

*"Advancing The Concrete
Industry By Degrees."*

2013-2014 ANNUAL REPORT

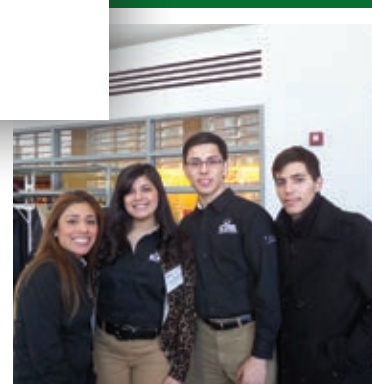


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THE 2013/14 FISCAL YEAR OF THE NATIONAL Steering Committee (NSC) for Concrete Industry Management (CIM), which ended June 30, 2014, was another major milestone in “advancing the concrete industry by degrees.” Some highlights from the year included:

- Completed our most successful auction ever.
- Compiled an industry-wide survey as to current and future demand for CIM graduates.
- Created and funded new scholarships at each school to recruit new students into the program.
- Graduation of the first group of CIM Executive MBA students.
- Provided \$480,000 in scholarships and program funding to the four CIM universities.
- Published a significant number of industry communications on the progress of the CIM Program.

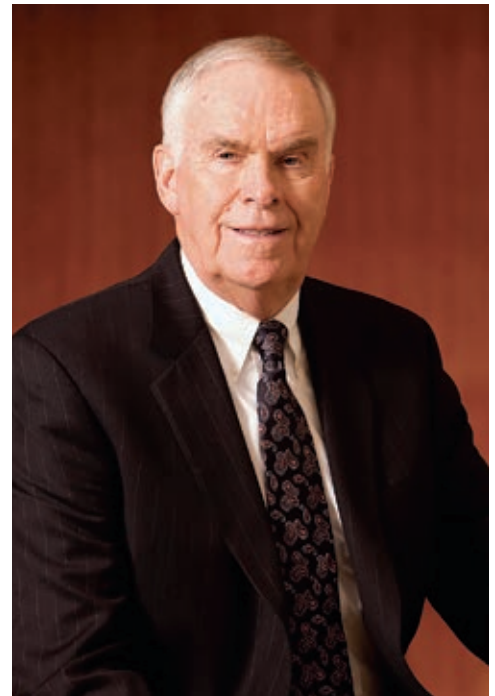
As the concrete industry continues to recover from the worst economic recession of the past 50 years, the NSC is working diligently to ensure the industry has a continuous stream of new management talent available. In order to satisfy the growing demand for CIM graduates, there are four distinguished universities with accredited CIM programs. In addition to the flagship program at Middle Tennessee State University (MTSU) there are programs at New Jersey Institute of Technology (NJIT), California State University – Chico (Chico) and Texas State University (TSU). While this is an impressive group of high quality universities, the NSC believes that future demand will challenge all the programs to produce the number of graduates the industry will need.

The NSC’s mission is to provide financial support, oversight and direction to all CIM program universities. The NSC is organized with a high profile board of directors made up of representatives from sponsoring concrete industry organizations, executives from industry companies and other notable supporters. The direction provided by

the board is carried out by its officers and its standing committees. The committees are populated by volunteers from various concrete industry companies including producers, contractors and suppliers.

The standing committees include education, marketing, long range planning, finance, auction and research. During the past year the NSC has taken steps to be positioned to address the industry’s growing demand for CIM graduates. As you read through the various committee reports and the four universities’ sections of this annual report you will see that a great deal is being done to address the industry’s growing demand for graduates.

In order for the NSC to continue supporting the CIM program universities in the unique aspects of the CIM curriculum, which includes maximum exposure of students to the concrete industry, fundraising is an important aspect of the NSC’s mission. Over time funding for the NSC has evolved from pledged funds from various industry sponsoring organizations to other sources of revenue. While many industry organizations continue pledged support to the NSC, today the predominance of NSC funds are derived from the proceeds of our auction held annually at the World of Concrete. The auction is made possible through Hanley Wood/World of Concrete, the support of Ritchie Bros. Auctioneers and the concrete industry that donates both goods and services to



INTRODUCTION FROM THE EXECUTIVE DIRECTOR



be auctioned. As the auction has evolved, so too has the auction committee. The committee has grown to over 30 volunteers working nearly year-round to ensure its success. As in any successful endeavor leadership is an important element, and that is particularly true of our auction committee that is chaired by Michael Philipps of CEMEX.

The task of ensuring that there is symmetry and consistency throughout all CIM programs is the mission of the education committee. This past year, under the outstanding leadership of Dr. Rex Cottle of Trinity Industries, the education committee made significant progress to ensure that all CIM graduates will have gained the industry-specific knowledge the program intends. A task force of the education committee, led by David Vickers of Permian Basin Materials LLC, has overseen the development of the Executive MBA program at MTSU. This past year the program had its first graduating class. This industry-specific advanced degree program will continue to develop as another educational resource for the industry.

Alan Nedza of BASF is the Chairman of the Long Range Planning Committee. This past year under Alan's leadership, the committee undertook and completed several projects including an industry-wide survey that will ensure the NSC can provide the correct direction for the CIM program into the future.

In order to ensure the industry is aware of the development of the CIM program and the work of the NSC, con-

stant communication and outreach is required. That task is most ably addressed by the Marketing Committee led by Brian Gallagher of O'Neal Inc. This annual report is but one example of Brian's efforts. Much of the success of the auction is directly related to the excellent advertising and promotion of that event, yet another example of Brian's commitment and skill in reaching the industry. The NSC would not be as successful as it has been in informing the industry of the advancement of CIM without Brian and his committee.

Financially the NSC is well positioned to continue its commitment to the program universities. This past year additional steps were taken to increase NSC funding to the universities through scholarships. Once again this additional funding will be matched by the local industry patron groups that support each of the universities. In addition to matching the annual NSC financial support to each university, the patrons support the schools in numerous ways, including guest lecturing, plant tours, student recruitment, and facilities enhancement to name but a few. The vision of the industry partnership is for the NSC to focus on the development and advancement of CIM on a national level and the patrons to focus their efforts on the individual university programs.

The concrete industry is becoming more aware of the importance of CIM for its future. As you review the report, you will come to realize that the NSC and the local patron groups are succeeding in **"advancing the concrete industry by degrees."**

Sincerely,

Eugene Martineau

Executive Director, CIM National Steering Committee

THE EDUCATION COMMITTEE FOCUSED ON meeting the growing need for quality CIM graduates as the concrete and construction industries began their slow recovery from the Great Recession. As construction continues to advance from the cyclical trough, the concrete industry will need to grow its workforce. The CIM National Steering Committee (NSC), the local CIM patrons, and the CIM universities play an important role in accelerating the concrete industry's recovery by providing quality graduates. To this end, we undertook several initiatives to enhance enrollment and to ensure our curriculum was contemporary.

The annual updates of the CIM programs' Strategic Plans included significant enrollment growth objectives. To help meet these objectives, the committee made recommendations to the NSC to provide matching funds with local patrons for new scholarships to recruit more quality students into our undergraduate CIM programs. The committee also recommended funding scholarships to help industry professionals pursue a graduate degree in the CIM MBA program. In addition, a special scholarship was jointly funded by the CIM NSC and the MTSU Patrons in memory of Homer Woods Davenport to be established at Middle Tennessee State University. His father, Chris, was in the first CIM graduating class. These scholarships will

help attract more students into the CIM programs starting this coming academic year.

The Education Committee thoroughly reviewed the core courses in the CIM major and in the business and marketing minors to ensure the material covered was consistent across all CIM programs. The program directors are meeting with the concrete associations to ensure our faculty has the newest material available. This will keep the curriculum current and will continue to expose CIM students to the broad range of career opportunities available in the concrete industry.

The inaugural CIM Journal will be published in the upcoming academic year using seed funds provided by the NSC. The Education Committee, in conjunction with Rick Yelton of Hanley Wood, has worked to develop a national, peer-reviewed journal to showcase the quality research being conducted in the concrete industry. This journal will provide a forum for academic scholars and professional industry experts to share their knowledge and research findings. It will stimulate more research on topics critical to the future of the concrete industry. It will also promote undergraduate research initiatives in our universities.

One of the benefits of the program review process is to find ways to improve the course offerings for our students. A subcommittee has been formed to create a contemporary technical marketing course. The subcommittee's recommendations will provide the basis for an elective CIM course for those students interested in pursuing a position in concrete marketing and sales. Second, the Production Facilities course is getting wide support from the cement industry to incorporate more content on cement manufacturing. MTSU will pilot the amended course in the fall semester of 2014 and will share the curriculum with the other CIM universities.

With the financial support of the concrete industry and with the quality faculty in place, the CIM programs are well positioned to meet the challenge of growing the number of CIM graduates to meet the future leadership needs of the concrete industry.



DR. REX COTTLE

*Chairman
Education
Committee*





**NICOLE
MAHER**

Chairman
Finance Committee

WE ARE PLEASED TO REPORT THAT DURING the fiscal year 2013/14 the National Steering Committee (NSC) operated well within its planned budget. Revenues from industry sponsors and the World of Concrete auction totaled \$816,189 with interest earned from CDs of \$4,134 for total unaudited revenues of approximately \$820,323. Total unaudited expenses for the year were approximately \$531,138. The single largest expense was ongoing support payments of \$360,000 to the CIM program universities followed by the operating expenses of the NSC committees. The net of revenues minus expenses resulted in an increase in reserves of approximately \$289,185 due primarily to increased auction revenues and under-budget expenses. Because of the surplus, the NSC Board approved first-ever scholarship grants to the four program universities and the Executive MBA program totaling \$121,000. These new scholarships are intended solely for the recruitment of new students to the program and have been matched by the local patron groups of all four participating universities. It is anticipated that the new scholarships will increase the number of students enrolled in the program by 100 or more. This investment is part of an effort by the NSC to be able to satisfy the industry's growing demand for graduates. In addition to the scholarships, there was \$3,040 of non-budgeted auction expenses for a total of \$124,040 of non-budgeted expenses.

As of June 30, the NSC had total assets of approximately \$1,316,057. These reserves could, if necessary, be used to satisfy any outstanding commitment the NSC has to the program universities through fiscal year 2014/2015 and beyond. The reserves also serve as working capital to fund the activities of the NSC



during the 2014/15 fiscal year. The current financial plan calls for the additional revenues generated from the 2015 auction at the World of Concrete to replenish the reserves that were depleted from the operating budget to always maintain a reserve or working capital fund at approximately the \$1,000,000-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 and approved by the NSC Board of Directors.

The NSC's Board of Directors recognizes 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 combined with the ongoing financial commitment of local concrete industry patron groups should ensure the CIM program is adequately funded for the future.

The following are financial highlights for fiscal year 2013/14:

	BUDGET	ACTUAL
Total Revenues	\$627,000	\$820,323
Cash Disbursements	\$555,500	\$531,138
Preliminary Increase/Decrease	\$71,500	\$289,185
Total Non-Budgeted Disbursements	-0-	\$124,040
Increase/Decrease in Equity	\$71,500	\$165,145
Audited Total Equity 6/30/13		\$1,150,912
Unaudited Projected Equity 6/30/14		\$1,316,057



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.

- Determine the emerging market needs for CIM graduates regionally, nationally, and internationally and ensure the network of institutions is sufficient to meet those needs.
- Preserve and protect the value of the CIM brand.
- Determine the scope and outreach of the CIM program.
- Promote the use of the CIM university network to conduct coordinated research that benefits the concrete industry.

- Determine the appropriate allocation of National Steering Committee (NSC) funds in support of the CIM program.
- Determine the long-term goal and leadership succession of the NSC.

In support of some of these goals the long range planning committee engaged the firm of Strategic Marketing Associates to conduct 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. This was the same firm that was utilized in 2008. In total, 158 organizations (at the parent level) were interviewed across ten industry segments, representing approximately 97,860 full-time salaried employees (FTSE).

Major Findings from the study

- Familiarity of the respondents with the Concrete Industry Management Program was somewhat mixed, but could be characterized as moderate in general with an average rating of 2.6 on a five point scale, where one is low and five is high.
- The cement, ready mix, trade association, and supplier segments were significantly more familiar with the program than the respondent base as a whole.
- Segments relating to manufactured concrete products were less familiar than the average and the DOTs were the least familiar segment of the group.
- New graduates are anticipated to account for about 20 percent of all FTSE hires over the next year – similar to 2008 levels. The most significant deviance across segments is with pre-stressed concrete producers, where new graduate hires are expected to represent 4 percent of FTSE hires.



LONG RANGE PLANNING COMMITTEE REPORT



- 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.
- Over half of the companies interviewed offer college internships (52 percent), indicating a return to 2008 levels (53 percent).
- Respondents estimated that just over a third of the new graduates they hire over the next year – 36 percent – are likely to be recruited by them, from the colleges or universities they attended. This was down from 47 percent in 2008.
- 29 percent of respondents indicated that they had hired a CIM grad in the past, though that percentage was significantly higher for the cement manufacturer, supplier, and ready mixed concrete producer segments than for the other segments – 78 percent, 50 percent and 49 percent respectively.
- Of those that had not hired CIM graduates, the primary reasons given included:
 - Lack of familiarity with the CIM Program.
 - The distance of the CIM Program Universities from their operations.
 - A preference for engineering graduates.
 - Relationships/preferences for other universities.
 - An inability to retain the new hires, who frequently move back to their home states.
 - The belief that the program is tailored more to some segments of the concrete industry than to others – specifically the producer side, and even more specifically, toward ready mixed concrete production.



- Demand for CIM graduates outpaces supply.
- The perceived strengths of the CIM graduates were their general understanding of the concrete industry and of ready mixed concrete operations.
- Over half of respondents (56 percent) indicated that they're 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 sales and production management functions were slightly less likely as initial entry points.

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. The full report is available for those interested in looking at the details.

THE 2013-2014 SCHOOL YEAR WAS VERY productive for the CIM Marketing Committee. We were able to develop several new marketing tools to help promote the Concrete Industry Management Program. Our committee is focused on increasing overall awareness of the CIM program, and helping educate prospective students about educational and career opportunities in the concrete industry. Our 2013-2014 efforts included a variety of integrated marketing communication initiatives that included promotional, marketing and public relations activities.

CIM's marketing program is designed to reach a variety of targets, including: the construction industry, the concrete industry, 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 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: auction item solicitation tool, press releases, promotional collateral, advertisements, and web marketing.
- **Collateral & 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, 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:** The committee has been developing a new web presence for ConcreteDegree.com.

These efforts include the development of a new website, 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, CONEXPO/CON-AGG, ACI's convention, ICRI's annual meeting, and several other national and local events.
- **Public Relations:** CIM's public relations efforts are 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 2014 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 been working with Constructive Communication, Inc. (CCI) on a proactive public relations campaign that has resulted in the distribution of more than 10 press releases and placement of more than 45 articles in industry publications such as Concrete Construction, Concrete Producer, Concrete Technology Today and Concrete Repair Bulletin, Better Roads, and Concrete International. Articles also had online coverage on websites such as Concrete Producer Online, ConcreteExecutive.com, ForConstructionPros.com, Concrete Construction Online, Construction EquipmentGuide.com, and AggregateResearch.com.
- **Video Production:** During the 2014 World of Concrete, we captured dozens of video interviews that we are using to produce new videos to promote the CIM Program and the CIM Auction.



**BRIAN
GALLAGHER**

Chairman
Marketing
Committee



AUCTION COMMITTEE REPORT



**MICHAEL
PHILIPPS**

Chairman
Auction Committee

ONCE AGAIN, THE CONCRETE INDUSTRY stepped up to support the CIM program. The 2014 CIM auction was the biggest auction ever. The auction was held in conjunction with the World of Concrete (WOC) in Las Vegas. Gross proceeds from the event were in excess of \$810,000 with the highest ever number of donated items. This year, over 40 concrete industry leaders worked together on the Auction Committee to solicit items and promote the event. Every member of the committee recognizes that the auction is vital to the continued success of the CIM program.

The CIM auction has increasingly become the major source of NSC funding for the CIM program universities. Because of its strong nucleus of members, the committee has become increasingly effective and has developed a game plan to assure a successful auction. As soon as the 2014 auction was completed, the committee began working on efforts for 2015.

Hanley Wood and The World of Concrete have been tremendous partners for CIM. Without their help, 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. A similar critical element to the success of the auction is the participation of Ritchie Bros. Auctioneers, premiere auctioneers for the construction industry. They have 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 came from online bidders, a percentage that continues to increase each year.

The signature item 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 of the mixer truck was U.S. Concrete, Inc. of Euless, Texas.

Another key element in the continued success of the auction is the increasing number of industry companies that recognize the importance of the event to CIM. 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 donated by Somero Enterprises. Other high profile donated items include cement and equipment that are either 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, Masters, golf at Sawgrass and the Indy 500. Further, there are a number of exciting vacation trips to New York City, San Francisco, Chicago, Dallas, Nashville and the Monterey Peninsula, as well as luxury items like flat screen televisions, laptop computers and jewelry.



EXECUTIVE MBA DEGREE IN CIM PROGRAM UPDATE

THE CIM PROGRAM AT MIDDLE TENNESSEE State University achieved another milestone in 2014 as it graduated the first CIM MBA cohort in March. A ceremony was held during the NRMCA annual meeting and the graduating class was recognized in front of the industry audience. According to Nate McFarlane, project manager for Oldcastle Materials, “I was searching for a way to improve my business acumen so I can make an impact in the company and in the industry. This MBA program has provided me with the knowledge and skills I need to make an immediate impact in the business. The online format gives me the flexibility to stay engaged with my work responsibilities and apply the skills that I learn immediately.”

The second CIM MBA cohort started the program in January 2014 and will be completing the degree requirements in March 2015.

Industry professionals participating in the CIM MBA program are required to have a minimum of three years of experience in the industry. GMAT or GRE is not required. Academically, all participants will have at least an undergraduate degree from an accredited institution of higher learning. While participants must have at least a bachelor's degree, that degree does not have to be in business.

This 15 month-long program is administered in 7-week blocks. The format includes distance learning, webinars and on-campus visits to MTSU and other designated industry events. This distinctive program is designed to develop long-term relationships amongst participants and faculty, while fostering a collaborative learning environment and allowing national and international recruitment with limited campus visits that are intensive and focused. The class schedule is as follows:



COURSE NAME	SESSION	SEMESTER	START DATE	END DATE
Operations Management	Session 1	Spring 2015	1/20/2015	3/6/2015
Organizational Behavior	Session 1	Spring 2015	1/20/2015	3/6/2015
Managerial Economics	Session 2	Spring 2015	3/23/2015	5/1/2015
Financial Statement Analysis	Session 2	Spring 2015	3/23/2015	5/1/2015
Financial Analysis	Session 3	Summer 2015	6/1/2015	7/17/2015
Information Systems ManagementApplications	Session 3	Summer 2015	6/1/2015	7/7/2015
Sustainable Construction	Session 4	Fall 2015	8/24/2015	10/9/2015
Int'l Supply Chain Management	Session 4	Fall 2015	8/24/2015	10/9/2015
Marketing Management	Session 5	Fall 2015	10/19/2015	12/4/2015
Computer-Based Decision Modeling	Session 5	Fall 2015	10/19/2015	12/4/2015
Strategic Management	Session 6	Spring 2016	1/19/2016	3/5/2016
Troubleshooting Concrete Construction	Session 6	Spring 2016	1/19/2016	3/5/2016

The cohort will be required to attend three 2-3 day face-to-face interaction sessions 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 2015 and the last will be at the World of Concrete in Las Vegas in 2016.

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

For more information, , contact Ayaz Ahmed, associate professor and CIM MBA program coordinator at ayaz.ahmed@mtsu.edu or (615) 767-4479 (cell) or (615) 898-5715 (office) or Dr. Heather Brown at heather.brown@mtsu.edu or (615) 904-8060. To apply, please visit <http://www.mtsu.edu/graduate/apply.php>.

ANNUAL INSTITUTIONAL CIM PROGRAM REPORT 2013-2014



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

ENROLLMENT AND GRADUATES

Current Enrollment:

2013-14 – 57 majors

Graduates:

Spring 2014 graduates: 15

Total graduates to date: 72

- There were also additional graduates in related majors with significant CIM coursework

FACULTY PROFESSIONAL ACTIVITIES & AWARDS

Research/Projects

Tanya Komash and Tim Hostettler

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

Industry Association Participation

Tanya Komash

- 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

Scott Burghardt

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

STUDENT ACTIVITIES

Student Clubs/Chapters

American Concrete Institute Student Chapter

- Officially recognized as an ACI Student Chapter
 - Sponsored by the Northern California and Western Nevada Chapter
- Organized the Chico State CIM Alumni & Friends Golf Tournament
 - Promoted program
 - Connected alumni, industry patrons, and current students
 - Fund raiser for club
- Held guest lecture by Rick Beatty – Vice President of Sales for Lehigh Hanson based in San Francisco Bay Area
 - Focused on career opportunities with Lehigh and personal career goals
- Funded a new concrete mixer for the materials lab through monetary award that the club applied for and was awarded through the campus competitive Student Learning Fee process
- Bowling Night for CIM students at AMF Orchard Lanes
- Participated in Chico State campus-wide recruiting events:
 - Fall semester Preview Day
 - Spring semester Choose Chico Day

International Concrete Repair Institute Student Chapter

- Safety Hazard Mitigation Project at Los Molinos Elementary School
 - Recognition Letter from California State Congressman
- Safety Hazard Mitigation Project at Parkview Elementary School
- Club officers attended ICRI national convention
 - Jaymi Hill, Club President and Jessica Anderson, Vice President, presented their safety work at elementary schools
- Club featured in Concrete Repair Bulletin magazine for their elementary school work
- Club BBQ
- Participated in Chico State campus-wide recruiting events:

**RANKED IN THE TOP 15 PERCENT OF ALL ONLINE
BACHELOR'S DEGREE PROGRAMS IN THE COUNTRY**

– U.S. News and World Report, 2014

16,356
Total Students



**Today
DECIDES
TOMORROW**

15,375 FTE

**50 STUDENTS ENROLLED
IN THE 2013-2014
ACADEMIC YEAR**

\$51-60K
AVERAGE STARTING SALARY



64 STUDENTS HAVE GRADUATED
SINCE THE PROGRAM'S INCEPTION



Number of times
designated as a
member of the
President's Higher
Education Community
Service Honor Roll

14
GRADUATED IN
2013-2014
ACADEMIC YEAR

BestColleges.com in 2014 included
Chico State on its national list of schools
yielding the highest returns on investment

- Fall semester Preview Day
- Spring semester Choose Chico Day

PROGRAM ACTIVITIES

Internships

- Wyatt Roseman – Sousa Ready Mix, Mt. Shasta, Calif.
- Ash Wear – Oldcastle, Stockton, Calif.
- Max Morgan – Granite Rock, central coast, Calif.
- Ryan Goff – Oldcastle, Southern Calif.

- Jose Gonzalez – CalPortland, Southern Calif.
- Paul Tiefel – CalPortland, Southern Calif.
- Rex Watts – Briggs Precast, Willows, Calif.
- Neil Garner – Briggs Precast, Willows, Calif.
- Dylan Rapp – Basalite, Dixon, Calif.
- Shane Strick – KRC, Orland, Calif.
- Nate Adam – Loch Lomond, Magalia, Calif.
- Derek Fridley – U.S. National Park Service, Alcatraz
- Jessica Anderson – U.S. National Park Service, Alcatraz

Certifications

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

Field Trips

- A&A Concrete Supply Chico plant (facilities management)
- A&A Concrete Supply Chico plant (environmental audit)
- A&A Concrete Supply Chico plant (electrical audit)
- Alternative Energy Systems (solar power in industrial applications)
- Discovery Homes project-post-tension construction
- Sierra Nevada Brewery (sustainability in action)
- Valley Contractors Exchange

Senior Capstone Projects

- Jared Reisman – “NASA Co2 Conversion: Economic and Logistical Feasibility Study”
- Javier Vera – “Project & Asset Management Development: Alcatraz”
- Brandon Saetern – “Outdated Out Performed: ASTM Testing and Material Technology”
- Ash Wear – “Bridge Deck Durability Prediction with Caltrans”
- Rex Watts – “Light Standards Asset Management and Rehabilitation: Alcatraz”
- Wyatt Roseman – “Quarry Reclamation Plan”
- Trivon McDade – “Surface Repair Certification Video”
- Brad Diehl – “Culture of Sustainability: Turning Wash Water into Profits”
- Ryan Goff – “Storm Water Reclamation: Pervious Adaption System”
- Jason Harvey – “Concrete Maintenance Specification”
- Jessica Anderson – “Attitudes and Practices in Concrete Maintenance”
- Nate Adam – “Magnesium Base Admixtures and 40% Fly Ash”
- Seth McIntosh – “Surface Saturation and Self Consolidating Materials”
- Neil Garner – “Quality and Operations Management Courses”

- Tyler Abbott – “Decorative Concrete and Construction Schedule Impacts”
- Geoff Hollingshead – “Concrete Floor Moisture Testing”

CIM Program Community Service Projects

- Chico High School/Inspire School of Arts – bench area construction
 - Project management by CIM student Kaylyn Young
- Habitat for Humanity, 19th Street, Chico – formed, placed, and finished sidewalks and patios
 - Project management by CIM students Wiatt Chase and Dylan Rapp
- Oakmont Retirement Home, Chico – Constructed patio and sidewalk for Veterans Garden project
 - Project management by CIM student Jaymi Hill

Industry guest lecturers

in Chico State CIM classes and lab

- Pete Conlin, Quality Control Manager, Teichert Materials – Effect of air entrainment on plastic and hardened concrete properties
- Greg Guecia, BASF Admixtures Regional Manager – Chemical admixtures, Introduction to mix design
- Mark Hayden, QC Manager, Knife River Chico plant – Lab-aggregate sieve analysis
- John Schmidt, QC, Teichert Aggregates – Lab-specific gravity of aggregate
- Carl Sundquist, ACI – Administer ACI Field Testing certification
- Tom Howe, A&A plant manager – Overview of dispatch software program
- Stephan Buol, Vulcan Materials – Overview of aggregate business
- Ron Mulligan, Basalite – Academic and career planning
- Bryan Bach, Jensen Precast – Overview of precast industry
- Tim Daust, A&A Sales Manager – Overview of sales process
- Matt Murphy, Precision Concrete Materials – Pricing and market share
- Bob Perrine, General Manager, American Ready Mix – Budgeting
- Dave Cohen, Cohen-Durrett Law Offices – Hiring, firing, and discipline for managers
- Alicia Bardakjian, Basalite Human Resources – Interviewing job applicants
- Paulette Salisbury, California Nevada Cement Association – Overview of pervious concrete construction
- Greg Guecia, BASF – Curing techniques
- Howard Slater, Slater and Son Contractors, Chico – Tilt up construction
- Joe Sostaric, Conco – Pumping and concrete placement

- James Seegert, Modern Building – Basics of estimating
- Ryan Jasper, Conco (CIM alumni) – Advanced estimating
- Tom Pyle, Caltrans – Bridge construction
- Scott Humphries, DHE Noble – Reclaimed and recycled water use in concrete
- Paulette Salisbury, California Nevada Cement Association – Pervious concrete design and applications
- Mike Donavin, US Concrete – Supplementary cementitious materials
- Chris Prentice, Modern Building – LEED overview
- Greg Knapp, Lehigh Cement – Sustainability in the cement industry
- Tom Pyle, Caltrans – AB 32 overview
- Bethany Hennings, Concrete Steel Reinforcing Institute – Reinforcing steel production
- Craig Hennings, American Concrete Pavement Association – Concrete paving
- Jason Hagin, Historical Architect, GGNRA National Park Service – Preservation philosophy and applications
- Randy Bearden, Walter P. Moore Engineers – Post-tensioning
- Dirk Vanderloop, Professor Emeritus, CSU Chico – Professional and life skills
- Clark Branum, Diamatic – Decorative concrete
- Robert Babo, Bay Area Concretes – Decorative concrete
- Frank Lewis, Sundek Systems – Decorative concrete
- Tom Ralston, Tom Ralston Concrete – Decorative concrete

Student and Faculty Conference and Event Attendance

- American Concrete Institute, Reno, Nev. (2 faculty, 8 students)
- American Concrete Institute's Strategic Development Council, Atlanta, Ga. (1 faculty)
- American Society of Concrete Contractors, Columbus, Ohio (1 faculty, 4 students)
- Command Alkon, Las Vegas, Nev. (1 faculty, 4 students)
- ConExpo-ConAgg, Las Vegas, Nev. (1 faculty, 4 students)
- International Concrete Repair Institute, Reno, Nev. (2 faculty, 8 students)
- International Concrete Repair Institute, Chicago, Ill. (2 faculty, 4 students)
- National Ready Mix Concrete Association – Sustainability Conference, Boston, Mass. (1 faculty)
- National Ready Mix Concrete Association – Concrete Works, National Harbor, Md. (1 faculty, 4 students)
- Precast Concrete Institute, Grapevine, Texas (1 faculty, 4 students)
- Concrete Décor Show (4 students)
- World of Concrete (2 faculty, 1 administration, 2 staff, 12 students)

- 3 students completed intensive week-long internships with companies

MARKETING & RECRUITMENT ACTIVITIES

Patron and Student Recruiting Program

Chico State CIM patrons together with CIM program began an aggressive outreach program to recruit students and additional patrons throughout California and the Western United States. The first meeting was in Southern California; plans are underway for meetings in Seattle and Denver in the near future

Student Recruiting Events

- College of Engineering MESA program – focused student recruiting throughout California
- Faculty lectures in Chico State College of Business classes
- Faculty presentation to Butte Junior College Business class
- Butte Junior College Business classes attended 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
- Chico State Admissions Office special program to admit students into Chico State CIM from any location in California and evaluate their admission equally with in-service area applicants.
- Faculty and staff attendance at Junior College transfer student events

PROGRAM SUPPORT

Chico State CIM Patrons

- The Chico State CIM Patrons organization is a 501(c)(3) tax exempt educational foundation, whose mission is to provide direct and substantial support to the CIM program at Chico State.
- The organization now includes 51 companies and 22 individuals that have received over \$2,880,000 in donations, far exceeding the \$1 million 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.
- Patrons partner with Chico State every semester (two per year) to host the Patron meeting and Founders Dinner on the Chico State campus.
- The Patron Executive Committee meets twice each year.

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- The Patron Chairman represents the organization as a member of the Concrete Industry Management National Steering Committee, attending three NSC Board meetings each year.
- The Patron 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.

Executive Committee

- Guerrero, Douglas K. – CEMEX (retired), Co-Chair
- Davis, Dana – A. Teichert & Son, Co-Chair
- Ceccotti, Eugene R. – Shamrock Materials, Inc., Vice-Chair
- Tietz, Thomas R. – California Nevada Cement Association, Vice-Chair
- Buol, Stephan – Vulcan Materials, Secretary
- Roth, Mike – Lehigh Southwest Cement Company, Treasurer
- Albanese, Bill – Central Concrete (US Concrete), Executive Committee Member
- Bearden, Dave – Teichert Materials (retired), Executive Committee Member
- Law, Allen K., Executive Committee Member
- Scott, Mike – Oldcastle Precast, Executive Committee Member

Corporate Founders (5+ Years Continuous Gifting)

- Basalite
- BASF
- California Nevada Cement Association
- CalPortland Cement
- California Precast Concrete Association
- CEMEX
- Central Concrete (US Concrete)
- The CONCO Companies
- Concrete Promotion Council of Northern California
- Grace Construction
- Granite Rock Company
- Knife River
- Lehigh Southwest Cement/Hanson Aggregates
- Mel Marshall Industries
- Nevada Cement
- Oldcastle Precast
- Quikrete
- Shamrock Materials
- Sika Corporation
- Teichert Materials
- US Concrete Precast
- Valley Rock
- Vulcan Materials
- Western Ready Mix
- Independent Floor Testing & Inspection

Patrons (Yearly Gifting)

- A & A Concrete
- Convergent/Blastrac/Diamatic
- Bode Gravel
- Calstone Company
- Livingston Concrete
- Mitsubishi Cement
- National Cement
- Propex
- Salt River Materials Group
- Sierra Nevada Concrete Association
- Structural
- Umpqua Sand & Gravel
- Dave Humphrey Enterprises
- Angeles Block

Personal Founders (5+ Years Continuous Gifting)

- Albanese, Bill & Mari
- Albanese, Tom
- Burghardt, John & Jamie
- Ceccotti, Eugene
- Davis, Dana & Jerri
- Guerrero, Doug & Kelly
- Humphrey, Don & Cathy
- Khan, Tarek & Jennifer
- Law, Allen & Carla
- Nelson, Rick & Tina
- Odenthal, Greg & Laura
- Repman, Jim & Leslie

Personal Patrons (Yearly Gifting or Contributions)

- Bearden, Dave & Gayle
- Holliday, John
- McDonald, Kirk
- Perrine, Scott & Chantelle
- Humphrey, Scott & Kathleen
- Stephan & Becky Buol
- Rocky Torggrimson

Contributors (One-Time Gifting)

- Briggs Manufacturing
- Bromel Construction
- CVC Construction
- Filipek, David
- Halverson, John
- Holliday, John
- Kahler, Don & Lynn
- Martineau, Gene
- Nestech Development
- RC Ready Mix
- Rich Ready Mix

- Right Away
- Royal Trucking
- Shydowski, Michael
- The Beavers Trust
- Top Grade Construction
- Doug Yeggy

SCHOLARSHIPS

Each Year, Chico State CIM Patrons provide:

\$1,500 scholarships for all qualifying freshmen/sophomores
\$2,000 scholarships for all qualifying juniors/seniors

Scholarships awarded 2013-14

Fall 2013: 21 scholarships for a total of \$22,250

Spring 2014: 16 scholarships for a total of \$17,750

Additional scholarship to MTSU CIM Executive MBA: \$15,000

Industry Scholarships

- Bob Baumann Memorial scholarship
 - Jaymi Hill \$2,000
- Valley Contractors Exchange scholarship
 - Jaymi Hill \$1,100
- Lamon Memorial scholarship
 - Jaymi Hill \$1,100
- International Concrete Repair Institute scholarships
 - Ash Wear \$1,000
 - Shane Strick \$1,000
 - Jared Reisman \$1,000
 - Jose Gonzales \$500
- Mel C. Marshall scholarship
 - Jaymi Hill \$500/semester, ongoing

Chico State CIM Alumni Association

- Accepted Capstone project proposals and awarded \$1,386 in support of projects:
 - \$500 – Jared Reisman
 - \$201 – Javier Vera
 - \$101 – Brandon Saetern
 - \$200 – Ash Wear
 - \$375 – Rex Watts

FINANCIAL INFORMATION

Chico State Income/Expenses 2013-14

INCOME	Patrons	\$75,000
	Patron Scholarships	\$55,000
	National Steering Committee	\$100,000
	University	\$175,931
Total Income		\$405,931

EXPENSES	Salaries	\$214,913
	Operating/Equipment	\$69,817
	Travel	\$41,719
	Patron Scholarships	\$39,250
Total Expenses		\$365,699



ANNUAL INSTITUTIONAL CIM PROGRAM REPORT 2013-2014



MIDDLE TENNESSEE STATE UNIVERSITY

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

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



DR. HEATHER BROWN
MTSU CIM
Department Chair & Professor

ENROLLMENT AND GRADUATES

Program Enrollment:

	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015*
Fall	306	259	155	187	199
Spring	303	226	178	190	210
MBA			8	6	10

*estimated

Number of Graduates:

Fall 2013: 17
Spring 2014: 24
Summer 2014: 6

CIM PATRONS BOARD 2013-14

- Cody Eaton, President, Momentive Inc.
- Patrick O'Connell, Vice President, Cemex Inc.
- Nicholas Edwards, Secretary/Treasurer, Kayln Siebert Inc.

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
- Mrs. Sally Bradford, Executive Aide
- Mr. Jon Huddleston, Lab Manager
- Mrs. Nicole Green, Marketing and Recruiting Coordinator

AWARDS

- 2012 ACI Excellent University
- Scholarships
 - ASCC Foundation Scholarship
 - Middle TN AGC Scholarship
 - BASF Scholarship
 - CFMA Nashville Chapter Scholarship
 - CIM Outstanding Seniors for both concentrations
 - Command Alkon Scholarship
 - 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

STUDENT TRAVEL, 50 STUDENTS

- ASCC Annual Convention
- ACI Conference
- NRMCA Annual Convention and ConcreteWorks
- Command Alkon Customer Conference
- World of Concrete
- Precast Show
- IEEE/PCA Convention
- Constructionarium England


PUBLICATIONS

- Yang, Z., Kowalsky, K., Olek, J., and Nantung, T., "Effects of Sand Characteristics and Fly Ash Content on Properties of Flowable Fill," Submitted on 12/03/2012 and under review for ACI Materials Journal
- Walloch, Craig, Brown, Heather J., and Smith, David R., "Development of a New Test Method for Determining the

I AM *true*
BLUE

765 TOTAL ALUMNI NATIONWIDE
OVER OUR 14 YEAR HISTORY

23,881
Total Students



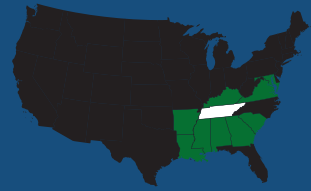
**FIRST
NATIONAL
CIM PROGRAM**

OVER 4.5 JOBS AVAILABLE PER GRADUATE IN 2013-14

ACI Excellent University

\$44,443
AVERAGE STARTING SALARY

IN STATE TUITION OFFERED IN 9 STATES




**FIRST
EXECUTIVE
MBA
IN CIM PROGRAM**

#1
choice of
undergraduates
in Tennessee

In 2013-14, **44** companies visited the CIM
department to recruit candidates and
another **177** full-time jobs were emailed

3,868
Bachelor's degrees granted

AVERAGE OF
50
CIM GRADUATES
PER YEAR



MURFREESBORO
IS THE GEOGRAPHIC CENTER OF THE STATE!

Surface Infiltration Rate of Permeable Unit Pavement Systems,” Symposium on Masonry 2014, STP 1577, Michael J. Tate, Ed., pp. 1–16, doi:10.1520/ STP157720130180, ASTM International, West Conshohocken, PA 2014.

JOURNAL REVIEWS

- Yang: 04/08/2013, Materials and Structures Journal, “Prediction of Fracture Parameters and Strain-softening Behavior of Concrete: Effect of Frost Action”
- Yang: 01/04/2013, ACI Materials Journal, “Cracking Behavior of SHCC Subjected to Sustained Tensile Loading”
- Yang: 08/13/2012, ACI Materials Journal, “Research on Bending Fatigue Performance of Steel Fiber Reinforced Recycled Concrete”

- Brown: CONBUILDMAT-D-13-01554R1, “A Method for Comparing Cores and Cast Cylinders in Virgin and Recycled Aggregate Pervious Concrete”
- Brown: SCS-D-13-00075R1, “An Alternative Mechanism for Accelerated Carbon Sequestration in Concrete”
- Brown: Journal of Materials in Civil Engineering, “Effect of Curing Techniques on Compressive Strength of High Strength Self Compacting Concrete”

UNDERGRADUATE RESEARCH

Total grant dollars requested: \$510,000

Total grant dollars received: \$245,000

Grants awarded:

- Knight: Awarded TDOT Grant for “Full Scale Evaluation of Low Permeability High Volume SCM Bridge Deck Concrete” – \$145,000.
- Ahmed: MTSU Course Development Grants – \$12,000
- Yang: Awarded TDOT Grant for Grout Mix Optimization for Precast Bridge Deck Panels – \$88,000

CURRICULUM UPDATES

- Increase the options of writing intensive courses under the CIM Supporting and Elective Courses.
- Amend Cognate options for CIM students to include more variety of coursework related to concrete and construction.
- Replace Advanced Blueprint Reading (CIM 2050) with Concrete Mixture Design for Production, Sales, and Service concentration to better suit future careers and job description requirements.

MARKETING/PROMOTION

- Hosted over 60 students from Murfreesboro City School’s Club Marvel on a Saturday to learn about concrete and participate in interactive lessons.
- Spoke about the program to visiting Serbian professors.
- Hosted 40 middle school students for Sampler Camp, exposing them to concrete as a possible career industry.
- Exposed 20 Murfreesboro STEM teachers to concrete lesson plans to use with their students.
- Conducted hands-on concrete activities with 19 high school students at ACE camp at MTSU.
- Recruiting: In summer 13, attended all Ports of Call CUSTOMS sessions, traveled to the National School Counselor conference in Philadelphia to present on careers in concrete and host a table for attendees, and hosted an informational luncheon for all Admissions Counselors. In fall 13, CIM traveled to Chattanooga, KY, AL and GA to recruit students at college or construction fairs. In spring 14, CIM attended the TN School Counselor Conference; American School Counselor Association Annual



Conference in Orlando, FL; and Georgia Association of Career and Technical Education Conference in Atlanta.

- Third annual CIM Networking Event was held on 10/29/13 with 16 companies and over 80 students attending.
- In spring 14, the interviewing event was in a new format to accommodate more students and employers with less space. Speed Interviewing Day allowed 23 students to interview in eight-minute intervals with 10 companies for two hours. Over 16 of the students who participated secured internship opportunities this summer.
- In 2012-13, 44 employers visited the CIM department to host socials, attend recruiting events, and/or interview CIM candidates. In addition, 199 opportunities were emailed to CIM students and alumni (177 full-time jobs, 20 internships and 2 part-time positions).
- Annual Golf Tournament in May raised over \$60,000 toward a new CIM building.
- Hosted CIM Senior Dinner the week of graduation to celebrate accomplishments with graduates and connect graduating seniors with industry professionals.
- Continued biannual Alumni Newsletter to keep alumni up-to-date on CIM events.
- Attended School Counselor Conferences in Georgia and Tennessee as well as the national conference in Florida.

SERVICE

- CIM participated in four Habitat for Humanity volunteer projects.
- Brown: Coordinated and participated in 1st annual ACE Camp with T. Gormley and J. Brickey.
- Knight: Served on Board of Directors for Masonry Institute of Tennessee. Served as a masonry judge for the SKILLS USA competition.
- Ahmed: Career Achievement Award Committee Chairman; International Education Committee 2012-2016; CBAS Strategic Planning Committee 2012-2014; ELS Advising and Mentoring 2014; Receive Omani Students at BNA.
- Department Chair and Recruiting Coordinator conduct 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.
- 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.
- Assisted students in finding full-time employment within the industry, 31 of 54 graduating seniors from August 13, December 13, and May 14 had jobs at the time of graduation with an average starting salary of \$42,972 (n=22).

- 38 students participated in undergraduate research in the CIM 4200 Senior Research class.
- 30 CIM students conducted internships around the country in 2013-14.
- Successfully graduated the first 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 8th 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.
- ACI Certifications Committee.
- Fiber Reinforced Concrete Association Fiber Project of the Year Judging.
- Brown: Holcim Gygi von Wyss Scholarship Selection Committee.

RECRUITING EVENTS

COMPANY	SOCIAL DATE	# STUDENTS	INTERVIEWS	# STUDENTS
Chaney Enterprises	10/1/2013	17	10/2/2013	9
Turner Construction	10/8/2013	28	10/22/2013	11
Argos	10/22/2013	30	10/23/2013	9
Lithko Contracting	10/23/2013	32	10/24/2013	12
Breckenridge Materials	10/28/2013	27	10/29/2013	3
CIM Networking Event	10/29/2013	89		
1 A Better House	10/29/2013			
2 A.G. Peltz	10/29/2013		10/29/2013	4
3 American Geothermal	10/29/2013			
4 Breckenridge Materials	10/29/2013			
5 Dugan & Meyers	10/29/2013			
6 Foley Products	10/29/2013			
7 Gate Precast	10/29/2013			
8 Lehigh Hanson	10/29/2013			
9 Oldcastle Bonsal	10/29/2013			
10 Oldcastle Precast	10/29/2013		10/29/2013	9
11 Power Construction Co.	10/29/2013		10/29/2013	3
12 Prestress Services Industries	10/29/2013		10/29/2013	
13 Sonag Ready Mix	10/29/2013			
14 Vector Construction	10/29/2013			

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15 Vulcan Materials Company	10/29/2013			
16 Wayne Brothers	10/29/2013		10/29/2013	6
Lloyd Concrete Services			11/12/2013	5
Oldcastle Materials			2/16/2014	3
Terracon Consulting			2/17/2014	6
Maschmeyer Concrete	2/25/2014	31	2/26/2014	14
U.S. Mix	2/26/2014	31	2/27/2014	18
Vector Group	3/4/2014	17	3/5/2014	6
Lithko Contracting	3/5/2014	22	3/6/2014	10
Oldcastle Materials			3/17/2014	7
Oldcastle Precast	3/20/2014	23	3/20/2014	6
Internship Speed Interviewing	3/21/2013			
1 Delaware Valley Concrete			3/21/2013	23
2 Ernst Concrete of Georgia			3/21/2013	23
3 Hartley Ready Mix			3/21/2013	23
4 IMI			3/21/2013	23
5 Oldcastle Precast			3/21/2013	23
6 Ozinga Ready Mix			3/21/2013	23
7 Prairie Material			3/21/2013	23
8 Prestige Concrete Products			3/21/2013	23
9 Quality Concrete & Conscapes			3/21/2013	23
10 Thomas Concrete			3/21/2013	23
Chaney Enterprises	3/24/2014	32	3/25/2014	9
Southern Concrete	3/25/2014	31	3/25/2014	8
Jayton Construction	3/25/2014	31	3/25/2014	4
Turner Construction			4/8/2014	4
Knife River			4/12/2014	2

Job Postings

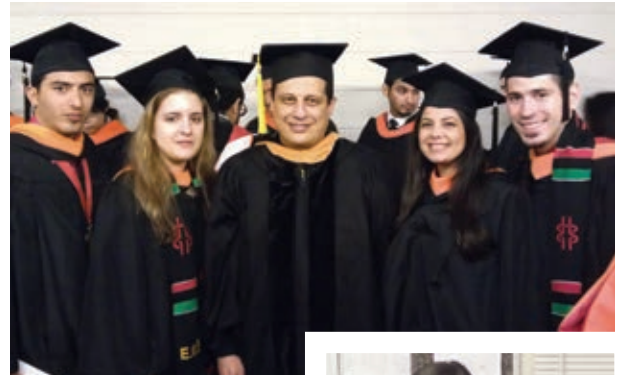
- 236 total positions emailed to the department (7/2013-7/2014)
- 216 full-time openings, 12 internships, 8 part-time jobs
- 44 positions in the state of TN (20%), 116 positions in the southeastern U.S. (54%)
- 92 companies posted multiple positions, 136 unique companies posting at MTSU

Internships

- 35 CIM students conducted internships around the country in 2013-14 and 5 students did a week-long intensive experience in Bircham Newton, England through Constructionarium

FINANCIAL INFORMATION

INCOME	Patrons	\$67,958
	Scholarships	\$50,500
	National Steering Committee	\$100,000
	University Funding	\$468,950
Total Income		\$687,408
EXPENSES	Salaries	\$423,000
	Operating	\$121,925
	Travel	\$55,232
	Scholarships	\$50,500
Total Expenses		\$650,657



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



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

ENROLLMENT AND GRADUATES

Program Enrollment:

	2012-13	2013-14	Net Change
Freshman	17	20	+3
Sophomore	17	20	+3
Junior	22	24	+2
Senior	16	19	+3
Total Enrollment	72	83	+11

Number of Graduates:

Fall 2014: 3 graduates
Spring 2014: 3 graduates
Summer 2014: 4 graduates

NJIT CIM PATRONS BOARD

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

SCHOLARSHIPS

The CIM patrons awarded \$10,000 in scholarships during the 2013-2014 academic year.

JOB PLACEMENT

100% of Fall, Spring and Summer 2013-2014 graduates looking for industry jobs have been placed.

INTERNSHIPS

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

- Silvi Group
- Sika
- Solidia Technologies
- Beyond Concrete
- Ferrara Brothers
- Structural
- Weldon Materials

STUDENT PROJECTS/CERTIFICATIONS

- ACI Field Testing Technician Grade I, provided by the NJ ACI Chapter
- ACI Concrete Competition “Pervious Concrete,” Phoenix, AZ, Fall 2013
- ACI Concrete Competition “Concrete Balling Ball,” Reno, NV, Spring 2014
- Constructionarium, London, England, Summer 2014
- Alcatraz, San Francisco, CA, Summer 2014

AWARDS

- American Concrete Institute Excellent University of the Year Award 2013-2014
- 3rd Place ACI “Concrete Balling Ball” Competition – Reno, Nev., Spring 2014

INDUSTRY SPONSORED SOCIALS, GUEST SPEAKERS, AND FIELD VISITS

- Resource Management Associates, RMA
- George Harms Construction
- Vector
- National Ready Mixed Concrete Association, NRMCA
- NJ ACI Dinners and Golf Outing
- Metro NY ICRI Dinners Golf outing
- New Jersey Concrete & Aggregate Association Conference and Golf Outing
- Tanis Concrete

- LaFarge
- Sika
- BASF
- Silvi Group
- Advanced Concrete Technologies
- Titan America
- County Concrete
- Beyond Concrete
- Lafarge
- Solidia Technologies
- Weldon Materials

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 increased from 72 students to 83 students. The spike in enrollment was due to high school, 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 were electronically published and emailed. Hardcopies were also distributed to the students interested in the program.
- CIM Flickr account has been created to more efficiently organize photographs of all CIM activities and events and also provide ease of viewing at all times for the CIM community. This is the link: <http://www.flickr.com/photos/68318880@N02/>
- CIM is working now to enhance the website by adding job data page, blog, and YouTube page.

PROFESSIONAL ACTIVITIES

- Job and internship placements are still maintained at a 100 percent rate.
- NJACI continues to provide free ACI certifications to our students.
- The ACI student chapter participated in two ACI international

competitions and was named Excellent ACI University for 2013.

- CIM students attended 10 conferences including ACI, ASCC, NJCAA, NRMCA, World of Concrete, NPCA, and ICRI.
- CIM students have travelled to London, England as a part of a CIM team of USA to participate in building a small concrete rig and floating it in the water.
- Three CIM students spent 10 weeks in the summer of 2014 in Alcatraz to participate in the concrete restoration efforts.
- Dr. Mahgoub traveled to Colombia to participate in the first NRMCA South American concrete sustainability conference. He included CIM in his presentation.
- Dr. Mahgoub also traveled to Qatar to start his 3-year research project of Structural Health Monitoring of concrete bridges in Qatar. He included CIM in his presentation.

PROGRAM SUPPORT

- The annual support from the National Patrons included an extra 25k in scholarship money offered this summer for the first time.
- The annual Northeast Patron's Scholarship Benefit Fund Raising Dinner was held in February.
- 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 \$10,000 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 Patrons meeting.

RESEARCH

- Undergraduate: Calculated the Percentage of Fines in Fine Aggregate (Sand).
- Undergraduate: Optimization of Modulus of Elasticity of Concrete Through Empirical Blending of Coarse Aggregate

THE EDGE IN
KNOWLEDGE

8 TOTAL CIM
GRADUATES
IN 2013-2014

10,400
Total Students



FREE

ACI FIELD TEST 1 EXAM
FOR ANY CIM STUDENT

ACI Excellent University

NJIT CIM HAS JOB PLACEMENT

\$55,000
AVERAGE STARTING SALARY

AMONG THE
NATION'S
BEST
UNIVERSITIES

— U.S. News and World Report

85
TOTAL CIM ENROLLMENT
FOR 2013-2014

CIM enrollment has quadrupled in the last **4 years**

30 Total number of graduates
since the program's inception



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, 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.
- For the third year in a row, Dr. Mahgoub has also been selected to be a judge in the Annual New Jersey Concrete Awards Committee 2014, New Jersey American Concrete Institute, NJACI Chapter.
- Dr. Mahgoub is the advisor of the ACI Student Chapter at NJIT and the ICRI Student Chapter (founded in 2014).

PUBLICATIONS

Special Publications

- Mahgoub, M., and Salama A. (in-review). "Basis of Code Criteria for Transverse Live Load Distribution," Chapter 4 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.
- Mahgoub, M. and Jamali, A. (in-review). "Behavioral Model for Recycled Aggregate Concrete under Axial Compression," Special publication: Removal and Reuse of Hardened Concrete. American Concrete Institute, ACI, Committee 555: Concrete with Recycled materials.

Refereed Journal Papers

- Mousa, A., Mahgoub, M. and Wiszowaty, P., "A Simple Test Method for Rapid Measurement of Fines Content in Soils," American Society For Testing and Materials, ASTM, Geotechnical Testing Journal. Vol. 37, No. 2, pp. 177-189.
- Zidan, A., Mousa, A., and Mahgoub, M. (2013), "A Survey-Based Insight for Restructuring Concrete Business in the New Residential Communities in Egypt," Journal of Industrial and Systems Engineering Review, November 14, Volume 1, No 2.
- Hu, J., Lee, S., Kim, Y., and Mahgoub, M., "Inspection and Nondestructive Evaluation of Concrete Bridge with Environmental Deterioration," American Society of Civil Engineers, ASCE, Geotechnical Special Publication on Climatic Effects on Pavement and Geotechnical Infrastructure. pp. 193-203
- Mahgoub, M., Saad Al-Din, A., Razik, M., and Khairallah, F., "Seismic Retrofit of Reinforced Concrete Shear Walls Using Carbon Fiber Reinforced Polymer (CFRP)," Journal of Composite Materials.

Professional Presentations

- Mahgoub, M. (2014). "An Innovative Method of Strengthening Column Base," Joint. ACI Conference, March 24, 2014. American Concrete Institute (ACI). Reno, Nev.
- Mahgoub, M. (2014). "Reinforced Concrete Column Joint Strengthening," ICRI Conference, March 20, 2014. International Concrete Repair Institute (ICRI). Reno, Nev.
- Mahgoub, M. (2014). "Seismic Characterization of Recycled Aggregate Concrete," New Jersey Society of Professional Engineers (NJSPE) Workshop, March 12, 2014. Somerset, New Jersey.
- Mahgoub, M. (2014). "Taking Recycled Aggregate Concrete to a New Era," International Concrete Sustainability Conference Latin America, February 6, 2014. National Ready Mixed Concrete Association (NRMCA) and the Iberoamerican Federation of Ready Mixed Concrete (FIHP). Medellin, Colombia.

Proposals

- Main Research: Structural Health Monitoring Using Wireless Sensor Networks
 - Awarded Grant: (\$1,050,000) distributed by two universities (NJIT and Qatar University)
 - Effective Starting Date: February 12, 2014
 - Effective END Date: February 12, 2017

FINANCIAL INFORMATION

INCOME	Northeast Patrons	\$50,000
	National Steering Committee	\$100,000
	University (in-kind, not included in total)	\$50,000
	Scholarships	\$10,000
	Total Income	\$210,000
EXPENSES	Salaries	\$11,000
	Operating	\$120,000
	Travel	\$55,500
	Scholarships	\$10,000
	Total Expenses	\$196,500



TEXAS STATE UNIVERSITY

The rising STAR of Texas

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
TSU CIM
Program Director

ENROLLMENT AND GRADUATES

Program Enrollment:

	Fall 2009	Spring 2010	Spring 2011	Spring 2012	Spring 2013	Spring 2014
Texas State University	30,805	29,275	31,015	32,001	32,126	33,064
Department of Engineering Technology	436	425	444	493	516	577
CIM Program	13	21	41	56	51	48

PROGRAM ACCREDITATION

In June 2013, the CIM program at Texas State hosted an accreditation site visit from the National Steering Committee. The accreditation team visited

the Texas State University campus to review the curriculum and to interview program students, faculty, members of the concrete industry, and university administrators. The board unanimously voted to confer accreditation status to the Texas State University CIM program at the October 15, 2013 National Steering Committee meeting.

PROGRAM PERSONNEL UPDATE

A national search has been completed to recruit a permanent Program Director for the CIM program. Dr. John Schemmel joined Texas State in July, 2014. Dr. Schemmel is a graduate of the University of Wisconsin Madison (BSCE, 1982), Lehigh University (MSCE, 1984), and North Carolina State University (PhD, 1989). He has served on the faculty at the University of Arkansas, South Dakota State University, and most recently at Valparaiso University. He is a licensed professional engineer and Fellow of the American Concrete Institute. He is also an ACI certified concrete field testing and strength testing technician. The Texas State program now has four full-time tenured or tenure track faculty.

PROFESSIONAL ACTIVITIES

Ongoing Research

- A. Torres, "Characterization of Ultra High Performance Concrete with the use of Recycled Aggregate Concrete," \$8,000, Texas State University Research Enhancement Program, January 2014 - January 2015.
- A. Torres, "Assessing the Effect of Gravity on the Property of Materials," \$286,198, SPACELAB - Space Dynamics Laboratory, July 1, 2014 - July 1, 2016.
- Y. Kim, "Development of a Gas Turbine Rotor Stacking Software," \$70,000, KEPSCO Plant Service & Engineering, July 1, 2013 - September 30, 2014.
- Y. Kim, "Concrete Based on Portland Limestone Cement with Limestone Content Greater than 15%," \$30,000, Capitol Aggregate, June 1, 2014 - May 31, 2015.
- Y. Kim, Texas Higher Education Coordinating Board/General Program, \$12,000, Texas State University, June 1, 2104 - July 31, 2014.

Pending Proposals

- J. Hu, D. Banerjee, and J. L. Liu, "Development of Cost Effective 'Smart Concrete' with Nano and Micro Sensors for Structure Monitoring," submitted, June 2014, to Texas A&M University System (TAMU) Alliance for Graduate Education and the Professoriate (AGEP).
- J. Hu and W. Rudzinski, "Polymer Fiber Concrete Adhesion Improvement," submitted, May 2014, to Deutsche Technologiedienst.
- Z. Ge and J. Hu, "Rheology and Shrinkage Study of SCC with

Recycled Fine Aggregate as Internal Curing Agent," submitted, March 2014, to National Science Foundation of China ; amount: \$135,659.

PUBLICATIONS AND PRESENTATIONS

Publications

- J. Hu, S. Siddiqui, D. Fowler, and D. Whitney, "Experiences and Perceptions of Two-Lift Concrete Paving," ASCE Geotechnical Special Publications on Sustainable Civil Infrastructures: Innovative Technologies and Materials, accepted for publication.
- J. Hu, K. Wang, and F. Bektas, "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, accepted for publication.
- J. Hu, S. Lee, Y. Kim and M. Mahgoub, "Inspection and Nondestructive Evaluation of Concrete Bridge with Environmental Deterioration," ASCE Geotechnical Special Publications on Climatic Effects on Pavement and Geotechnical Infrastructure, pp. 193-203, March 2014.
- J. Hu, Z. Ge, and K. Wang, "Influence of Cement Fineness and Water-to-Cement Ratio on Mortar Early-Age Heat of Hydration and Set Times," Journal of Construction and Building Materials, Vol. 50, No. 1, pp. 657-663, 2014.
- J. Hu, S. Siddiqui, D. Fowler, and D. Whitney, "Two-Lift Concrete Paving – Case Studies and Reviews from Sustainability, Cost Effectiveness and Construction Perspectives," 93rd Annual Transportation Research Board Meeting, Washington D.C., January 12-16, 2014.
- P. Rose, B. Aaron, D.E. Tamir, L. Lu, J. Hu, and H. Shi, "Supervised Computer-vision Based Sensing of Concrete Bridges for Crack Detection and Assessment," 93rd Annual Transportation Research Board Meeting, Washington D.C., January 12-16, 2014.
- Gomez, T. G. Conner, I.-H Song, Yoo-Jae Kim, and Byoung Hee You, "Mold Filling Analysis of an Alignment Structure in Micro Hot Embossing," Fibers and Polymers, Vol. 15, No. 6, pp. 1197-1201, DOI 10.1007/s12221-014-1197-5.
- Yoo-Jae Kim, B. You, V. Sriraman, and A. Kotwal "Behavior of Confined Concrete with Variable Crack Angle - Part I," Magazine of Concrete Research, accepted for publication.
- Kotwal, Yoo-Jae Kim, J. Hu, and V. Sriraman, "Characterization and Early Age Physical Properties of Ambient Cured Geopolymer Mortar Based on Class C Fly Ash," International Journal of Concrete Structures and Materials, accepted for publication.
- Yoo-Jae Kim, Ashley Kotwal, Hyunhwan Kim, and S.J. Lee, "Stiffness Prediction of Recycled Aged CRM Binders Using an Artificial Neural Network," International Journal of Pavement Research and Technology, Vol. 7, No.1, 2014. pp. 9-17.

Presentations

- J. Hu, A. Ortiz, and V. Sriraman, "Implementing PBL in a Concrete Construction Course," ASEE Annual Convention, Indianapolis, IN, June 2014.
- J. Hu, S. Siddiqui, D. Fowler, and D. Whitney, "Two-Lift Concrete Paving – Case Studies and Reviews from Sustainability, Cost Effectiveness and Construction Perspectives," 93rd Annual Transportation Research Board Meeting, Washington D.C., January 12-16, 2014.
- P. Rose, B. Aaron, D.E. Tamir, L. Lu, J. Hu, and H. Shi, "Supervised Computer-vision Based Sensing of Concrete Bridges for Crack Detection and Assessment," 93rd Annual Transportation Research Board Meeting, Washington D.C., January 12-16, 2014.
- Yoo-Jae Kim, "Development of Deflection model for Carbon Fiber Reinforced Sandwich Panel," Korea Institute of Construction Technology (KICT), Ilsan, South Korea, May 2, 2014.
- A. Torres, J. Hu, "The Effect of the Cementitious Paste Thickness to the Performance of Pervious Concrete," Engineering Mechanics Institute (EMI) 2014, Hamilton, Ontario, CA, August 5 - 8, 2014.

COMMITTEES

Dr. Hu is a member of the following technical 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
- 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 technical committees:

- Precast/Prestressed Concrete Institute
 - Seismic Design Committee
 - Industry Design Handbook Committee
- TxDOT Research Management Committee Technical Advisory Panel
 - RMC 5 Structures and Hydraulics

Dr. Torres is a member of the following organizations:

- American Concrete Institute
- American Society of Civil Engineers

The rising *STAR* of Texas

36,739 **Forty-four**
Total Students 2013-2014 CIM ENROLLMENT

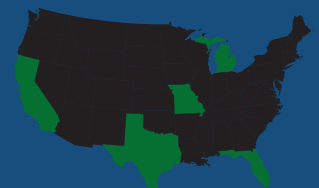


ACI Excellent University

ONLY CIM PROGRAM TO RECEIVE THE AWARD FIVE TIMES

27

GRADUATES
SINCE THE
PROGRAM'S
INCEPTION



FIVE
CEMENT PLANTS
WITHIN 30 MILES
OF SAN MARCOS

Texas, California, Missouri, Florida and Michigan were, in descending order, the **FIVE** leading cement-producing states in the U.S.

10 Total CIM Graduates
in 2013-2014

ELEVEN TOTAL CEMENT PLANTS IN THE STATE

Dr. Schemmel is a member of the following technical committees:

- American Concrete Institute
 - 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 Subcommittee
- C 09.99 Research (Chair)
- American Society of Civil Engineers
- American Society for Engineering Education

PROGRAM SUPPORT

Scholarships

- On December 6, 2013, the ACI San Antonio chapter awarded \$1,500 scholarships to three Texas State CIM students. The scholarships were presented at the chapter's annual luncheon. Dr. Jiong Hu accompanied the students.
- On December 12, 2013, the ACI Central Texas chapter awarded \$2,000 scholarships to two Texas State CIM students, Santos Verdin and Paul Skogen. The scholarships were presented at the chapter's annual luncheon. Dr. Jiong Hu accompanied the students.
- In April 2014, nine Texas State CIM students received scholarships ranging from \$1,000 to \$3,500. Scholarships were presented to the recipients during the Department Awards Day. These scholarships, totaling \$16,000, were made possible by virtue of funds from the Texas State CIM Patrons.

MARKETING ACTIVITIES

- On October 10, 2013 and February 13, 2014, Texas State Construction & Concrete Industries Job Fairs were held in the LBJSB Ballroom on the Texas State University campus. Nearly 40 companies participated in the February job fair.
- Three Texas State CIM social and recruiting events took place at Pluckers in San Marcos during the academic year. Chris Lechner of PCMA sponsored an event on October 30, 2013. Victor L. Bretting of AUI sponsored an event on February 23, 2014. Dr. Rich Szecsy of TACA sponsored an event on April 24, 2014. Industry professionals, CIM students, CIM faculty, and prospective students attended each of these functions.
- On November 8, 2013, approximately 15 students from San Marcos Montessori School visited the CIM concrete laboratory. Dr. Jiong Hu hosted the tour and a concrete activity for the young students. Texas State CIM students Eric Adams and Amy Ramos assisted with the event.
- On May 1, Texas State CIM students Charles Tuttle, James McNeill, and Santos Verdin participated in the ICRI South Central Texas Chapter annual golf tournament.

STUDENT PROJECTS

- Two Texas State CIM students presented research posters at

Texas State's Undergraduate Research Conference. Ms. Ramos' poster was titled "Correlation of the Cementitious Paste Thickness to the Performance Properties of Pervious Concrete." Mr. Burkhardt's poster was titled "Using Recycled Concrete Aggregate in Ultra High Performance Concrete."

- On October 20, 2013, CIM students James McNeill, Eric Adams, Cody Houser, Marcus Flores and Amy Ramos represented Texas State in the Pervious Concrete Competition at the ACI Fall Convention in Phoenix. The group placed sixth out of thirty teams from both domestic and international universities. Dr. Jiong Hu served as faculty advisor for the team.
- In December 2013, the Sustainable Concrete and Construction presentation was hosted at Texas State. This presentation is associated with CIM 3330 – Concrete Construction Methods.
- On December 5, 2013, students in CIM 4310 Senior Lab gave in-class presentations. Topics included Pervious Concrete with Micro Fiber, Fiber Reinforced Self Consolidating Concrete, and Lightweight Aggregate Self Consolidating Concrete.
- In April, 2014, the second annual 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. Students could also enter their high-strength mixes in the Texas Aggregates and Concrete Association's High-Strength Competition, which is a state-wide industry event. Texas State CIM students took third place in the TACA competition with an average compressive strength of 15,740 psi.

STUDENT EDUCATIONAL ACTIVITIES

- Approximately sixteen CIM students were placed into internships in summer 2013.
- On September 5, 2013, ten Texas State CIM 4310 Senior Lab students participated in a tour of the Boral Material Lab in San Antonio, Texas.
- On September 23 and 24, 2013, six Texas State CIM students attended the 2013 PCI Annual Convention held in Grapevine, TX. Dr. Yoo-Jae Kim accompanied the students.
- In October 2013, four Texas State CIM students attended the ACI Fall Convention in Phoenix. Dr. Jiong Hu accompanied the students.
- On October 18, 2013, three Texas State CIM students gave a presentation on "Recycled Carpet Fiber Reinforced Concrete with Recycled Concrete Aggregate" at the 2013 College of Science Research Conference organized by the University of Texas at San Antonio. Dr. Yoo-Jae Kim served as advisor to the group.
- On November 19, 2013, the Texas State ACI Student Chapter organized a plant tour of Heldenfels Enterprises. Approximately 20 CIM and CSM students participated in the tour. Drs. Jiong Hu and Anthony Torres accompanied the students.

- On November 22, 2013, twelve CIM and CSA students visited the co-generation power and chiller plant on Texas State University Campus.
- On January 8, 2014, the Texas Aggregates and Concrete Association (TACA) hosted a training program for concrete professionals at Texas State. Topics included: Cement, Pozzolans, Admixtures, Fly Ash, Aggregates, Concrete, and Ready Mix/Concrete Pipe. Six CIM students attended this event free of charge.
- On January 15, 2014, ten Texas State CIM students from the CIM 3420 Fundamentals of Concrete: Properties and Testing course visited the Texas Lehigh Cement Plant in Buda, TX. Dr. Anthony Torres accompanied the students.
- On January 31, 2014, eight Texas State CIM students participated in a community outreach project organized by the Texas State ACI student chapter. The group assisted with the placement of a 30 cubic yard fiber-reinforced concrete driveway in Wimberley, Texas.
- In January 2014, eight Texas State CIM students attended the World of Concrete in Las Vegas. Each student delegate attended educational seminars and assisted with the CIM booth and auction.
- In March 2014, Texas State CIM students attended the CONEXPO-CON/AGG 2014 show in Las Vegas. Each student attended an education seminar during their time in Las Vegas.
- In March 2014, five Texas State CIM students visited the Hoover Dam and Pat Tillman Memorial Bridge. Dr. Jiong Hu accompanied the students.
- On March 28, 2014 eight Texas State CIM students toured the Lehigh Hanson quarry operation in New Braunfels, Texas. The tour was organized by the Texas State ACI student chapter.
- In April, 2014 nine Texas State CIM students took and passed the ACI Field I Certification exam in Texas State's Concrete Lab. The ACI Central Texas Chapter assisted with the administration of the exam.

- Texas Lehigh Cement and Ingram Ready-mix provided material and supplies for the concrete testing laboratory.

OTHER NEWS

- For the fourth year in a row, the Texas State ACI student chapter was recognized as an ACI Excellent University. The Texas State ACI Student Chapter is one of 16 chapters that received the award in 2013, and one of the only five chapters that has received the award every year since it was established in 2010. The chapter was recognized at the ACI Spring Convention in Reno, NV on April 2014.
- On April 25, 2013, Texas State ACI Student chapter officers were elected for the 2014-2015 academic year. Dr. Jiong Hu serves as the faculty adviser for the student chapter.
- On August 29, 2014, the Texas State ACI Student Chapter hosted a sporting clay tournament at the National Shooting Complex in San Antonio. The goal of this event was to raise funds for the chapter so that it could continue to provide networking opportunities for its members. The tournament brought current students, alumni, and industry professionals together to collaborate and achieve these goals.

FINANCIAL INFORMATION

INCOME	Texas State Patrons	\$16,000
	National Steering Committee	\$60,000
	TSU Operating Budget	\$296,180
	Total Income	\$372,180
EXPENSES	Operations (travel, materials, equipment, etc.)	\$102,483
	TSU Faculty Salaries	\$211,180
	Scholarships	\$16,000
	Total Expenses	\$329,663

INVOLVEMENT OF THE PATRONS/ INDUSTRY

- Texas State Patrons Board met on December 10, 2013, and May 28, 2014 in San Marcos, TX.
- Both ACI San Antonio and ACI Central Texas Chapter provided scholarships to Texas State CIM students.
- Tex Mix Concrete, Heldenfels Enterprises, Robert Ober and Associates, Lehigh Hanson Aggregates, and TACA all provided speakers for the ACI student chapter.
- Fifteen guest speakers from industry made presentations in CIM courses.
- Heldenfels Enterprises, Lehigh Hanson Aggregates, and Texas Lehigh Cement provided opportunities for CIM students to participate in plant trips.

By integrating students into the industry, the CIM program gives us plenty of opportunities to work and interact with potential employers.



**JAYMI HILL,
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 with an anticipated graduation date of May 2015.

Where are you from originally?

I am originally from Yuba City, Calif.

Why did you choose this university and the CIM program?

I chose the university because of the program. There are so many opportunities with the CIM program that the career possibilities are endless. The technical and business combination fits me well.

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

By integrating students into the industry, the CIM program gives us plenty of opportunities to work and interact with potential employers. This is unique to the major and is ultimately the building block of a successful future in concrete.

What advice would you give to other current CIM students?

Get involved as much as you can. The program hands you opportunities that almost guarantee you a career, but you have to decide what to do with them.

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?

Last summer I was able to be a part of the Alcatraz Preservation Field School, where my concrete experience first started. This summer I interned at BASF Construction Systems, helping build their sector strategy for stadiums.

Have you been able to interact with the CIM patrons at your school? If so, in what capacity?

The CIM patrons are very much involved in our major and we interact with them through program events and student club activities. They are always so willing to be involved with our program and we are very thankful for that.



DEEPIKA MISRA,
NJIT

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

I am currently attending The New Jersey Institute of Technology, with an anticipated graduation date of May 2015.

Where are you from originally?

I was born and raised in Washington, D.C. before moving to New Jersey.

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

The CIM program has not only increased my knowledge of the various facets of the concrete industry, but also of the general construction business by giving me a good deal of exposure to the realities of the concrete industry. The curriculum starts with the basics and continues to a further in-depth study of concrete and is intended to prepare students not only to recognize the building materials, but also to effectively run any concrete operation. With most majors, graduates have only hypothetical knowledge and practically no contacts within their industry. We,

on the other hand, continually meet people from the industry. I believe CIM has prepared me for the real world because not only have I acquired theoretical knowledge, I've also gained field knowledge from visiting companies and plants within the industry to see how concrete is made, and learned the purpose of each plant, performed lab work, and attended conferences and socials. CIM has allowed me to gradually diversify my interests, which in turn has given me an "edge."

What advice would you give to other current CIM students?

I would tell current CIM students to be active in the program and get as much knowledge as you can by attending conferences and participating in ACI student chapter activities. Try to introduce yourself to as many people in the industry as possible, and build contacts. Continue to study everything you can about all characteristics of concrete. Above all, remember to have fun with the program. The professors are willing to provide you with assistance – you just have to put in the determination.

Have you been able to interact with the CIM patrons at your school? If so, in what capacity?

The CIM patrons have been very generous with their time and resources to make this program an accomplishment. Each semester, many of the CIM patrons come in for socials and such to give us demonstrations of what their duties entail at their companies and describe their functions within the company. Aside from being informative, these are brilliant networking opportunities, of which all students take full advantage, as these could become future employers or coworkers.

With most majors, graduates have only hypothetical knowledge and practically no contacts within their industry. We, on the other hand, continually meet people from the industry.

I had an interest in the CIM program because of the specialization it offers in concrete, the most utilized material in the world.



SANTOS VERDIN,
TSU

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

I am currently attending Texas State University and intend on graduating December 2014.

Where are you from originally?

I was born in Chicago and moved to Seguin, Texas when I was five.

Why did you choose this university and the CIM program?

I chose Texas State because of the great environment it offers. The San Marcos River flows right through campus. That's hard to beat. Plus, I love the Hill Country. I had an interest in the CIM program because of the specialization it offers in concrete, the most utilized material in the world. I plan on working in construction so I figured this specialization would give me an advantage.

What advice would you give to other current CIM students?

Get involved in as much as possible. This industry is all about networking. The more people you meet the better. Good grades are great but the people you meet can be the most valuable resource. One day that person could be the one who hires you. A good friend once put it this way "It's the hands you shake that get you in, and the things you know that keep you there."

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?

The summer of 2013 I interned with TAS Commercial Concrete out of Houston. I learned a lot about concrete construction that summer. Had a chance to work on everything from pouring drill shafts to lifting tilt wall panels. It made learning in the classroom much easier because I had witnessed the things we were talking about out in the field. I have also been interning with Austin PreStress since October 2014. There I am the assistant production manager. This internship has taught how to make business decisions and manage employees.

Have you been able to interact with the CIM patrons at your school? If so, in what capacity?

The Texas State CIM Patrons have always been supportive and willing to help with questions or projects students are working on. They make all the out of class activities possible. They have been extremely supportive of the ACI Student chapter here and helped with putting on the first inaugural clay shooting tournament fundraiser. I have been fortunate enough to receive several scholarships from them and I am very thankful.



**JOANA
MARQUES,
NJIT**

What school did you graduate from and in which year?

I graduated in May, 2013 from New Jersey Institute of Technology.

What is your current position and responsibilities at J&M Lifestyles, LLC?

I work for J&M Lifestyles, LLC as an Office Manager. My responsibilities are to make sure projects are scheduled appropriately, orders are placed on time from external vendors, to compile project information that is required and translate templates/shop drawings of projects into actual paperwork that will go into the production queue, to record vendor prices to compare and contrast them with future purchases, to record and change any new forms appropriately, to track orders being received and sent out, to write procedures and keep track of standards which are being implemented. I coordinate all of the project details so each project gets everything it needs on time for the estimated date of completion.

Why did you choose this position and this company?

I chose to work at J&M Lifestyles, LLC because it's a very unique precast decorative concrete company. The company tries to break

the boundaries of concrete with every project, which is very exciting. One such example is with one of the company's most popular textures WoodForm. This is concrete that is made to have the appearance of wood without the intensive-care properties of actual wood. I chose to work at this position because I wanted to develop my managerial skills while still being connected to the development of a product. Another reason is that I wanted to see how such a universal material could be manipulated and produced into the most unique pieces that clients have seen.

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

The CIM program has prepared me for my current job responsibilities by giving me hands-on experience. Even though I have a more managerial position in the office than actual QC or QA in the shop, I still know what I'm looking at and how items are interacting with each other. The program gave me, within the school year, a real sense of responsibility which is also needed in the outside world when working within a company

What advice would you give to current CIM students?

The advice I would give to the current CIM students is to take advantage of everything the program offers because every class, every event, and every person you talk to can help you shape the person you will become in the future. Also, there are many areas within the concrete field that are still unexplored, so don't settle for the typical job within a typical company. Explore the field, find what speaks to you and go for it without any regrets.

The advice I would give to the current CIM students is to take advantage of everything the program offers because every class, every event, and every person you talk to can help you shape the person you will become in the future.

The CIM program introduced me to the scientific side of the construction industry. It provides real, hands-on opportunities to gain the industry exposure that every college student should have.



**TAYLOR
NORTHERN,
MTSU**

industry and also so much about business. When I started my career, I was very fortunate to have very few instances that I wasn't familiar with, which helped take some of the fear out of a new start.

Why did you choose the CIM program?

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

What classes did you enjoy the most? The least?

I enjoyed the majority of my concrete classes, but I especially enjoyed my lab classes. My least favorites were definitely my English and writing classes.

What advice would you give to current CIM students?

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

What school did you graduate from and in which year?

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

What is your current position and responsibilities at Southern Concrete?

I currently work in sales at Southern Concrete Products in Jackson, Tennessee. I meet with companies to discuss their needs for current and upcoming projects to ensure the specifications are met, while receiving a quality product.

Why did you choose this position and this company?

Southern Concrete offered an opportunity to grow with the company, while learning each aspect of their operation.

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

The CIM program introduced me to the scientific side of the construction industry. It provides real, hands-on opportunities to gain the industry exposure that every college student should have. The program teaches you so much about the concrete



**JONATHAN
HARRELL,
MTSU**

my experience through the CIM program allowed me to immediately add value to my organization. After completing my Master's degree, I have the ability to step back and see the "big picture" of our business. My Masters has helped me develop a better understanding of our manufacturing process, logistical hurdles and opportunities, as well as the financial health of our company.

Why did you choose the CIM program?

My father suggested that I look into it after I completed high school. His thoughts were that they would never replace concrete as a building material, and that the product would never be outsourced. I completed the first two years of undergrad yet still remained somewhat skeptical about my decision. That summer, I was hired by Irving Materials, Inc. in Nashville as an intern. This was my first real exposure to the industry, and it wasn't long after that that I knew this was where I needed to be. I love the fast pace, the ever-changing environment and the people who work in the industry.

What advice would you give to current CIM students?

Be prepared to start at the bottom and work your way up. Keep in mind that many of the individuals you encounter at the beginning of your career have been in the industry longer than you have been alive. Be humble, and learn what you can from their experience. Finally, find a mentor (or two) who can help you develop as a professional and a person.

What school did you graduate from and in which year?

Undergrad: Middle Tennessee State University – 2007.
Masters: Middle Tennessee State University – 2014.

What is your current position and responsibilities?

Currently, I am the Technical Services Manager for Essroc Italcementi Group. My main responsibilities are to provide technical support and value to our bulk and package cement customers. I also work with quality and production to ensure that our products meet the market demand.

Why did you choose this position and this company?

I chose Essroc because of its international footprint, as well as its commitment to quality, sustainability and customer satisfaction.

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

The CIM Program has prepared me for my career in many different capacities. After the completion of my undergraduate degree and internships, I had learned the fundamentals of the industry from production to quality. After a brief training period,

My Masters has helped me develop a better understanding of our manufacturing process, logistical hurdles and opportunities, as well as the financial health of our company.

The CIM program of study is highly hands-on and industry focused. Both in the classroom and after graduation, our students hit the ground running and never look back.



DR. JOHN SCHEMDEL,
TEXAS STATE UNIVERSITY

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

On July 1, 2014, I became the new CIM Program Director at Texas State University in San Marcos, Texas. My duties are similar to those of the directors at the other CIM programs. I will be working with the NSC, Department Head for Engineering Technology, the CIM faculty, and Texas State Patrons group to deliver the CIM program at TSU.

How did you become involved with this school and the CIM program?

I have been aware of the CIM program for many years, essentially since its inception. Last fall, a colleague familiar with the Texas State program encouraged me to apply for the open director position. I've been involved with concrete, in several capacities, since the late 1980s. The CIM program at Texas State seemed like a perfect fit at this point in my career. I'm excited to be part of the CIM and Texas State families.

What interesting projects have your students

been involved with during this last school year?

Since I just arrived at Texas State I'll modify this question as follows, "What interesting projects do you have planned for your students for this school year and beyond?" An element of the program at Texas State that I hope to expand is undergraduate research. Every sector of the concrete industry deals with problems of a practical nature. I believe that CIM students are uniquely qualified to address these problems and offer the industry implementable solutions. I will be working toward the establishment of a formal undergraduate research center at Texas State where students will work with industry partners to tackle these problems. As a consequence, I am expecting that the students at Texas State will routinely be making presentations at national conventions as well as publishing their research.

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

The CIM program of study is highly hands-on and industry focused. Both in the classroom and after graduation, our students hit the ground running and never look back. Throughout their academic career, CIM students are repeatedly interacting with concrete professionals and potential employers. Consequently, our program continues to have excellent placement of its graduates,

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

Actually, this question is difficult to answer because there are so many career paths available to a CIM graduate. Students can take positions related to the materials in concrete, production, quality control, management, construction, sales, and the list goes on. Individuals can take positions within Texas, across



the United States, and internationally if they so choose. Those who are interested can continue their education by earning an MBA. This breadth of opportunities makes a CIM graduate highly employable.

What is unique about the graduates of the CIM program?

As I've noted, the CIM program is very hands-on and industry focused. This means that our students are involved in the very type of work they can expect to encounter in a professional setting. This is important to potential employers as our students are productive on their first day of work.

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

I come to the CIM program after 25 years in civil engineering and related activities. In civil engineering we saw the value of industry partnerships and so were always trying to establish partnerships with local and national firms. Typically our efforts weren't very efficient as we approached and worked with companies one at a time. This is not the case with the CIM program where nearly the entire concrete industry actively participates on a continuing basis. Industry has a vested, rather than peripheral, interest in the CIM program. This has a positive impact on our students, program, and department and, consequentially, back on the industry. In short, the industry/academic partnership is a great component of the CIM program.

What are your thoughts about the partnership between CIM and its Patrons?

The Patrons are the local industry, so just like the industry/academic partnership the program/Patron partnership is a great feature of the program. This partnership helps us keep the academic program relevant and provides educational and employment opportunities for our students.

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

I'm a firm believer in getting off the sideline and into the game. For me, there is no better way to understand the issues, help effect changes, be creative, and work toward continuous improvement than to be a participant. Whether a company, or sector of the industry, believes that our graduates are well prepared to join the workforce, poorly prepared, or something in between, they should be active participants in the CIM program to help us produce the most prepared graduate possible.

What is your vision for the CIM program?

Both locally and nationally, I hope to see growth across the board built on high quality incoming students and exceptionally prepared graduates. It's my expectation that all sectors of the concrete industry will turn to CIM graduates first when looking to hire employees.

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

As a whole, the concrete industry is a key constituent of the CIM program. A primary objective of the program is to prepare graduates who quickly blend into the industry. With this in mind, I've been asking the Texas State Patrons to identify initial employment positions and potential career paths, within their respective sectors of the industry, that are applicable to a CIM graduate. With that information, we will be mapping the knowledge and skills needed by the industry to each of our courses in the Texas State curriculum. This effort toward continuous improvement will help ensure that our curriculum prepares students to fill those positions identified by our constituents. I see that as a pretty good return on investment.

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**AYAZ AHMED,
PROGRAM
COORDINATOR,
CIM EXECUTIVE MBA**

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

I am a proud member of the CIM program at Middle Tennessee State University. Along with teaching courses at the freshmen, sophomore, junior, and senior levels, I am actively engaged in advising and mentoring CIM students in academics as well as professional development. I am also the program coordinator for the CIM MBA program. In this capacity, I am engaged in marketing the MBA program. I am responsible for recruiting industry professionals to this unique and prestigious program. In addition to these roles, I provide the college of business faculty our industry's perspective in MBA course content development. I act as a liaison between the cohort and the MTSU faculty and administration.

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

As part of my capstone class in concrete contracting, I require my students to create a concrete estimate and a bid for a significant commercial project. This year my students developed a bid for all concrete work for the MTSU science building. This \$147 million multi-level building has more than 245,000 square-

feet of useable space and utilizes decorative concrete throughout the project.

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

Every possible job opportunity which exists in other industries is a possibility in our industry. Exciting careers in ready mix, decorative concrete, precast/pre-stressed industries, cement manufacturing, admixture manufacturing, contracting, and construction equipment are available to CIM graduates. Our students can fill the role of quality control technicians, project managers, supervisors and superintendents, health and safety managers, human resource professionals, estimators and designers, project engineers, sales managers, dispatchers, maintenance technicians, and entrepreneurs.

What is unique about the graduates of the CIM program?

The most unique aspect of the CIM graduates are their level of preparedness to make an immediate impact to their employer's bottom line. The rigorous course work and a very close industry relationship allows the faculty to develop course work that is directly relevant to the industry. Along with being academically prepared, CIM graduates are also ready to adjust to the culture of our industry due to being exposed to the industry from their first semester in the CIM program.

What are your thoughts about the partnership between CIM and its Patrons?

The CIM patrons are the lifeline of the CIM program. They serve the CIM program and ultimately the students by working behind the scenes in providing the financial as well as professional assistance to our students. They are the critical link that keeps the CIM program relevant to industry's needs.



ASSOCIATIONS



INTERNATIONAL
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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.

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.



Eugene Martineau
Executive Director



Frank Craddock
Chairman

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.



Alan Nedza
Vice Chairman



Michael Schneider
Past Chairman



Nicole R. Maher
Treasurer

2013-2014 NSC Leadership

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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