC board meetings each year.
- The Patrons chairman and members of the organization regularly participate as guest lecturers in the classroom, provide industry field trips, and conduct campus tours for prospective and incoming students.

Chico State CIM Alumni Association

- Accepted Capstone project proposals and awarded \$2,000 in support of projects

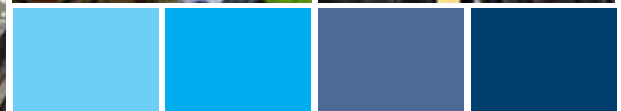
FINANCIAL INFORMATION

Chico State Income/Expenses 2014-2015

INCOME	Patrons	\$285,050
	Patron Scholarships	\$43,000
	National Steering Committee	\$100,000
	University	\$175,931
	Total Income	\$603,981

EXPENSES	Salaries	\$200,168.75
	Operating/Equipment	\$250,276.69
	Travel	\$73,773.48
	Patron Scholarships	\$43,000
	Total Expenses	\$567,218.92





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

ENROLLMENT AND GRADUATES

Program Enrollment:

	2010- 2011	2011- 2012	2012- 2013	2013- 2014	2014- 2015
Fall	306	259	155	187	149
Spring	303	226	178	190	143
MBA			8	6	0

Number of Graduates: 35 total

Fall 2014: 17 graduates
Spring 2015: 15 graduates
Summer 2015: 3 graduates

CIM PATRONS BOARD 2014-15

- President - Patrick O'Connell, Cemex Inc.
- Vice President - Nicholas Edwards, Kayln Siebert Inc.
- Secretary - Kell Harvey, JAT Oil, Inc.
- Treasurer - Daniel Bugbee, Garrott Brothers

FACULTY AND STAFF

- Dr. Heather J. Brown, Chair and Professor
- Dr. Marcus Knight, Associate Professor
- Dr. Zhifu Yang, Associate Professor
- Mr. Ayaz Ahmed, Associate Professor
- Mr. Jon Huddleston, Assistant Professor
- Mrs. Sally Bradford, Executive Aide
- Mrs. Nicole Green, Marketing and Recruiting Coordinator
- Mr. Jason Crabtree, Lab Manager

AWARDS

1. ACI Concrete Construction Competition 3rd Place Spring Convention
2. ACI Fellow – Dr. Heather J. Brown
3. 2015 Women In Business Leader Rutherford County – Dr. Heather J. Brown
4. Scholarships
 - Middle TN AGC Scholarship
 - BASF Scholarship
 - CIM Outstanding Seniors for both concentrations
 - Concrete Supply Scholarship
 - Dr. Earl Keese Scholarship
 - FRCA Scholarship
 - Georgia Concrete and Products Association Scholarship
 - H. Elton Cook Scholarship
 - Lehigh Hanson Scholarship
 - Maryland Ready Mixed Concrete Association Scholarship
 - Red Victory Scholarship
 - SIKA Scholarship
 - Southeast PCA Scholarship
 - Tennessee Concrete Association Scholarship
 - William Avery Scholarship
 - Woods Davenport Memorial Scholarship
 - NSC Industry Support Scholarship

STUDENT TRAVEL, 85 STUDENTS

Fall 2014

- ASCC Annual Convention, Denver, CO | 4 undergrads + Brown
- NRMCA Concrete Works, Indianapolis, IN | 5 undergrads + Knight
- Command Alkon Customer Conference, New Orleans, LA | 4 undergrads + Huddleston

Spring 2015

- World of Concrete, Las Vegas, NV | 22 undergrads + Brown, Bradford and Tennyson, CIM Intern
- The Precast Show, Orlando, FL | 4 undergrads + Ahmed
- National Ready Mix Concrete Association, Orlando, FL | 11

undergrads

- American Concrete Institute, Kansas City, MO | 3 undergrads + Brown
- Dayton Superior and Stephens Manufacturing Plant Tours, Dayton, OH and Thompsonville, KY (22 students + Brown, Huddleston and Crabtree)

Summer 2015

- Study Abroad Trip, Dominican Republic | 10 undergrads + Huddleston, Brown and Bradford

PUBLICATIONS

Peer Reviewed

- H.J. Brown, C. Walloch, D. Smith, ASTM C1781/C1781M – 14a, Standard Test Method for Surface Infiltration Rate of Permeable Unit Pavement Systems, ASTM C15, Published December 2014.
- R.R. Otter, B. Bachner, S. Gilson, J. Weatherly, H. Brown, J. P. DiVincenzo, Fly Ash Amended Pervious Concrete: A Laboratory Study on Removal Potential for Inorganic Contaminants, International Journal of Environmental Engineering, pending

Non-Peer Reviewed

- Brown, Heather J., “Advancing the Masonry Business by Degrees,” SMART dynamics of masonry v2.3 2014 pg. 40-41
- Brown, Heather J., “CIM Students Participate in Constructionarium,” Tennessee CONCRETE, Fall 2014
- Brown, Heather J., “CIM Welcomes Jason Crabtree to the Program,” Tennessee CONCRETE, Winter 2014
- Brown, Heather J., “Concrete Students Road Tour in Kentucky and Ohio,” Tennessee CONCRETE Summer 2015
- Ahmed, A., “How to Secure an Internship in the Precast Industry,” Precast Solutions, College Issue

JOURNAL REVIEWS

- Dr. Zhifu Yang: 04/03/2015, Thermal Aging, Kinetics and Mechanical Properties of Al-Mg Alloy, ACI Materials Journal.
- Dr. Heather J. Brown: Effect of Recycled Materials and Compaction Methods on the Mechanical Properties and Solar Reflectance Index of Pervious Concrete Construction & Building Materials, Construction and Building Materials, May 2015
- Dr. Heather J. Brown: Characterization of fiber reinforced pervious concrete composite through micromechanical modeling, Construction and Building Materials, January 2015
- Dr. Heather J. Brown: Strength Prediction Models for PVA Fiber Concrete, Journal of Materials In Civil Engineering, July 2014

UNDERGRADUATE RESEARCH

Total grant dollars requested: \$362,500

Total grant dollars received: \$132,500

Grants awarded

- Dr. Heather J. Brown: Received grants of \$100,000 from ASCC, \$10,000 from ACI, \$10,000 from RMC Research and Education Foundation to study effect of formwork on surface defects in concrete for ACI 347. Duration: 2014 – 2016
- Dr. Heather J. Brown and Mr. Ayaz Ahmed: Received \$12,500 to develop curriculum for Wirtgen America

CURRICULUM UPDATES

- Revised curriculum to include a higher level math for Concrete Contracting students and also added a cognate elective for Concrete Contracting
- Began to require all CIM students to take one CIM elective: CIM 3090, Computer Applications in Concrete and Construction; CIM 4400, Decorative Concrete; CIM 4500, Masonry; or CIM 4600, Design, Production, and Manufacture of Precast Concrete
- Added a required Mix Design Class for the Production, Sales & Service concentration
- Added new cognate electives for students to choose from
- Developed curriculum for Road Building courses
- Converted CIM 3300, Concrete Industry Internship to an online course and increased student requirements to include weekly journals and a presentation to other students, faculty and industry professionals

MARKETING/PROMOTION

- 25 students + Brown, Huddleston and Crabtree visited Dayton Superior in Dayton, OH and Stephens Manufacturing in Tompkinsville, KY for plant tours
- Study abroad trip to build concrete reef balls in Dominican Republic
- Took 6 students to tour the Nashville International Airport
- 48 students conducted internships around the country
- CIM students poured two pads and laid pavers as a class project near the Cyber Café on campus
- 50 students in CIM 3050 and CIM 3060 poured 170' long and 5' wide sidewalks for the Blackman High School athletic area that were ADA compliant.
- Students in senior lab poured a formed-concrete wall at the Guy James farm to research different methods to measure the area of air voids on concrete wall surfaces.
- Assisted 16 students with advising during priority registration for fall 2015 within the department through open advising with faculty
- Continued to teach resume development, networking advice and interviewing skills in CIM 4030 to develop "soft skills" in all CIM majors
- 266 jobs emailed to the department: 237 full-time, 29 part-time or internships.
- In 2014-15, 44 employers visited campus to recruit: 15 hosted

- company-sponsored dinners (socials), 23 companies interviewed 134 students, 21 employers and 75 students at the Fall Networking Event, 11 employers and 27 students participated in the Speed Interviewing Day
- 281 full-time jobs (237 emailed; 44 visits) and 33 graduating seniors = 8.5 jobs per student
- Fourth Annual Networking Event was held on 10/28/14 with 20 companies and 75 students attending.
- The second annual Speed Interviewing Day was expanded this year to include full-time interviews in the afternoon. Although snowed out, the first event scheduled on 3/5/15 was full with 18 employers and 11 more on a waiting list. When rescheduled on 4/9/15, nine employers interviewed 27 CIM students; six of the nine employers made nine hires from the event, including six internships and three full-time positions.
- Conducted hands on concrete activities with 15 high school students at ACE camp at MTSU
- Hosted CIM Senior Dinner the week of spring graduation to celebrate accomplishments with graduates and connect graduating seniors with industry professionals
- Crabtree: Taught workshop to Tennessee high school technical educators on math skills in concrete and construction
- Green: Introduced CIM to Tennessee technical educators at their annual conference in Nashville
- Conducted a hands-on concrete project with 45 high school juniors and seniors that were taking part in Youth Leadership Rutherford
- Conducted hands-on concrete projects for two groups of middle school students from Lead Academy in Nashville
- Conducted hands-on concrete projects and taught concrete basics to 6th graders from Kip Collegiate in Memphis
- Taught math and science skills relating to concrete to 60 elementary students for Camp PRISM
- Conducted hands-on concrete project with 80 students in middle and high school for MTSU Sampler Camp
- Presented concrete basics and departmental information to 40 community college faculty and staff for MTSU Community College Partner Day
- Participated in MTSU Alumni Summer College, teaching alumni the basics of concrete testing to older MTSU alumni
- CIM hosted the eleventh annual Building Campaign Golf Tournament on May 6, 2015. It was almost a full tournament with 34 teams (136 golfers), including more than 30 CIM alumni. Cemex donated \$15,000 and \$74,680 was raised.
- State Senators Jim Tracy and Bill Ketron stopped by the department to discuss a new CIM building, concrete pavement and job placement of graduates
- Maintained CIM Patrons' meetings each semester to raise donations for the annual CIM auction and to fund-raise for a new CIM building

SERVICE

- Brown: Conducted a community project to form a base for an Angels of Hope statue at Pinkerton Park, Franklin, TN
- Brown, Knight, Crabtree: Participated in 2nd annual ACE Camp at MTSU
- Brown: Science Olympiad mentor, spring 2015
- Knight: Served on board of directors for Masonry Institute of Tennessee; served as a masonry judge for the SKILLS USA competition.
- Green, Crabtree, Bradford: Presented and made concrete coasters with Youth Leadership Rutherford
- Crabtree, Brown: Skybox project for MTSU Athletics
- Department chair and recruiting coordinator conducted exit interviews with all graduating CIM seniors to get feedback on courses, experiences and faculty and to gather data for records or future job placement
- CIM offered open advising for seven days during priority registration in which students could choose times to meet with faculty advisors.
- Added resume critiques, networking advice and mock interviews to CIM courses in order to develop “soft skills” in all CIM majors
- CIM/Turner Construction tailgate for MTSU vs. WKU game
- Brown and Crabtree: Consultation about AMG pool leak
- Assisted students in finding full-time employment within the industry. From August 2014, December 2014, and May 2015 graduating classes, 22 of 35 graduating seniors had jobs at the time of graduation. Another nine found jobs within three months of graduation.
- Graduates had an average starting salary of \$45,886 (n=19).
- 32 students participated in undergraduate research in the CIM 4200 Senior Research class
- Successfully graduated the second Executive CIM MBA cohort.
- All CIM Staff: TCA Concrete Décor Show Awards Judging, Winter 2013, MTSU Campus, TN
- Expanding Your Horizons Teacher
- Cane Ridge High School Partner (Metro Career Academies)
- Mentored 8th graders in local Science Olympiad competition
- Organized 9th Annual Women in Concrete Luncheon
- CIM NSC Auction Committee member
- CIM NSC Long Range Planning Committee member
- CIM NSC Education Committee member
- ASCC Emerging Leaders Committee member
- ACI 522 Pervious Concrete Committee
- ASTM C09.49 Pervious Concrete Committee
- Brown: Holcim Gygi von Wyss Scholarship Selection Committee

JOB POSTINGS:

- 306 total positions emailed to the department (7/2014-7/2015)
- 257 full-time openings | 49 internships and/or part-time jobs
 - 64 positions in the state of TN (25%) | 140 positions in the southeastern U.S. (55%)

RECRUITING EVENTS

Company	Social Date	# Students	Interviews	# Students
Turner Construction	9/24/14	30		
W.R. Grace	10/20/14	27	10/21/14	7
Lithko Contracting	10/23/14	25	10/24/14	14
Oldcastle Precast	10/27/14	21	10/27/14	7
Vulcan Materials	10/28/14	34	10/29/14	11
CIM Networking Event with more than 20 industry leaders	10/28/14	75		
Holcim	11/4/14	32	11/5/14	10
Argos	11/5/14	37	11/6/14	14
Oldcastle Materials	2/10/15	20	2/11/15	10
Blue Dot Read Mix	3/4/15	9	3/4/15	3
Chaney Enterprises	3/16/15	15	3/17/15	2
Lithko Contracting	3/24/15	27	3/25/15	11
Vector Group	4/8/15	21		
Speed Interviewing with more than 11 industry leaders	4/9/15		4/9/15	27
Oldcastle Precast	4/13/15	10	4/13/15	5
Kiewit	4/23/15	28		
U.S. Mix			4/24/15	8
Rogers Group	4/28/15	14	4/28/15	5

FINANCIAL INFORMATION

INCOME	Patrons	\$115,004
	Scholarships	\$45,678
	National Steering Committee	\$100,000
	University	\$468,950
	Total Income	\$729,632

EXPENSES	Salaries	\$423,000
	Operating	\$130,671
	Travel	\$53,295
	Scholarships	\$45,678
	Total Expenses	\$652,644



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

ENROLLMENT AND GRADUATES

Program Enrollment:

	2013-14	2014-15	Net Change
Total Enrollment	83	105	+22

Number of Graduates:

Spring 2015: 9 graduates
Fall 2014: 3 graduates
Summer 2014: 4 graduates
Total: 16 graduates

NJIT CIM PATRONS BOARD

- Mrs. Jamie Gentoso – Director of Sales & Marketing, Sika Corporation
- Mr. Larry Silvi – President, Silvi Group Companies
- Mr. Bill Layton – Executive Director, New Jersey Concrete & Aggregate Association

SCHOLARSHIPS

The CIM national Patrons awarded \$25,000 in scholarships during the 2014-2015 academic year. The local Patrons matched it with another \$25,000 and collected an extra \$10,000 in scholarship money.

JOB PLACEMENT

- 100% of Fall, Spring and Summer 2014-2015 graduates looking for industry jobs have been placed.
- 15% of undergraduate students have concrete part-time/full-time concrete related jobs at the moment.

INTERSHIPS

Undergraduate internships were mentored by Dr. Mahgoub with the following companies:

- Silvi Group
- Sika
- Solidia Technologies
- Clayton
- Ferrara Brothers
- Structural
- Garden State Precast
- Jersey Precast
- Concrete Preservation Institute (CPI)
- Weldon Materials
- Arzee supply, a division of Allied Building Products
- Brean Stone Industries
- Hensel Phelps Construction Co.
- Hyde Concrete
- Pullman SST Inc.
- ANS Consultants Inc.
- Sysdyne Technologies, LLC
- Plainfield Municipal Utilities authority (PMUA)

STUDENT PROJECTS/CERTIFICATIONS

- ACI Field Testing Technician Grade I, provided by the NJ ACI Chapter
- ACI Concrete Construction Special Inspector (CCSI), provided by the NJ ACI Chapter
- ACI Concrete Competition "Bowling Ball," Washington, DC, Fall 2014
- ASCE Concrete Canoe Competition, Spring 2015
- ACI Eastern PA and Delaware Chapter Concrete Beam Competition, Spring 2015
- ACI Concrete Competition "FRP Composite Beam," Kansas City, MO, Spring 2015
- Concrete Preservation Institute (CPI), Alcatraz, San Francisco, CA, Summer 2015

AWARDS

- American Concrete Institute Excellent University of the Year Award 2014-2015
- 1st Place, ACI Eastern PA and Delaware Chapter Concrete Beam Competition, Spring 2015 (two teams, each team won the first place in one category of the only two categories offered)

INDUSTRY SPONSORED SOCIALS, GUEST SPEAKERS, AND FIELD VISITS

- NJ ACI Dinners and Golf outing
- Metro NY ICRI Dinners Golf outing
- New Jersey Concrete & Aggregate Association (NJCAA) Dinner
- The Port Authority of New York and New Jersey
- Sika
- Vector
- Silvi Group
- Solidia Technologies
- Weldon Materials
- Beyond Concrete
- Lafarge
- Collavino Group
- PCA
- Ferrara Brothers
- Titan America
- Holcim
- Resource Management Associates, RMA
- Buzzi Cement
- Bedrock Concrete
- Euclid Chemicals
- Garden State Precast
- US Stone

INDUSTRY ORGANIZATION SUPPORTERS

- American Concrete Institute (ACI)
- NJ ACI Chapter
- International Concrete Repair Institute (ICRI)
- Metro NY ICRI Chapter
- National Ready Mixed Concrete Association (NRMCA)
- New Jersey Concrete & Aggregate Association (NJCAA)
- National Precast Concrete Association (NPCA)
- Northeast Precast Concrete Association (NEPCA)
- American Society of Concrete Contractors (ASCC)

MARKETING ACTIVITIES

- Anlee Orama, the CIM specialist, focused on increasing enrollment, patron involvement, student participation, and more.
- Student enrollment has experienced the highest-ever increase. It increased from 83 students to 105 students. The spike in enrollment was mainly due to internal transfers, and community college students. CIM marketing materials are continually distributed in all applicable venues. CIM student participation in all events has been an influential factor in our success.
- Four newsletters have been electronically published and emailed. Hard copies were also distributed to the students interested in the

- program and during the two local Patrons meetings.
- CIM NJIT LinkedIn account has been created (<https://www.linkedin.com/grps/NJIT-Concrete-Industry-Management-CIM-8285784/about>)
 - ACI NJIT student chapter started a Facebook page (<https://www.facebook.com/NJITACI>)
 - ACI NJIT Student Chapter held four bake sales this year to increase the concrete awareness on campus. They also made coasters made out of concrete with their logo on it and distributed to NJIT faculty and staff. ACI NJIT student chapter also volunteers in several community services, and they held one blood drive. The chapter also sells Eat Sleep Pour Concrete T-shirts.
 - ICRI NJIT student chapters made medals made of concrete for the winners at ICRI Golf outing.
 - CIM is working now to enhance the website by adding a job data page, blog, and YouTube page.
 - For a senior project, CIM students poured a 6-ft.-high, 3-ft.-wide concrete rock (the symbol of Newark College of Engineering). The 2-ton rock was placed at the entrance of the main engineering building.

PROFESSIONAL ACTIVITIES

- Job and internship placements are still maintained at a 100% rate. An all-time record high for number of summer internships was set in 2014-2015. NJACI chapter continues to provide free ACI certifications to our students.
- The ACI student chapter participated in two ACI international competitions, and NJIT was named Excellent ACI University for 2014-2015.
- CIM students attended 10 conferences including ACI, ASCC, NJCAA, NRMCA, World of Concrete, NPCA, and ICRI.
- Two CIM students spent 12 weeks in the summer 2015 participating in concrete restoration efforts at Alcatraz Island, San Francisco, CA. NJACI chapter offered a \$25,000 grant to CIM students to investigate the 90-minute rule of ready mix.
- Dr. Mahgoub presented on CIM at a PCA Professors Workshop held in July 2015 in Skokie, IL.
- Dr. Mahgoub also traveled twice to Qatar and twice to Canada for his three-year research project of Structural Health Monitoring of concrete bridges. He included CIM in all his presentations.
- Dr. Mahgoub has been tenured and promoted to Associate Professor, effective September 1, 2014.
- Dr. Mahgoub has been appointed as a joint professor with the Department of Civil and Environmental Engineering, effective September 17, 2014.
- Dr. Mahgoub serves as a panelist on two national research council committees.

- Dr. Mahgoub is a reviewer for several reputable journals such as ACI Materials and Structural Journals, ASCE Bridge Journal, PCI Journal, and American Society for Testing and Materials (ASTM) International Journal.
- Dr. Mahgoub is an advisor of a Ph.D. student. Dr. Mahgoub was also the co-advisor of a master's student who defended his thesis in December 2015. The thesis is titled "Structural Health Monitoring of Bridges Using Wireless Sensor Networks."

PROGRAM SUPPORT

- The annual support from the national Patrons included an extra \$25,000 in scholarship money offered this summer for the first time.
- The annual support from the local Patrons included an annual benefit fund-raising dinner held in February. They have also matched the \$25,000 scholarship money offered by national Patrons.
- Scholarship programs available to CIM students include: Silvi Scholarship, Sika Scholarship, and CIM Northeast Patrons Endowed Scholarship.

PATRON INVOLVEMENT

Patron involvement with the CIM program continues to be the driving force of our success. Their unwavering support, sacrifice of time, and strong investment in the program cannot be thanked enough. A few examples of patron support are listed below.

- Offer CIM students internships, co-ops, and full-time jobs.
- Provide CIM students with a golden opportunity to network and a chance to better understand the career potential. This happens during conferences, socials, and organizational activities.
- Keep the students engaged and encourage and guide them as they progress through their studies by being mentors.
- Provide support to undergraduate concrete research through supplies, donations and guidance.
- Approximately \$35,000 in scholarship funds were distributed thanks to the local patrons.
- Allow plant tours, hold socials and offer guest lecturers and field visits.
- Host the bi-annual Northeast CIM Patron meetings.

RESEARCH

- Undergraduate: Calculated the percentage of fines in fine aggregate (sand).
- Undergraduate: Automated the concrete tests.
- Undergraduate: The 90-minute rule for ready-mix concrete. Is it the time for change?
- Undergraduate: New Insulated Concrete Blocks.

- Undergraduate: Recycled Aggregate Concrete.
- Graduate: Structural Health Monitoring Using Wireless Sensor Networks.

COMMITTEES

- Dr. Mahgoub is the chair of ACI Committee 555 (Concrete with Recycled Materials).
- Dr. Mahgoub is a member of the following American Concrete Institute (ACI) committees:
 - 130 (Sustainability of Concrete)
 - 342 (Evaluation of Concrete Bridges and Bridge Elements).
 - 343, (Concrete Bridge Design). This is a joint committee between ACI-ASCE (American Society of Civil Engineers).
 - 440 (Fiber Reinforced Polymer Reinforcement)
 - 555 (Concrete with Recycled Materials)
- Dr. Mahgoub is also a member of ASCE, PCI and ICRI.
- Finally, Dr. Mahgoub is the advisor of the ACI Student Chapter at NJIT and the ICRI Student Chapter (which was just founded in 2014)

PUBLICATIONS

Special Publications Chapters

- Mahgoub, M., and Salama A. (in-review). Chapter 4: Basis of Code Criteria for Transverse Live Load Distribution. Chapter of ACI special publication. Live Load Distribution for Existing Bridge Evaluation. American Concrete Institute, ACI, Committee 342: Evaluation of Concrete Bridges and Concrete Bridge Elements.
- Mahgoub, M. (in-review). Structure in Service. A Chapter of ACI special publication. Concrete Sustainability. American Concrete Institute, ACI, Committee 130C: Structures in Service.
- Mahgoub, M. (in-review). Removal and Reuse of Hardened Concrete. A Chapter of ACI special publication. American Concrete Institute, ACI, Committee 555: Concrete with Recycled materials.

Refereed Conference Papers

- Nita, G., Mahgoub, M., Sharyatpanahi, S., Cretu, N., and Elfouly, T. (2015). Higher Order Statistical Frequency Domain Decomposition for Operational Modal Analysis. Seventh International Conference on Structural Health Monitoring of Intelligent Infrastructure. July, 1-3. Torino, Italy.
- Mahgoub, M., and Baur, K. (in-review). An Innovative Precast Concrete Floor Panel System. Precast/prestressed concrete Institute (PCA) Convention and National Bridge Conference at the Precast Show. March 1-5, 2016, Nashville, TN.

Refereed Journal Papers

- Sharyatpanahi, S., Mahgoub, M., Saadeghvaziri, M., and Elfouly, T. (submitted, September, 2015). A Preliminary Study on Structural Health Monitoring of Bridges Using Wireless Sensor Networks. Surveying and Land Information Science Journal (SaLIS).
- Mahgoub, M. and Jamali, A. (in-review). Behavioral Model for Recycled Aggregate Concrete under Axial Compression. Special publication. Concrete with Recycled Materials. American Concrete Institute, ACI, Committee 555: Concrete with Recycled materials.
- Mahgoub, M., Saad Al-Din, A., Razik, M., and Khairallah, (in-review). F. Seismic Retrofit of Reinforced Concrete Shear Walls Using Carbon Fiber Reinforced Polymer (CFRP). Journal of Composite Materials.

Professional Presentations

- Mahgoub, M. (2014). Structural Health Monitoring (SHM) Using Wireless Sensor Networks (WSN). ACI Committee 444, Structural Health Monitoring and Instrumentation, ACI Annual Conference. Washington, DC.
- Mahgoub, M. (2014). Al-Rayyan Interchange Health Monitoring Using Wireless Sensor Networks, Part One: Finite Element Analyses for the Six Span Bridge. Qatar University, Doha, Qatar.
- Mahgoub, M. (2015). Seismic and Structural Properties of Recycled Aggregate Concrete. Strategic Development Council (SDC) of American Concrete Institute (ACI), St. Louis, MO.
- Mahgoub, M. (2015). Integrated Multi-sensor Monitoring Systems for Sustainable Concrete-based Infrastructure Assets. National Ready Mixed Concrete Association (NRMCA) Sustainability Conference. Miami, FL.
- Mahgoub, M. (2015). Hybrid OR_MS and GIS to Optimize Ready-mix Concrete Deliveries. National Ready Mixed Concrete Association (NRMCA) Sustainability Conference. Miami, FL.
- Mahgoub, M. (2015). Using Wireless Sensor Networks to Monitor Concrete Bridges. Portland Cement Association (PCA) Professors Workshop. Skokie, IL.
- Mahgoub, M. (2015). Concrete Industry Management and Sustainability. New Jersey Tech Council (NJTECH) Summer Intern and Research Program. Edison, NJ
- Mahgoub, M. (2015). Health Monitoring Using Wireless Sensor Networks, Finite Element Analyses. Concordia University, Montreal, QC, Canada.

AWARDED PROPOSALS

Main Research:

Structural Health Monitoring Using Wireless Sensor Networks

Awarded Grant:

\$1.05 million - Awarded by Qatar National Research Fund (QNRF)
Distributed by two universities (NJIT and Qatar University)

Effective Start/End Dates:

May 1, 2014 - May 1, 2017

Main Research:

Evaluation of the 90-Minute Rule as an Acceptance Criteria
Considering Current Concrete Mix Design Technology and Mix
Constituents

Awarded Grant:

\$20,000 - Awarded by ACI NJ Chapter

Effective Start/End Dates:

August 1, 2015 – August 1, 2016

FINANCIAL INFORMATION

INCOME	Northeast Patrons	\$75,000
	National Steering Committee	\$125,000
	University <i>(in-kind, not included in total)</i>	\$50,000
	Scholarships	\$10,000
	Total Income	\$260,000

EXPENSES	Salaries	\$15,000
	Operating	\$120,000
	Travel	\$60,000
	Patron Scholarships	\$60,000
	Total Expenses	\$255,000





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.



DR. JOHN SCHEMMELE
Texas State
Program Director

ENROLLMENT DATA

	Fall 2009	2009- 2010	2010- 2011	2011- 2012	2012- 2013	2013- 2014	2014- 2015
Texas State University	30,803	29,275	31,015	31,987	32,124	33,054	34,277
Department of Engineering Technology	438	388	442	495	516	574	635
CIM Program	14	21	42	55	50	48	42

Number of Graduates

Fall 2014: 6 graduates
Spring 2015: 3 graduates
Summer 2015: 1 graduate

FACULTY ACTIVITIES

Faculty Update

Dr. Jiong Hu was promoted to Associate Professor and granted tenure in September 2015. Further, Dr. Hu received the Presidential Distinction for Excellence in Scholarly/Creative Activities award and a College Achievement Award for Excellence in Teaching. Unfortunately, in summer 2015, Dr. Jiong Hu announced that he would be leaving Texas State and the CIM Program to join the Civil Engineering faculty at the University of Nebraska-Omaha as their concrete materials expert. The students, faculty, and staff of the CIM Program and Department of Engineering Technology thank Dr. Hu for his contribution to building the CIM program at Texas State University as well as his commitment and dedication to all students.

Dr. Anthony Torres received the Program for Excellence in Teaching and Learning award.

Dr. Yoo Jae Kim successfully completed training to become a certified trainer for ACI's Adhesive Anchor Installer certification program. There are now twenty-six individuals in Texas who are ACI certificated Adhesive Anchor Installers. Dr. Kim was also an instructor for the Renewable Energy Research & Education Training Program at Texas State University, May 18 - 22, 2015

New and Ongoing Research

- Ge, Z. (PI) and Hu, J. (Co-PI), "Rheology and Shrinkage Study of SCC with Recycled Fine Aggregate as Internal Curing Agent," National Science Foundation of China, \$133,546; January 2015 - December 2018.
- Hu, J. (PI) and Kim, Y. (Co-PI), "Feasibility Study of Using Micro- and Nano- Clay as Additives in Concrete," Texas State University Research Enhance Program (REP), \$8,160; January 2015 - December 2015.
- Kim, Y. (Co-PI), "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 - August 2017.
- Lee, S. (PI), Humphries, E. (Co-PI), Hu, J. (Co-PI), and Kim, Y. (Co-PI), "Improved Crack Sealant Application Methods," Texas Department of Transportation (TxDOT) (RTI 0-6832), \$229,640; September 2014 - August 2017.
- Kim, Y. (PI) and Torres, A. (Co-PI), "Concrete Based on Portland Limestone Cement with Limestone Content Greater Than 15%," Capital Aggregates Inc., Austin, TX, \$30,000; June 1, 2014 - May 31, 2015.
- Torres, A. (PI), "Optimizing The Effect of Foundry Waste on the Performance of Concrete," Concrete Industry Management (CIM) Patrons, \$6,000; May 1, 2015 - April 30, 2016.
- Torres, A. (PI), "The Effect of Gravity on Material Properties," Utah

State University Research Foundation - Space Dynamics Laboratory, North Logan, UT, \$286,198; June 1, 2014 - May 31, 2016.

- You, B. (PI), Kim, Y. (Co-PI), Song, I. (Co-PI), and Hu, J. (Co-PI), "Assembly Tolerance Analysis for the Development of a Gas Turbine Rotor Stacking Software," KEPCO Plant Service & Engineering (KEPCO-KPS), \$72,726; March 2013 - September 2014.

Publications

- Gomez, J., Conner, T., Song, I., Kim, Y., and You, B., "Mold Filling Analysis of an Alignment Structure in Micro Hot Embossing," *Fibers and Polymers*, Vol. 15, No. 6, 1197 - 1201. DOI 10.1007/s12221-014-1197-5.
- Kim, Y., You, B., and Sriraman, V., "Behavior of Confined Concrete with Variable Crack Angle - Part I," *Magazine of Concrete Research*, Vol. 66, Issue 21, 1075 - 1083. 10.1680/mac.14.00012.
- Kim, Y., Sriraman, V., and You, B., "Behavior of Confined Concrete with Variable Crack Angle - Part II," *Magazine of Concrete Research*, Vol. 66, Issue 19, 967 - 974. doi:10.1680/mac.14.00013.
- Kim, Y., Kim, H., and Lee, S., "Stiffness Prediction of Recycled Aged CRM Binders Using an Artificial Neural Network," *International Journal of Pavement Research and Technology*, Vol. 7, No.1, 9-17.
- Kotwal, A., Kim, Y., Hu, J., and Sriraman, V., "Characterization and Early Age Physical Properties of Ambient Cured Geopolymer Mortar Based on Class C Fly Ash," *International Journal of Concrete Structures and Materials*, August 2014.
- Hu, J., Wang, K., and Bektas, F., "Monitoring of Joint Cracking Development in Concrete Pavement with Concrete Embedment Strain Gages," *ASCE Geotechnical Special Publications on Sustainable Civil Infrastructures: Innovative Technologies and Materials*, GSP 246, July 2014.
- Ortiz, A., Asiabanpour, B., Jimenez, J., Aslan, S., Salamy, H., and Kim, Y., "Engaging Students in Environmental Learning and Awareness of Green Design Technologies and Careers through a Pre-Engineering Program," *ASEE Annual Conference*, 2015.
- Torres, A. and Barr, R., "A quantitative characterization of micro-gravity and unit-gravity processed ZBLAN glass," *Materials Characterization*, Volume 107, September 2015, 386-397, ISSN 1044-5803.
- Torres, A., Hu, J., and Ramos, A., "The Effect of the Cementitious Paste Thickness on the Performance of Pervious Concrete," *Construction and Building Materials*, Volume 95, October 2015, 850-859, ISSN 0950-0618.
- Torres, A. and Vedaraman, S., "Peer-Teaching in Construction Project Management Scheduling Software," *Proceedings of ASEE's 122nd Annual Conference and Exhibition*, June 14 - 17, 2015.
- Torres, A. and Vedaraman, S., "Project Based Learning in Concrete Industry Project Management," *Proceedings of ASEE's 122nd Annual Conference and Exhibition*, June 14 - 17, 2015.

Presentations

- Kim, Y., "Composite Insulated Precast Wall Panels with Shear Transfer Provided By Carbon Fiber Grid," Korea Institute of Construction Technology (KICT), Ilsan, South Korea, July 7th and July 24th, 2015.
- Torres, A. and Vedaraman, S., "Peer-Teaching in Construction Project Management Scheduling Software," ASEE, 122nd Annual Conference and Exhibition, June 14 - 17, 2015.
- Torres, A. and Vedaraman, S., "Project Based Learning in Concrete Industry Project Management," ASEE, 122nd Annual Conference and Exhibition, June 14 - 17, 2015.

Professional Affiliations

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

- American Concrete Institute
 - 130 Sustainability of Concrete
 - 237 Self-Consolidating Concrete (Voting Member)
 - 238 Workability of Fresh Concrete (Voting Member)
 - 238-0A Student Workability (Chair)
 - 555 Concrete with Recycled Materials (Secretary)
 - S801 Student Activities (Voting Member)
 - S803 Faculty Network
- Transportation Research Board
 - AFN20 Properties of Concrete
 - AFN40 Concrete Materials and Placement Techniques
- TxDOT Research Management Committee Technical Advisory Panel
 - RMC 1 Construction and Maintenance
 - RMC 5 Structures and Hydraulics

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

- ACI-CRSI Adhesive Anchor Installer Certification
- Precast/Prestressed Concrete Institute
 - Seismic Design Committee
 - Industry Design Handbook Committee
- TxDOT Research Management Committee Technical Advisory Panel
 - RMC 5 Structures and Hydraulics

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

- American Concrete Institute
 - Fellow, 2000
 - Certification Award, 2011
 - SOC Scholarship Council
 - C610 Concrete Field Testing Technician
 - C601-G SCC Certification Program Development (Chair)
 - S805 Collegiate Concrete Council (Chair)

- ASTM International
 - C09 Concrete and Aggregates
 - C 09.40 Ready-Mixed Concrete
 - C 09.47 Self Consolidating Concrete (Chair)
 - C 09.60 Testing Fresh Concrete
 - C 09.61 Strength Testing
 - C 09.90 Executive Sub-committee
 - C 09.93 Symposia, Workshops and Research (Chair)
- American Society of Civil Engineers
- American Society for Engineering Education
- Texas Concrete and Aggregate Association
 - Education Committee

Dr. Torres is a member of the following organizations:

- American Concrete Institute
- American Society of Civil Engineers

Recruitment and Retention

During the year Dr. Schemmel:

- visited eight high schools in Texas, meeting with more than 250 students
- met with representatives from 15 concrete related companies with offices or headquarters in Texas
- spoke to 13 Texas chapters or committees of various professional associations
- met with Texas State University recruiters to educate them about the CIM program
- began working with the Texas Veterans Commission to educate individuals in transition to civilian life about the CIM program
- was the keynote speaker at the graduation ceremony of students in the construction program at Crockett High School in Austin, TX.
- spoke at the Texas Mining and Reclamation Association summer teachers workshop
- met with nearly 60 individuals and groups regarding the CIM program

Other Faculty Activities

- Dr. Hu attended both ACI conventions and the Transportation Research Board annual meeting in Washington, D.C.
- Dr. Hu and Dr. Schemmel attended the NRMCA International Concrete Sustainability Conference held May 11 - 13, 2015 in Miami, FL.
- Dr. Kim served as the student advisor for the 9th Annual Undergraduate Research Conference and Honors Thesis Forum at Texas State University, April 14, 2015.
- Dr. Schemmel attended one or more conventions of six national or international organizations (ACI, ASTM, ICPI, NCMA, NPCA, NRMCA). In addition, Dr. Schemmel was invited to serve as a consultant to the ICPI education committee and the

NPCA foundation. Further, Dr. Schemmel is working with ACI and ASTM on the development of a new certification program for self-consolidating concrete.

- Dr. Schemmel and Dr. Torres met with several representatives of the TxDOT to discuss research and contract study opportunities. Dr. Schemmel and Torres also toured the TxDOT material laboratories.
- Dr. Schemmel serves as the technical advisor to Mr. Ash Kotwal who is a MSEC doctoral candidate.

STUDENT ACTIVITIES

Scholarships

- The ACI San Antonio chapter awarded \$1,500 scholarships to Alex Burkhart, Amy Ramos, and Cole Pilgrim. The ACI Central Texas chapter awarded \$2,000 scholarships to Alex Burkhart and Cole Pilgrim.
- The ICRI South Central Texas chapter awarded \$1,250 scholarships to Alex Burkhart, Cole Pilgrim, and Brian Ledsinger. The NPCA Foundation awarded a \$2,500 undergraduate scholarship to Alex Burkhart.
- The Texas State CIM Patrons awarded scholarships ranging from \$1,000 to \$3,500 to Alex Burkhart, Braden Byrd, Chase Hubbert, Jake LaLanne, Brian Ledsinger, Cole Pilgrim, Amy Ramos, Justin Sullivan, Ramon Vargas, Declan Ward at the department's Awards Day. The Patrons scholarships totaled \$14,900.

Events

- The ACI student chapter, with assistance from the CIM program, hosted its first skeet shoot fundraiser at the National Shooting Complex in San Antonio, TX on August 29, 2014. The ACI students raised more than \$7,000 and helped promote the CIM program to the Texas concrete industry.
- CIM Patron Victor Bretting, of AUI Contractors in Fort Worth, TX, hosted a CIM recruitment social at a local restaurant on September 2, 2014.
- The Texas State CIM program was a sponsor for the joint TxDOT and Cement Council of Texas (CIT) Concrete Conference held September 29 - 30, 2014 in Austin, TX.
- Six CIM students and Dr. Schemmel attended the World of Concrete in Las Vegas, NV in February 2015.
- Alex Burkhart received the second prize at the first CIM presentation competition held as part of the World of Concrete in Las Vegas, NV.
- Alex Burkhart and Amy Ramos joined Dr. Schemmel in attending the NRMCA Annual meeting February 28 - March 3, 2015 in Orlando, FL. The group was joined in Orlando later in the week by Dr. Kim and Brian McAshan for the NPCA Precast Show held March 4 - 7, 2015.

- Amy Ramos and Dr. Schemmel represented the CIM Program at the Texas Veterans Career Fair and Information Village held March 19, 2015 in San Antonio, TX.

Student Projects

- In October 2014, several Texas State CIM students attended the ACI Convention in Washington, D.C. with Dr. Hu and Dr. Schemmel. Amy Ramos, Alex Burkhart, Cole Pilgrim, and Brian Ledsinger represented Texas State in the Mortar Workability competition, taking first place. This was the first time a Texas State CIM team had won any major student competition. Alex Burkhart and Amy Ramos also competed in the Egg Protection Device competition. Dr. Hu served as faculty advisor for both teams. Justin Dickey also attended.
- Students in CIM 4310 Senior Lab made presentations on their respective projects. Topics included: Blended Portland Limestone Cement Concrete: Properties and Cost Analysis; Sustainability Pursuit: Alternative Recycled Glass Aggregates in Mortar; Rice Husk Ash as Replacement for Cement in Concrete and Comparisons with Fly Ash; Fiber-Reinforced Pervious Concrete; and The Effects of Limestone Powder Replacement in SCC.
- Students in CIM 3330 Concrete Construction Methods 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; and High- Performance Concrete and Sustainability.
- Students in CIM 3340 Understanding the Concrete Construction System worked on an actual concrete rehabilitation project previously completed by Gaeke Construction. Mr. Robert Gaeke, President of Gaeke Construction, presented an overview of the project.
- Students in CIM 4340 Concrete Problems: Diagnosis, Prevention, and Dispute Resolution made presentations on their respective case studies. Faculty and Patrons served as evaluators of the projects. Topics included: Assessing the West Uhland Bridge; Concrete Repair of Structural Beams; and Sagewood Retention Wall Detrition.
- Zachary Schroeder participated in the 9th Annual Undergraduate Research Conference and Honors Thesis Forum held April 14, 2015 at Texas State. Dr. Kim served as advisor.
- In April 2015, the 3rd Concrete Art Craft and High-Strength Concrete Competition was hosted at Texas State. This competition is a requirement of CIM 3420 Fundamentals of Concrete: Properties and Testing.
- In April 2015, eight Texas State CIM students took the ACI Field I Certification exam in Texas State's concrete lab. To date, six of the students have become certified. The ACI Central Texas Chapter assisted with the administration of the exam.

Other Student Activities

- Eight CIM students completed their internships in summer 2015. Student took positions with JE Dunn, Smith Midland, Raba Kistner Consultants Inc., Old Castle Precast, Lehigh Hanson, Archer Western, Capitol Aggregates, and Western Construction Group.

PATRONS AND INDUSTRY ACTIVITIES

- Texas State Patrons Board met on September 17, 2014, November 19, 2014, February 27, 2015 and April 24, 2015 in San Marcos, TX.
- Earl Ingram (Ingram Ready Mix) and Victor Bretting (AUI) made presentations in CIM 3330 Concrete Construction Methods, Robert Gaeke (Gaeke Construction) made a presentation in CIM 3340, Chris Lechner (PCMA), Dr. Derek Cong (WJE), and Riley Bench (Fluor) made presentations in CIM 4310 Senior Lab, Dan Wicht (Western Construction), Brian Schwab (BASF), and David Frink (Proso) made presentations in CIM 4340 Concrete Problems.
- Victor Bretting (AUI), Dan Wicht (Western Construction), Carlos Cerna (Manco Structures), Marvin Bragewitz and Mike Delgado (Texas Lehigh Cement) were guest speakers for the ACI Student Chapter.
- Boral (San Antonio, TX), Manco Structures (Schertz, TX), and Texas Lehigh Cement (Buda, TX), hosted CIM students at tours of their facilities.
- The Construction and Concrete Industry Career Fairs were held on October 9, 2014 and February 12, 2014. More than 70 companies attended each fair. Old Castle Precast, Argos, and Lehigh Hanson held information sessions for the students prior to the fairs.
- On January 7- 8, 2015, the Texas Concrete and Aggregate Association held its annual TACamp professional development program at Texas State in the RF Mitte building. Amy Ramos, Alex Burkhart, and Kevin Robbins participated in the Advanced Class, having taken the beginners class in 2013.
- The National Concrete Masonry Association provided the Texas State CIM program with an information booth as part of its joint meeting with the Interlocking Concrete Pavement Institute meeting held February 15 - 20, 2015 in San Antonio, TX.
- On May 1, 2015, thirteen students and two teachers from the Harmony school in San Antonio, TX toured the Cemex quarry in New Braunfels, TX.
- On June 11, 2015, several students and teachers from the BETA (Business, Engineering, and Technology Academy) School in Edinburg, TX toured the Martin Marietta cement plant in New Braunfels, TX.
- Capitol Aggregates and Boral Material Technologies, both of San Antonio, TX, each donated a mixer to the CIM program. Also, between semesters, university facilities coordinated the construction of three outside aggregate storage bins. Finally, the interior of the concrete laboratory underwent a major

reorganization during the summer. Various pieces of new equipment were purchased for the laboratory.

OTHER NEWS

- The Texas State CIM Program served as a sponsor for the TACA Short Course on March 24 - 25, 2015 in College Station, TX and the TACA Annual Meeting on 24 - 26, 2015 in San Antonio, TX.
- For the fifth year in a row, the Texas State ACI Student Chapter was recognized as an ACI Excellent University. The Texas State chapter was one of 15 student chapters that received this award in 2014. Texas State is one of the only five chapters, and the only CIM program, that has received the Excellent University award every year since its inception in 2010. The chapter was recognized at the ACI Spring Convention in Kansas City, MO on April 12, 2015.
- The ACI Student Chapter elected officers for the 2014-2015 academic year. Officers are Cole Pilgram (President), Braden Byrd (Vice President), Lance Cain (Treasurer), and Amanda Amaya (Secretary). Dr. Schemmel will serve as the Interim faculty adviser for the 2015 - 2016 academic year.

FINANCIAL INFORMATION

INCOME	National Steering Committee: Operating	\$80,000
	National Steering Committee: ISSF Scholarships	\$25,000
	Texas State Patrons: General Income & Workshops	\$10,100
	Texas State Patrons: ISSF Scholarships	\$12,000
	Texas State: CIM Departmental Operating Budget	\$66,500
	Texas State: CIM Faculty Salaries	\$440,540
Total Income		\$634,140

EXPENSES	National Steering Committee: Operating	\$72,318
	National Steering Committee: ISSF Scholarships	\$11,250
	Texas State Patrons: Operating	\$26,955
	Texas State Patrons: ISSF Scholarships	\$11,250
	Texas State Patrons: CIM Annual Scholarships	\$14,900
	Texas State: CIM Departmental Operating Budget	\$66,500
Total Expenses		\$643,713

I discovered
that I have a lot
to learn still and
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the mistakes
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make them.



ALEX BURKHART,
TEXAS STATE
UNIVERSITY

What was your internship position and responsibilities?

I worked for Smith Midland as a Project Manager. I was in charge of handling one project that included everything from working with production to schedule when panels would be produced, checking drawings from engineering, working with the customer, and scheduling deliveries with the shipping department.

How did you find out about this internship?

I went to the National Precast Concrete Association Precast Show in Orlando, Fla. looking for internships or possible leads for future employment. I talked with many company owners at the show and had several offers for internships.

Why did you choose this internship?

I had many different internship offers from around the country. I chose Smith Midland because I had talked with the owner Ashley Smith in great detail about what his company does and what he would like for me to do. I had decided that the internship opportunity with Smith Midland was the best chance to learn the most about the precast industry and sounded like it

was a good place to work with opportunity to grow.

What skills and concepts did you learn about the concrete industry?

At Smith Midland, we focused a great deal on lean manufacturing and continuous improvement on the process. I learned how important it is to plan up front on a project and to follow the plan. I also learned how to work with multiple departments to make sure we are working for the best interest of our customers. Finally, I have a much better understanding of how the precast process works from start to finish.

Through this internship experience, did you learn anything new about yourself?

I discovered that I have a lot to learn still and that the older generation wants to help me learn from the mistakes they made so that I don't make them. I also discovered that I should not worry what my coworkers might think of my suggestion, that I might have an idea that they haven't thought of and that it might be a better idea.

What advice would you give to current CIM students who are looking to apply for internships?

Companies want to bring students into their place of business to show them what they do and want to form a relationship with them. This way they are in a better position to potentially hire the student when they graduate. This is a benefit to the intern also because they are familiar with how the company works, and if they have impressed the company during the internship, the company could likely offer them a position.



**ERICA
JOHNSON,
NJIT**

who are looking to apply for internships?

Go out there and dive right in. If you are willing to put yourself out there and are open to learning, people in this industry are willing to help. It's not about how much you already know, but how willing you are to be taught.

What skills and concepts did you learn about the concrete industry?

I have learned how to handle myself in a business setting and seen parts of the industry I would have never experienced in a class room setting. I have been able to sit on target market meetings, trade show planning meetings, worked on various projects that helped the sale of our products. I have such pride when explaining to people what I do and the experience I have had working at Sika.

How did your internship experience help you develop a career in the concrete industry?

It really helped me understand how much work this industry does. People in the concrete industry work long, hard hours to ensure their products meet and exceed consumer expectation. Without my internship experience, I would not have been able to comprehend that.

What is your current internship position and responsibilities at Sika Concrete and Waterproofing?

I am the Sika Concrete and Waterproofing marketing intern. I have assisted in the transition of all our documents into the Global Harmonization Standard which was mandated by OSHA. I work with tradeshow logistics, website administration, and overall graphic needs for the concrete and waterproofing division. Originally planned as a summer internship which began in June, 2014, I have been fortunate to continue with it for the past year and plan to continue it into the fall of my final semester.

How did you find out about this internship?

I attended the bi-annual Concrete Industry Management Patron's meeting after joining the program.

Why did you choose this company?

I choose Sika because of their well respected reputation, as well as its strong foundation in the construction industry, which has now spanned more than 100 years.

What advice would you give to current CIM students

People in the concrete industry work long, hard hours to ensure their products meet and exceed consumer expectation. Without my internship experience, I would not have been able to comprehend that.

As a woman, I feel privileged to be in a major where women are a minority. We may be a minority, but I am proud to say that so far I have been treated with the same respect a man in the industry receives.



**CLAUDIA MARTINEZ,
CALIFORNIA STATE
UNIVERSITY CHICO**

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

I am currently attending California State University Chico. This fall is my first semester as a sophomore, and I am expected to graduate May of 2018.

Where are you from originally?

I was born in Michoacán, Mexico, but moved to the United States at the age of five. I was raised in a small agricultural town in northern California named Live Oak. Located about an hour north of Sacramento, Live Oak is a small town, rich in diverse cultures.

Why did you choose this university and the CIM program?

I chose Chico State because it's known to have one of the best nursing programs in California. I began as a pre-nursing major, and within a semester I figured it was not meant to be. I later chose to pursue a major that was different. I wanted something different — different enough where I could make a difference. I first heard about the program through my educational opportunity advisor after a career fair held on campus. I was enthusiastic by all the program had to offer. I finally came to a

decision and changed my major to Concrete Industry Management. I was even more excited to know I'd be one of the few girls in the program, and with that came a passion to recruit more girls to the program. I knew from the beginning that CIM was a male-dominated major, but it was not something I feared. As a woman, I feel privileged to be in a major where women are a minority. We may be a minority, but I am proud to say that so far I have been treated with the same respect a man in the industry receives.

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

The CIM program began preparing me for my entrance into the business world since my freshman year. Through the program, I have been able to network and meet the individuals I know today. Every time I attend a conference I have met someone new, which is something I am grateful for.

What classes have you enjoyed the most? The least?

My favorite classes have been Introduction to Concrete, along with Fundamentals of Concrete Properties and Testing. The introduction to concrete class sold me. I was amazed by the fact that concrete is everywhere! I am currently taking the Fundamentals of Concrete, and it's one I look forward to the most. I love learning about concrete, and I am excited for all that awaits.

What advice would you give to other current CIM students?

The number one advice that I'd like to give to other current students would be to stay involved, and make yourself known. Make yourself known amongst your peers, as well as professional staff because at the end of the day it's who you know that will help you get to the peak of your career. I would also recommend that CIM students join clubs and attend conferences. I personally have met a few people who I now consider close at an ACI convention in Missouri. It was through networking that our connection began.



DAVID WILLIAMS,
NJIT

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

I am currently a student at New Jersey Institute of Technology; my expected graduation date is May 2016.

Where are you from originally?

I am originally from Jamaica.

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

Through the CIM program, I've learned to be not only a responsible student, but also a responsible person in general. From the moment you enter the program, you learn not just book knowledge but also what you need know for the workplace. This is accomplished through interaction with professionals from major companies who come in and explain to you what a day is like in the industry and give you real-world problems and how they solved them. Another wonderful feature of the program is that most of the concrete related classes that I have had are taught by individuals who actually work in the industry so being

taught by someone like that is valuable because they have the experience and can give practical advice.

What advice would you give to other current CIM students?

I would encourage CIM students to make themselves available and make the best of all the opportunities the program offers students. There are so many opportunities for growth in the program, but if a student is not willing to sacrifice time, then they will never get the true experience. Through the CIM program there is now a student chapter of both the ACI and ICRI organizations. Both organizations offer student competitions, technical sessions, conventions, and a host of other activities in which can get involved. However, if you don't make yourself available, you will never get to experience these privileges. Being involved also helps you to network with industry individuals you probably wouldn't meet otherwise. These contacts could lead to a potential job or even just a beneficial relationship for the future.

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 taken advantage of the summer internship twice: first, with Concrete Lumber Manufacturing Company — a Creter Vault Company — and this past summer, I was with Ferrara West — a Ferrara Bros. company. Both times have been wonderful, because I was given something of substance to do and in turn gained valuable experience. After completing my second summer internship, I was offered a full-time position at Ferrara West where I have the privilege of working on some high-profile jobs including the Goethals Bridge replacement project in NY/NJ. I have also been involved with the ACI student chapter serving as vice-president and currently as president. I've worked closely with the New Jersey ACI chapter to get the program's students certified as ACI Felid Level 1 Testing Technician. I have also had the privilege of being one of the few students to take the class to become a Concrete Construction Special Inspector.

Through the CIM program, I've learned to be not only a responsible student, but also a responsible person in general. From the moment you enter the program, you learn not just book knowledge but also what you need know for the workplace.

Thanks to the CIM program, I have gained the skills to analyze the limitations, strengths, and weaknesses of each of the concrete's components.



**FABIAN
DE LA HOZ,
NJIT**

What school did you graduate from and in which year?

I graduated from New Jersey Institute of Technology in May 2015.

What is your current position and responsibilities at Ferrara Bros?

I was hired by Ferrara Bros. as a Technical Services Representative. My responsibilities with the company are: planning and conducting tests in accordance with applicable industry standards; developing all the necessary mix designs to licensees; and providing technical support as needed for licensees. I am responsible for accurately recording test measurements, applying the mathematical formulas associated with the tests, and calculating test results in accordance with test procedures. I also apply knowledge in laboratory process-development procedures, including safety and chemical handling, to maintain a clean, safe laboratory environment.

Why did you choose this position and this company?

I chose this position as a new challenge in my professional life in the concrete industry. Ferrara Bros. is a company with more than 45 years in the market and a strong reputation in the metropolitan area of New York. I personally think Ferrara offers great opportunities to grow as an employee and an excellent work environment where I can apply all the knowledge acquired in college.

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

The CIM program gave me the opportunity to reinforce the theoretical knowledge with activities such as socials, guest speakers, conferences, field visits, and many other important activities. Thanks to the CIM program, I have gained the skills to analyze the limitations, strengths, and weaknesses of each of the concrete's components. The program has prepared me to identify which properties of the materials used to make concrete can be improved to obtain a high-quality concrete at the lowest possible price.

What advice would you give to current CIM students?

The Concrete Industry Management program allows students the invaluable opportunity to reinforce theoretical knowledge with priceless activities such as socials, guest speakers, field visits, conferences, competitions, and other exciting activities. The recommendation I would give to current CIM students is to absorb all the knowledge they can gain from each of the different activities this great program offers. The program has excellent teachers who have many years of experience in the industry and with much desire to transfer their knowledge in the best way. I would also recommend that my future colleagues actively participate in all training and events the program provides, such as internships and research projects, which will serve as references in their professional lives.



KENDEL KITCHEN,
MTSU

What school did you graduate from and in which year?

I graduated from Middle Tennessee State University in December of 2012.

What is your current position and responsibilities at Kiewit Corporation?

I currently work in Nashville, TN on a \$62-million dollar TDOT Accelerated Bridge Construction project called The Fast Fix 8 Bridges as a Structures Field Engineer. My responsibilities include planning daily operations, tracking quantities, procurement of materials, and managing daily field and other operations and reflecting our company's safety vision that "Nobody Gets Hurt."

Why did you choose this position and this company?

I chose this position because it was a great starting platform for my career, filled with abundant opportunities for career advancement. Kiewit was the only company that stood out over other companies with its core values of people, integrity, excellence, and Stewardship.

How has the CIM program prepared you for your

current job responsibilities?

The program did a great job preparing me for both the construction and business side of our industry. All of the hands-on experience you gain from the program is a benefit when you graduate. The contacts you make with fellow students and faculty is a big help. Graduating from the program with numerous contacts you can call for industry advice is huge in our line of business.

Why did you choose the CIM program?

I chose the CIM program because of its faculty and reputation as a close-knit program. With my background in construction, it felt like a great fit.

What classes did you enjoy the most? The least?

The classes I enjoyed the most were definitely all of the CIM classes. The one I least enjoyed was chemistry.

What advice would you give to current CIM students?

My advice is to get involved as much as you can in the program. My other advice once you graduate is come in with an open mindset to the industry with a "boots on the ground" mentality.

My advice is to get involved as much as you can in the program. My other advice once you graduate is come in with an open mindset to the industry with a "boots on the ground" mentality.

Overall, the CIM MBA program has strengthened the value I bring to my company. It improved my ability to communicate financial information and provide strategies and solutions for executive-level activities.



**BRIAN
DECHIRICO**

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

MTSU 2005

When did you graduate from the CIM MBA program?

Spring 2014

Where are you currently working, what is your position and what are your responsibilities?

I work for BASF Agricultural Solutions as a Sales Specialist for a territory covering south Georgia and north Florida. My responsibilities include working with major end users (both sold and unsold) to create profitable growth within assigned territory. I also work with distribution partners, providing support to achieve in-channel growth.

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

Overall, the CIM MBA program has strengthened the value I bring to my company. It improved my ability to communicate financial information and provide strategies and solutions for executive-level activities.

Why did you choose to enroll in the CIM MBA program?

The unique opportunity to participate in the first graduating class of this program appealed greatly to me.

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

Determine what you want to gain from the MBA program before you enroll. This will sharpen your focus, ensuring you get the best return on investment for yourself and — in my case — the company, as they paid for my MBA. Finally, the amount of effort you put into your studies will directly affect what you gain or take away from the program.



LOGAN OWENS

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

University of Texas, BA in Economics 2001

When did you graduate from the CIM MBA program?

2014

Where are you currently working, what is your position and what are your responsibilities?

Tex-Mix Concrete, CEO

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

The CIM MBA program gave me the tools to grow my business and compete at this level. The ready mix concrete industry is changing rapidly. The CIM MBA program prepared me for that work environment by applying academic business theory to real industry problems.

Why did you choose to enroll in the CIM MBA program?

The CIM MBA program was an opportunity to work on problems specific to our industry. I was attracted by the prospect

of a rigorous business management education framed in the context of our industry.

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

The CIM MBA program is a great way to jumpstart your career in the concrete industry. The work you do with industry leaders and peers is an invaluable experience for future executives.

The CIM MBA program was an opportunity to work on problems specific to our industry. I was attracted by the prospect of a rigorous business management education framed in the context of our industry.

The CIM MBA program has helped me focus on six sigma tactics to lean our assembly and production times in a manner that makes us more competitive.



FRANK BOWEN

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

I graduated from Auburn University in 2004.

When did you graduate from the CIM MBA program?

I graduated from the CIM Executive MBA program in 2014.

Where are you currently working, what is your position and what are your responsibilities?

I am currently a plant manager at Piedmont Precast in Atlanta, Georgia. At Piedmont, I manage precast operations, including production, quality control, safety, logistics, research and development and managing NPCA (National Precast Concrete Association) certification. I am also on the quality assurance committee of the NPCA.

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

The CIM MBA program has helped me focus on six sigma tactics to lean our assembly and production times in a manner that makes us more competitive.

Why did you choose to enroll in the CIM MBA program?

This unique MBA program is the only one of its kind and one that is highly specialized in the industrial field for which I was already a part. It is clearly a niche MBA program that was perfectly tailored to my needs.

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

Evaluate the curriculum of the CIM Executive MBA program then research your options for other MBA programs. After the program's completion, I was quite satisfied with my decision to continue my education with CIM. It was the right program for me. In my experience, as a person with a career in the concrete manufacturing industry, this particular program was extremely valuable in helping me advance my role in the concrete industry.



**FERAIDON
ATAIE, PH.D.**

Which CIM program are you involved with and what are your responsibilities?

I joined the CIM program at California State University-Chico in August 2014 as a tenure-track faculty member. Currently, I serve as the interim director for the CIM program at Chico State. In addition to teaching and conducting research, I will be working with College of Engineering, Computer Science, and Construction Management programs at Chico State, as well as NSC and our local Patrons to keep the CIM program at Chico State functioning at its best.

What interesting projects have your students been involved with during this last school year?

Every year we have several interesting projects in which students are involved. For example, retardation effects of sucrose and zinc oxide on several types of cements and the effect of recycled wash water on concrete properties are examples of projects our students worked on for their Capstone projects.

Why should incoming students consider CIM as a major course of study?

First of all, the CIM programs have strong support from the industry. This means all graduates will have at least one (if not several) job offers. The CIM program uniquely blends business administration with technical aspects of the concrete industry to produce broadly educated graduates who are prepared to work in various sectors of the industry. The CIM program is a hands-on academic program providing numerous opportunities for students to connect and interact with concrete industry leaders and professionals. CIM programs also provide several scholarships that students may not be able to obtain in any other academic majors.

Can you describe the different career paths that graduates of the CIM program can take?

CIM graduates are able to work in several sectors of the industry such as sales and marketing, project management, quality control, and administration to name a few. CIM graduates have many career opportunities. It is important to note that because CIM graduates are trained in both technical and business aspects of the concrete industry and because graduates have excellent networking opportunities during their study period, the professional growth of a CIM graduate is rapid.

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

CIM programs have been developed, promoted and supported by the concrete industry. This partnership is an excellent investment benefitting both students and the industry. Without this huge investment, CIM programs would not have been developed and the industry would have had a difficult time finding this caliber of qualified young people.

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

A company's involvement in the CIM program is simply a great investment. The industry benefits from hiring graduates who are trained and well-prepared for a concrete-related career. Industry support is also vital for enhancing CIM programs and preparing well-rounded students.

CIM graduates are able to work in several sectors of the industry such as sales and marketing, project management, quality control, and administration to name a few. CIM graduates have many career opportunities.

ASSOCIATIONS



American Concrete Institute
Always advancing



Portland Cement Association



American
Concrete Pipe
Association

National Concrete Masonry Association
FOUNDATION

PCI
FOUNDATION



INTERNATIONAL
CONCRETE REPAIR
INSTITUTE



PROVIDING THE MEANS TO ADVANCE CONCRETE CONSTRUCTION

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)

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)

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 are able to 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 of 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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Executive Director



Alan Nedza
Vice Chairman



Michael Schneider
Chairman



Nicole R. Maher
Treasurer

2014-2015 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). It has been joined by the National Ready Mixed Concrete Association (NRMCA), the American Society of Concrete Contractors (ASCC), The American Concrete Pipe Association (ACPA), National Concrete Masonry Association (NCMA), International Concrete Repair Institute (ICRI), the National Precast Concrete Association (NPCA), the Precast/Prestressed Concrete Institute (PCI) and the American Concrete Institute (ACI) Foundation.

For more information, visit www.concretedegree.com.

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Matthew Childs
President
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CIM Patrons of California State University, Chico



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Julie Garbini
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"Advancing The Concrete Industry By Degrees."

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