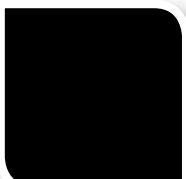




*"Advancing The Concrete
Industry By Degrees."*

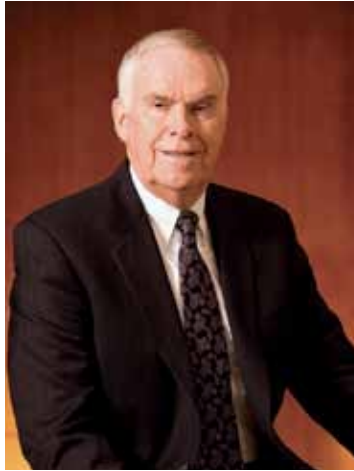
2011-2012 ANNUAL REPORT



- 3** Introduction from Executive Director –
Eugene Martineau
- 4** Message from the Chairman of the Board –
Mike Schneider
- 5** Education Committee Report –
Dr. Rex Cottle
- 6** Marketing/Public Relations Report –
Brian Gallagher
- 7** Auction Committee Report –
Eugene Martineau
- 8** Executive MBA Degree in CIM Program Update
- 9** Finance Committee Report – *Danny Rodgers*
- 10** Long Range Planning Committee Report –
Alan Nedza
- 11** Arizona State University Report
- 14** California State University – Chico Report
- 17** Middle Tennessee State University Report
- 25** New Jersey Institute of Technology Report
- 29** Texas State University Report
- 35** Student Profiles
- 38** Graduate Profiles
- 41** Faculty/Staff Profile
- 42** Patron Profiles
- 44** In Memorium – *Jim Speakman*
- 45** Associations
- 46** CIM Resources
- 47** CIM Background

AFTER FOUR VERY DIFFICULT YEARS, the concrete industry is beginning to show the early stages of recovery. While the industry still has a way to go before it has fully recovered, it is definitely improved and the longer term outlook is positive. The percentage of CIM graduates that were employed in the concrete industry was far greater than the number of college graduates that were able to find any form of employment. This is a strong endorsement of the importance of the program. They recognize that new, well-educated college graduates with a strong industry orientation can contribute greatly to their future success. In the past four years, companies have aggressively downsized their organizations as industry volumes were in free fall. A high percentage of displaced managers have either retired or are pursuing careers in other industries. As the industry continues to recover, the demand for CIM graduates will continue to grow significantly and demand for CIM graduates will exceed the availability. Because of the efforts of the CIM universities, NSC and the local patrons groups, the concrete industry will be much better positioned to rebuild its personnel base with the talent of the CIM graduates.

There are approximately 500 students actively pursuing degrees in CIM. There are a like number of graduates of the program since its inception in 1995 with an impressive 80+ percent retention of graduates working in the industry. This has been made possible due to the concrete industry's continued strong support of CIM through the involvement and financial support of the NSC. Many of the industries' associations and foundations have provided both financial and in kind support to NSC including the American Concrete Institute Foundation, the American Society of Concrete Contractors, the American Concrete Pipe Association, the International Concrete Repair Institute, the National Concrete Masonry Association, the National Precast Concrete Association, the Portland Cement Association, the National Ready Mixed Concrete Association, the Precast/Prestressed Concrete Institute and the RMC Research & Education Foundation.

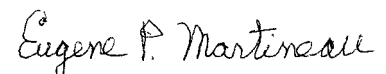


The NSC is charged with providing national oversight, direction and support for CIM. Highlights of the activities of the NSC over the course of the 2011-12 year included:

- Distributing \$435,000 in financial support to program universities.
- In collaboration with Hanley Wood, The World of Concrete and Ritchie Bros. Auctioneers, the NSC conducted the most successful auction ever in 2012 raising in excess of \$600,000.
- The Education Committee continually reviews the program curriculum and through the NSC accreditation plan conducts in depth program reviews at selected program universities annually.
- The MBA Masters Task Force completed development of the exciting new CIM graduate program that will be launched at MTSU in 2012/2013
- The NSC Long Range Planning Committee has put in place a detailed process for the program universities to follow. The plan includes; approved use of NSC funds, individual five year plans with specific goals and objectives, annual budgets for proposed use of NSC funding and audits of actual expenditures.
- The Marketing Committee expanded its efforts through the NSC web site, displaying at industry and educational meetings and conventions, numerous press releases and another outstanding annual report.

The success of the program is due primarily to the unique partnership it has with the program universities and local patrons groups. The efforts of the NSC and the local CIM patrons groups in continuing to promote and grow CIM have been vital to the future of the concrete industry. CIM is definitely fulfilling its commitment to the concrete industry and the NSC will continue its pursuit of the vision of "advance the concrete industry by degrees."

SINCERELY,



Eugene P. Martineau
Executive Director,
CIM National Steering Committee

MESSAGE FROM THE CHAIRMAN



WELCOME TO THE FOURTH CIM PROGRAM ANNUAL REPORT.

It has been another challenging year for our industry, but thanks to the support of all our partners, the CIM program is alive and well. The 2011-2012 CIM Annual Report gives the industry an update of this past year's activities and accomplishments. The report shows the status of all five of our current CIM programs.

Each institution report shows enrollment information, faculty updates/research, student activities/service projects, patrons' group updates and program financial information.

The efforts and work product of these committees allow the CIM program to remain unique within the industry. CIM students are able to complement their classroom education with field trips and attendance at industry events. The students have competed in the ACI student competitions and have done very well and they are very appreciative of the opportunities that have been provided.

The Education committee has had another productive year under the leadership of Rex Cottle. Two more schools, California State University-Chico and Arizona State University, went through the Education Committee's accreditation process. MTSU went through the same process last year. The NSC has adopted guidelines by which each of the five CIM schools determine their own annual funding levels up to \$100,000 per school from the NSC. This funding formula treats both the large and small programs equally and the funding is based on the quality of curriculum, outreach and community service programs, safety, attendance at concrete industry events, local Patron's support and participation by the school's administration.

The Marketing committee, under the leadership of Brian Gallagher, continues to inform and educate the industry about the CIM program. Through the website, social media, and public relations efforts people are able to stay abreast of the latest CIM events. The Long Range Planning committee, under the leadership of Alan Nedza, continues to provide the vision and direction for



the CIM program and rewrote the By-laws which were presented to the NSC for approval. The World of Concrete and Ritchie Bros. continued their support of the annual CIM Auction. Gene Martineau served as chairman of the auction committee which had more than \$600,000 in proceeds. This event has become the major source of income for the CIM NSC providing support to the five CIM programs.

The Executive MBA program at MTSU has been accepting candidates and will start classes in the fall of 2012. One of the prerequisites of the program is that all participants must have been out of school for at least five years. This promises to be one more way for us to provide a steady stream of qualified future leaders.

I would also like to thank all of the local patrons groups which have been the backbone of the CIM programs. These groups continue to provide guest lecturers, sponsor field trips, hire students and graduates and provide financial support.

Over the past few years I have had the opportunity to meet many of the students and listen to their presentations. It has been very exciting to watch them develop and listen to their experiences as interns. It is imperative that we continue to provide opportunities for these students. We must set the example for safety, quality and productivity in order to have the vibrant young leaders that our industry requires. The future of the industry which we all love is in your hands.

Thank you for your continued commitment to the CIM program.

SINCERELY,

Mike Schneider
Chairman, CIM National
Steering Committee



DR. REX COTTLE
Chairman
Education Committee

DURING THE PAST YEAR, the Education Committee has focused on implementing initiatives that will provide structure and enhance sustainability to the CIM program in the future. The Education Committee: (1) continued to review the CIM programs as part of the CIM accreditation process; (2) guided the development of strategic plans from each CIM program; and (3) assisted the programs in developing budget requests based on the new funding criteria.

MTSU's CIM program was reviewed for industry accreditation in 2011. The CIM programs at California State University – Chico and Arizona State University were reviewed for accreditation process in the first half of 2012. The CIM program at New Jersey Institute of Technology will be reviewed in the fall of 2012 and the CIM program at Texas State University will be reviewed in the spring of 2013. The industry accreditation process promotes continuous quality improvement in the CIM programs and ensures the CIM curriculum is consistent and rigorous across all CIM programs and the CIM graduates are prepared to meet the needs of the concrete industry in the future. The program review evaluates each CIM program from its inception to where it is now and recommends improvements.

During this past year, each CIM program developed a five-year strategic plan to improve and to conform to the requirements set forth in the agreements between the NSC and the universities. These five-year strategic plans will be updated annually to respond proactively to ever-changing opportunities. The annual progress report on achieving the strategic objectives by each CIM program will enhance communication between the NSC, local patrons, and the CIM programs. The Long Range Planning Committee will review the strategic plans and annual status updates and report to the NSC.

Since all but one of the CIM programs have received all of the start-up funds pledged by the NSC for the first five years of operation, each program submitted a baseline budget for the 2011-2012 academic year. This summer, the programs submitted reports on how the NSC funds were actually spent in 2011-2012 and proposed budgets for the 2012-2013 academic year to the Finance Committee. After reviewing these documents, the Finance Committee will make a budget recommendation for the coming year to the NSC.

The first class of students in the CIM MBA program at MTSU will begin in the fall of 2012. A task force from the Education Committee worked closely with the College of Business and CIM faculties and university administration to develop the curriculum that will provide a quality graduate educational opportunity for current and future executives in the concrete industry. They have interacted with concrete professionals to develop industry specific applications of business theories and practices to be used in their courses. MTSU is accepting applications for the second class in the CIM MBA to begin in the fall of 2013. To learn more about this unique graduate program log onto www.concrete-mba.com.

The Education Committee is also assessing how our CIM programs can be linked together with live communication. Students from all the CIM programs could receive presentations from industry and academic experts. Faculty and students would be able to interact on relevant concrete industry issues. Such interactive linkage will promote learning and stimulate research among the CIM programs.

Concrete associations have provided valuable information and research that is being used in our CIM courses. The CIM directors and faculty will continue working with the concrete industry associations to incorporate contemporary information. We commend the local patrons, CIM directors and faculty for their dedication to the CIM program and their commitment to our students.

MARKETING COMMITTEE REPORT



BRIAN GALLAGHER

Chairman
Marketing Committee

INCREASING OVERALL AWARENESS of the CIM Program is the primary goal of the CIM Marketing Committee. During 2011-2012, we've developed and implemented an integrated marketing communication program that includes a number of promotional, marketing and public relations activities to build the CIM brand.

In addition, the Marketing Committee provides marketing support for CIM institutions including the sharing of best practices, leveraging marketing efforts, and maintaining CIM brand and message consistency. Our marketing efforts included a significant emphasis on promoting the new Executive MBA program and the annual auction.

The CIM 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:** To help promote the CIM program to the concrete and construction industry, we have developed a series of print and web ads that have run free-of-charge in association and industry publications.
- **Auction Support:** The Marketing Committee remains an instrumental part of the annual CIM auction. We manage a number of activities to help promote the auction including: auction item solicitation, press releases, promotional collateral, advertisements, web marketing and other efforts.
- **Collateral & Promotional Materials:** The Committee produced various promotional materials to support the CIM image and/or brand, including brochures, graphics and other materials. In addition, the Marketing Committee produces the

Annual Report, developed to inform, educate and update stakeholders on national and institutional activities.

- **Events & Trade Shows:** In the fall of 2011, we developed and produced a new trade show booth for CIM. During the last year, CIM exhibited at World of Concrete, NRMCA's ConcreteWorks and Annual Conventions, 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 (parents, guidance counselors, etc.). We also have helped promote the CIM Executive MBA Program with a series of press releases. The Marketing Committee has been publishing the CIM eNews eight times per year, reaching more than 2,000 people with each edition. We also held press conferences at the 2012 World of Concrete. For the last five 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.
- **Website and Social Media:** The Marketing Committee continues to enhance the CIM web presence by adding interesting and relevant content, news and tools. We continued our search engine optimization (SEO) initiatives, and social media efforts. These include using RSS, Twitter, LinkedIn, Wikipedia, Facebook, Google+ and the CIM Blog.

CIM Annual Report Wins Numerous Marketing Awards

In October, 2011 the CIM 2009-2010 Annual Report received a MarCom Honorable Mention award. The CIM 2010-2011 Annual Report received a Gold-level Hermes Creative award.



EUGENE MARTINEAU

Chairman

Auction Committee



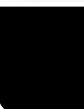
THE 2012 CIM AUCTION held in conjunction with the World of Concrete (WOC) in Las Vegas, Nevada was a huge success with record proceeds in excess of \$600,000 and the highest ever number of donated items. This success was attributable to the efforts of the highly effective auction committee that involved approximately 30 industry leaders. Every member of the committee recognizes that the auction is vital to the continued success of the CIM program. Over the past four years, due in part to the difficult economic conditions affecting our industry, the auction has increasingly become the major source of NSC funding for the CIM program universities. Many of the auction committee members have served on the committee for a number of years. Because of this strong nucleus of members, the committee has become increasingly effective. The committee has developed a game plan to assure a successful auction and in effect meets year round. As soon as the 2012 auction was completed, they began working on 2013.

The auction would not be possible without the support of Hanley Wood and The World of Concrete that provides both the venue and space to conduct the auction. The World of Concrete management insures that the NSC has the full support of the entire WOC staff. All of the promotion for WOC, both in leading up to the event and at the convention center during the actual days of WOC, highlight and advertise the auction. A similar critical element to the success of the auction is the participation of Ritchie Bros. auctioneers. Ritchie Bros. is the premiere auctioneers for the construction industry and they have provided the NSC their expertise in both promoting the auction and by actually being on site conducting the auction. Through Ritchie Bros., we are able to include online participation for people that are not actually on site at the time of the auction. The number of online bidders has continued to increase each year.

Another key element in the continued success of the auction is the increasing number of industry companies that recognize the

importance of the auction 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 Truck and a truck mounted mixer donated by McNeilus. There are many additional high profile donated items including cement or equipment such as laser screeds 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 to the WOC. In addition, there are many exciting travel packages including the opportunity to attend such bucket list sporting events as the Masters, Kentucky Derby and the Indy 500 to name but a few. Further, there are a growing number of exciting vacation trips to New York, San Francisco, Dallas and Phoenix, as well as luxury items like flat screen televisions, laptop computers and jewelry.

Due to the importance of the auction to the continued growth and development of CIM, we encourage the readers to find a way to participate in the 2013 auction.





THE CONCRETE INDUSTRY MANAGEMENT EXECUTIVE MBA DEGREE PROGRAM is the result of many years of close collaboration between Middle Tennessee State University (MTSU), the CIM National Steering Committee and companies in the concrete industry. The program is designed to expand the industry-academic partnership by bringing CIM to the business world through an Executive-type MBA and stand alone in its focused curriculum on the concrete production and concrete construction industries.

This customized MBA is a rigorous, highly interactive degree program that thrives on diversity of cultures with mutual benefit to participants and sponsoring companies. Its major themes are globalization, leadership, strategy, and execution. The program will take participants beyond basics to a true understanding of forces that will shape the concrete and construction industry. Successful graduates should be able to immediately impact their businesses with a unique global, strategic, and operational perspective and be ideally equipped to tackle the most pressing industry issues and help chart a future course of action. Participants will be shown skills needed for leadership and team building and motivational skills to create synergy

and energize their teams with the aim of achieving excellence throughout the organization. With the need for middle management talent in the industry as the economic recovery gets underway, the CIM Executive MBA program will provide those managers the industry will need.

Beginning in October, the 18-month-long program will be administered in 10-week blocks. The format will include distance learning, webinars and on-campus visits to MTSU. This distinctive program will be a partner structure for networking and sharing experiences, while fostering a collaborative learning environment and allowing national recruitment with limited campus visits that are intensive and focused.

According to Dr. Heather Brown, Director and Associate Professor of the CIM program at MTSU, "The Executive model for specific industries has been developed at other institutions for banking, healthcare, education and technical fields. It is our intention to make this a top-notch program that serves the entire country with a concrete and construction-infused MBA."

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

The total cost of the CIM Executive MBA program is \$39,000 per participant. If you are interested in learning more about the CIM MBA, please contact Ayaz Ahmed, Associate Professor and Director of the MBA program for the concrete industry at ayaz.ahmed@mtsu.edu, (615) 898-5715 or (678) 372-1493 (cell) or Dr. Heather J. Brown at heather.brown@mtsu.edu, (615) 904-8060.





DANNY RODGERS

Chairman
Finance Committee

WE ARE PLEASED TO REPORT that during the fiscal year 2011/2012 the National Steering Committee (NSC) for Concrete Industry Management (CIM) continued to operate on a solid financial basis. Proceeds from the 2012 World of Concrete (WOC) auction exceeded our expectations and when combined with the continued support of our sponsoring organizations, total revenues resulted in an increase when comparing actual vs. budgeted revenues. Strict adherence to budgeted expenses resulted in a modest increase to reserves compared to a planned balanced budget. The five-year financial model that was put in place in 2008/09 provides a guide for NSC operations and has resulted in an overall healthy economic picture.

As of June 30, 2012, the NSC had total assets of \$1,077,558, which consist primarily of cash, money market funds, and AA municipal bonds. We have provided our auditors with all financial records for our fiscal year ending June 30, 2012 including all outstanding invoices and checks that have not as yet cleared. Consequently, there are only some minor auction related expenses outstanding, so the needs for prior period accruals are minimal. We have no reason to expect anything other than a favorable unqualified opinion from our auditors.

Revenues for the year totaled \$651,776 and were comprised of the following:

- **Sponsor Organizations:** \$50,000
- **Net Proceeds Auction:** \$598,915
- **Earned Interest:** \$2,851

Expenses for the year totaled \$637,126. By far our major use of cash was payments of \$460,000 to our five program universities. The remaining expenditures were for administration, marketing, program development and auction. The net result of revenues minus expenses resulted in an increase in reserves of approximately \$14,650.

The NSC board of directors has acknowledged if CIM is to continue to grow and prosper that there will be a continuing need for ongoing support of the program universities. Due to the sound financial management of the NSC and the reserves that have resulted from a well conceived and executed financial plan, the NSC is in a position to continue to supply a portion of the financial support necessary to sustain and grow CIM. Given the continued support of the NSC, successful annual WOC auctions and the continued commitment of the local concrete industry patron groups, CIM should be adequately funded to continue its mission of “advancing the concrete industry by degrees.”





ALAN NEDZA

Chairman

Long Range Planning Committee

WE CONTINUE TO IMPLEMENT the work plan for the Long Range Planning Committee (LRP) which was approved at the Board of Directors meeting held in Las Vegas, Nevada in February, 2010. Due to the tough economic environment some adjustments have been made, but the vision and mission statements that were articulated in the original plan are still relevant today.

The vision of the CIM program is to be a resource to provide the concrete industry with professional leaders for tomorrow. We look to improve our industry one student at a time. 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 Concrete Industry Management institutions and local industry patrons groups, dedicated to a collaborative process to accomplish this goal.

Not only has the vision not changed but our six strategic goals, which are listed to the right, are still the main focus of the committee.

- Determine the emerging market needs for the Concrete Industry Management graduates regionally, nationally, and internationally and ensure the network of institutions is sufficient to meet those needs.
- Preserve and protect the value of the Concrete Industry Management brand.
- Determine the scope and outreach of the Concrete Industry Management Program.
- Promote the use of the Concrete Industry Management university network to conduct coordinated research that benefits the concrete industry.
- Determine the appropriate allocation of National Steering Committee funds in support of the Concrete Industry Management Program.
- Determine the long-term goal and leadership succession of the National Steering Committee.

Besides these goals we also plan to roll out the new bylaws for the group since the current bylaws are several years old and have not changed since the inception of the CIM program. There have been several meetings and conference calls and we are close to presenting the final version to the full board for approval.

Even though the economic environment has been tough, I am happy to report that the industry and its associations continue to support the CIM program. As we all know people are our most important asset and a program such as CIM, which produces professional concrete managers, is even more vital than in the past. The challenges for our business will continue but the construction industry will be well positioned with individuals that have the necessary background and passion for our business to build a better tomorrow. There is a saying that the best way to predict the future is to create it. That is exactly what we are doing at CIM by graduating individuals to ensure the industry has the necessary leadership for a bright tomorrow.

DR. JAMES ERNZEN
ASU CIM
Program Director



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PROGRAM ENROLLMENT

	Undergraduate	Graduate	Total
Engineering College	5,205	2,290	7,015
School of Construction	258	43	301
CIM Program	46	0	46

Number of CIM Majors:

46 majors

Number of Graduates:

December 2011: 1

May 2012: 6

Summer 2012: 3

Total graduates in the industry: 18

Graduates currently employed: 17

FACULTY PROFESSIONAL ACTIVITIES

- Jim Ernzen and faculty associate Jim Rogers attended and escorted student competition teams to both spring and fall conventions of the American Concrete Institute.
- Ed Weaver organized and chaperoned 12 CIM students who participated in the events at World of Concrete (WOC) in Las Vegas in January 2012. Jim Ernzen and Jim Rogers attended WOC as well.

- Jim Ernzen escorted four CIM students to the 2012 annual convention of the National Ready Mixed Concrete Association held in Savannah, Georgia.
- Jim Ernzen attended the annual convention of the Arizona Rock Products Association in June 2012.
- Jim Rogers represented the CIM program at the Annual Arizona Teachers Convention in July 2012.
- Jim Ernzen attended the PCA Professors Seminar in July 2012 at PCA Headquarters in Skokie, Illinois.

PROGRAM SUPPORT

Scholarships

The Southwestern Patrons continued their outstanding support to the CIM program. In both the spring and fall semesters, the patrons awarded \$36,250 in scholarship money in 45 separate awards to CIM students. The average academic GPA for those scholarship students was 3.35.

Summer Internships

ASU had 28 students needing internships in summer 2012 as part of their curriculum path to stay on schedule for graduation. A total of 25 found work in the industry (89%): 13 students found work with concrete or general contractors and 12 students found work with producers and testing laboratories.

Student Educational, Marketing and Community Service Activities

- The CIM students hosted an annual “Welcome Back” barbeque for new students coming into the program in August.
- The ACI student chapter sponsored two teams for the Arizona ACI Chapter bowling event held each August.
- Four students assisted with the AZ-ACI-ICRI annual golf tournament in September where they hosted the second annual “Marshmallow Driving Contest.”
- Over 35 CIM students attended the September ACI meeting to hear PCA economist Ed Sullivan give a ‘state of the industry’ presentation.
- The ACI student chapter sponsored a team in the Pervious Con-

crete Competition at the fall 2011 ACI convention. ASU CIM students finished 4th out of 28 competing teams.

- The ACI student chapter assembled and placed two concrete benches for a local senior community in the Phoenix area in October.
- 12 students registered for and passed the NRMCA Pervious Concrete Certification exam in October 2011.
- Several CIM students helped host a CIM concrete booth at Arizona Construction Career Days in October 2011.
- In December, the ACI student chapter organized a Christmas toy drive. By teaming with a local contractor association, they helped collect over \$20,000 in toys which were donated to a local children’s hospital.
- Arizona State University was recognized in January 2012 as an “ACI Excellent University” by the American Concrete Institute due to the efforts of the CIM program students.
- 12 CIM students, three faculty and one staff member attended the WOC 2012 convention in Las Vegas. ASU invited two high school faculty and three high school students from the local area to attend the convention. As a result, one of those three students has enrolled in CIM at ASU for the fall of 2012.
- The ACI student chapter participated in the Concrete Bowling Ball Competition held during the Spring 2012 Convention of the American Concrete Institute in Dallas, Texas. The team placed 8th out of 30 teams competing.
- CIM student Josh Marriot entered a decorative concrete medalion in the Artistic Concrete Competition, also held at the ACI Spring 2012 Convention in Dallas. Josh’s submission won 3rd place among 10 entries.
- The ACI student club created an educational hands-on activity in the 105 classroom. Each semester the students create benches that are form cast, finished, stained and erected. This spring the club erected two benches in the school area.

CIM Patron Involvement

- The Southwestern Patrons continue their active support of the CIM program both in and outside the classroom. The Patrons organization meets quarterly with the program faculty to ensure needs and expectations on both sides are met.

- The Patrons organization provided faculty associates who taught or co-taught five CIM classes and two construction school classes.
- The Patrons made approximately 40 guest-speaking appearances in the CIM courses this past year to share their expertise. One of those speaking engagements resulted in the students casting a concrete tabletop. Ken Riley with WR Grace taught the class where the tabletop was cast and then Tamryn Doolan of Surface Geltek provided follow-up instruction in the art of decorative staining and etching.
- The AZ-ACI chapter, which is made up primarily of CIM Patrons, assisted in providing CIM program students with certifications in Field Grade 1, Flatwork Finisher Technician, Aggregate Level 1 Strength Technician, and Laboratory Level 2 Technician.
- The CIM patrons provided over 20 field trips during the school year to cement plants, ready-mix concrete and aggregate operations, block and paver plants, testing laboratories, and concrete construction sites.

FINANCIAL INFORMATION

Income

	ASU
Industry/Patrons	\$60,000
National Steering Committee	\$100,000
University	\$191,000
Scholarships*	\$36,250
Total Income	\$387,250

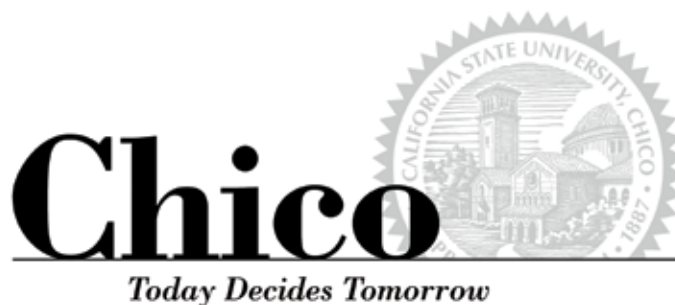
Expenses

	ASU
Salaries	\$287,000
Operating	\$32,600
Travel	\$24,300
Scholarships	\$36,250
Total Expenses	\$380,150

*Scholarships are funded by patrons



DR. TANYA KOMAS
CSUC CIM
Program Director



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2011-12 ENROLLMENT

Number of majors	
2011-2012	48

Graduates:

Spring 2012 – 10 graduates

PROFESSIONAL ACTIVITIES

Research

Dr. Komas:

- Chico State CIM Summer Field School at Alcatraz Island, Golden Gate National Recreation Area, National Park Service: 8 students in summer 2011: NPS - \$20,520; In-Kind: \$50,000.
- “Advanced Highway Surface Preparation/Protection Treatment: Sealers and Hardeners,” the leading cooperative Caltrans/Industry concrete pavement project (ongoing).
- Co-directing “Stadium Service Life Prediction Partnership” for industry and academic training, Stadium Lab and University Alliance (ongoing).

Tim Hostettler:

- Co-directing “Stadium Service Life Prediction Partnership” for industry and academic training, Stadium Lab and University Alliance (ongoing).



Presentations

Dr. Komaz:

- CIM and Alcatraz Field School Presentation, Asocreto – online presentation to six countries and multiple universities in South America
- NRMCA Concrete Works, San Diego
- ICRI Carolina's Chapter – Concrete Repair

Industry Association Participation

Dr. Komaz:

- ACI Strategic Development Council Vision 2020
- International Concrete Repair Institute (ICRI) Board of Directors
- ICRI Evaluation Committee Chairman
- ICRI Certification Committee - Co-authoring "Surface Repair Inspector Certification" – planned release to coincide with ACI Repair Code
- Member of ICRI Education, Finance, Sustainability Committees
- Concrete Promotion Council of Northern California
- Western States Bridge Preservation Task Group
- Pavement Preservation Expert Task Group - American Concrete Paving Association Southwest Chapter/Federal Highway Administration

Tim Hostettler:

- ACI Northern California Chapter

CIM Program Volunteer Service

Students and faculty from Chico State contributed a total of **11,544 total hours of volunteer service** for 2011-12. Projects Included:

- Red Barn Preservation Field School, Golden Gate National Recreation Area, National Park Service. NPS contract (\$88,000) for materials for onsite, hands-on student volunteer project – "Barn Raising" to rehabilitate 100 year old historic barn with new concrete foundation.
- Alcatraz Field School
- Habitat for Humanity – substantial work on two structures
- Patrick Ranch Visitors Center construction
- Senior Capstone projects

Student Projects/Certifications

ACI Field Testing Technician Grade I; ACI Flatwork Finisher; ICRI Floor Moisture Certification; Concrete Canoe Competition.

Chico State Senior Capstone Projects: "Deicing Chemicals on Concrete" – with international chemical and concrete company support; "International Concrete Repair Institute's 'Surface Repair Inspector Certification' Research and Testing" – research and test method development, presentation to ICRI and ACI Committees, ACI Tech Note - under consideration; "Precast Design and Construction of Prototype Fuel Tank Saddles" – with regional precast company; "Graffiti Removal and Mitigation for 'Diana' Statue" – with Golden Gate National Recreation Area (GGNRA); "Recycled Tile as Aggregate Replacement"; "Alcatraz Field School Project Planning, Scheduling, and Estimating"; "Design and Construction of School Children Amphitheater at the Nature Center" – with nature center staff, board and City of Chico; "The '5 S' System for Sustainable Facility Management"; "Exterior Post-Tension Strengthening of Concrete Benches" – with Chico State; "Sutro Heights Concrete Railing Evaluation and Project Plans and Specs" – GGNRA; "Palace of Fine Arts Maiden Statue Repair Evaluation and Project Planning" – City of San Francisco; "Crack Resistant Admixture Lab Testing" – with international chemical and concrete companies.

Student Club: CIMSS (Concrete Industry Management Student Society)

CIM Patron golf tournament; Campus Preview Day; Numerous student social outings.

PROGRAM SUPPORT

Scholarships

Chico State CIM Patrons provided:

Fall 2011: 15 students, \$11,300 awarded
Spring 2012: 18 students, \$15,250 awarded

Internships

Mentored 17 students during summer 2011 in following fields:

Ready Mix - 3
Cement - 2
Precast - 1
Coatings - 1
Contracting/Repair - 8
Lab R&D - 1
Association - 1

CIM & Marketing Activities

Dr. Komas:

Three CIM National Steering Committee meetings; two Chico State Patron Meetings/Founder's Dinners; two Chico State Patron Officer's meetings, Sacramento; World of Concrete; two ICRI meetings chaperoning Chico and other CIM school students; advisor to all Chico State CIM students; Chico State Preview Day.

Tim Hostettler:

Chico State Preview Day; two Chico State Patron meetings/Founder's Dinners, one National Steering Committee meeting, Concrete Promotion Council of Northern California – Member; NRMCA Conference; Patrick Ranch Project Leadership Team; Bob Bauman Memorial Golf Tournament organizational team – proceeds go to CIM scholarship; CIM Student Society advisor; CIM Lab Coordinator; CIM Internship Coordinator.

Doug Guerrero, Chico State CIM Patron Chairman:

Two Chico State Patron meetings/Founder's Dinners; two Chico State Patron Officer's meetings; three CIM National Steering Committee Meetings; held meetings and conducted tours of campus for prospective and incoming students; participated in class lectures several times during year; participated in campus Preview Day; built strongest Patron participation year to date during 7th year as volunteer Chairman; elected to Chico State Foundation Board of Governors and currently serves as Chairman.

Mike Ward, Dean, & Jerry Hight, Assistant Dean

Two Officer's and Executive Committee Meetings, two Chico State Patron Meetings/Founder's Dinners, three National Steering Committee Meetings.

Student and Faculty Travel

Student travel to industry conferences and meetings: ACI, ICRI, Concrete Décor Show, NRMCA's ConcreteWorks - San Diego, NRMCA Convention - Orlando, World of Concrete, PCI, National Concrete Masonry Show/ICON Expo, SNCA, 3D Digital Documentation Summit – Presidio, San Francisco, multiple Caltrans and regional association meetings.

Involvement of Patrons/Industry

Fall Chico State CIM Patron Meeting and Founder's Dinner in conjunction with National Steering Committee Meeting and Chico State Program Review (four days of events with over 100 attendees for various events and dinner); Spring Chico State CIM Patron Meeting (50 Patrons attendees) and Founder's Dinner (70 Patron and guest attendees); Second Annual CIM Student Society Golf Tournament; Patron panel judges for internship presentations and Senior Capstone presentations, numerous guest lectures in classroom and lab; provided substantial materials and in-kind contributions of time for laboratory coursework and special projects at WOC, community service projects, Preview Day, and Alcatraz.

FINANCIAL INFORMATION

Chico State Income/Expenses 2011-12

Income

	Chico State
Patrons	\$159,817
Patron Scholarships	\$27,300
National Steering Committee	\$100,000
University	\$106,786
Total Income	\$393,913

Expenses

	Chico State
Salaries	\$197,038
Operating/Equipment	\$91,874
Travel	\$60,823
Patron Scholarships	\$26,550
Total Expenses	\$376,285

MIDDLE TENNESSEE STATE UNIVERSITY

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



DR. HEATHER BROWN
MTSU CIM
Department Chair & Professor

PROGRAM ENROLLMENT

Semester	2009-10	2010-11	2011-12	2012-13
Fall	415	306	259	187
Spring	386	303	226	200 (est.)

GRADUATES

Number of Graduates:

Fall 2011 – 50

Spring 2012 – 33

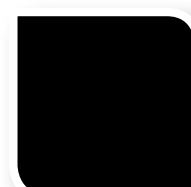
Summer 2012 –6

MTSU CIM Patrons Board 2011-2012

Paul Ozinga	President	Ozinga Ready Mix
Kyle Weatherly	Vice President	Stalite, Inc.
Patrick O'Connell	Secretary/ Treasurer	Cemex

Awards

- ACI Excellent University
- Dr. Brown - CBAS Excellence in Service 2011
- Dr. Brown: 1st place - Big Beam Competition, ASCE Regional Conference
- Dr. Brown: 3rd place - Surveying Competition, ASCE Regional Conference



- Dr. Brown: 1st place - Hydraulic Rocket, ASCE Regional Competition
- Morton: 1st place - Bowling Ball Competition, ACI International Convention

Student Travel

Event	Location	Number of Students/Chaperone
ASCC	Grand Rapids, Michigan	3/Brown
PCI	Salt Lake City, Utah	Dr. Knight
ACI	Cincinnati, Ohio	Dr. Brown
NRMCA	San Diego, California	8/Dr. Knight
Command Alkon	Las Vegas, Nevada	2
World of Concrete	Las Vegas, Nevada	30/Dr. Brown, Green
Concrete Décor	San Antonio, Texas	8/Huddleston
NRMCA	Savannah, Georgia	6/Huddleston
ASCE Competition	Tallahassee, Florida	14/Huddleston
ICON Expo	Orlando, Florida	4/Dr. Brown
AGC	Hawaii	3
ACI	Dallas, Texas	2/Dr. Brown
ICRI	Canada	2
IEEE/PCA	San Antonio, Texas	4/Dr. Brown
Study abroad	Honduras	5/Morton

Funding

New Funding - \$355,400

- Knight, Brown, Yang: Evaluation of Thin Overlay Systems for Concrete Bridge Decks and Pavements, Tennessee Department of Transportation (TDOT) & Federal Highway Administration (FHWA), \$82,000, August 2011-July 2013
- Brown: CIM Annual Golf Tournament, \$45,000, May 2, 2012
- Brown: CIM NSF Funding, \$100,000, 2011-2012
- Brown: Forta Fiber Shrinkage/Pervious concrete project, \$1,100
- Brown: Concrete Supply Sand Study, \$3,600
- Brown: Bauer Dam Mix Design Study, \$2,100
- Brown: RMC Pervious Compilation Update, \$5,000
- Yang: KPG Americas Crack Repair Study, \$2,100
- Ahmed: Innovation in Instructional Technology Grant; Instructional Technologies Development, MTSU, May 8, 2012, 4 months, \$22,500
- Brown: Small Business Development TMSTEC Internship Grant, \$42,000
- Brown: Academic Common Market Recruiting Grant, \$5,000

Existing Funding

- Yang and Brown: TDOT Rapid Repair Materials for Bridge Decks, \$88,000
- Brown: CIM MBA Startup Funding, \$45,000, 2011-2012
- Brown: MTSU Foundation Special Projects Funding, \$7,000

Pending

- Morton and Brown: STEM Games, TUES Grant, National Science Foundation, \$660,000

Not Funded

- Yang and Knight: Developing High Performance No-Shrink Grouts for Anchoring Precast Concrete Panels of Bridge Decks, Tennessee Department of Transportation (TDOT) & Federal Highway Administration (FHWA), \$76,000
- Ahmed: Access and Diversity Grant; Tennessee Board of Regents, \$40,000

Marketing/Promotion

- Green and Bradford: Departmental Fair, Sept. 1, MTSU campus
- Brown and Green: University 1010 Lecture, Sept. 6, MTSU campus, guest speaker
- Huddleston and Green: University 1010 Lecture, Sept. 19, MTSU campus, guest speaker
- Knight, Brown and Green: University 1010 Lecture, Sept. 21, MTSU campus, guest speaker
- Green: MTSU Fall Preview Day, Sept. 24, MTSU campus
- Brown: University 1010 Lecture, Sept. 27, MTSU campus, guest speaker
- Green: MTSU Admissions Chattanooga Student Reception, Sept. 27, The Mill of Chattanooga
- Green: University 1010 Lecture, Sept. 28, MTSU campus, guest speaker
- Brown and Green: University 1010 Lecture, Oct. 3, MTSU campus, guest speaker
- Green: MTSU Admissions Nashville Student Reception, Oct. 4, LP Field
- Green: Rutherford County College Fair, Oct.10, Miller Coliseum, Murfreesboro, Tenn.
- Huddleston: University 1010 Lecture, Oct. 10, MTSU campus, guest speaker
- Huddleston: University 1010 Lecture, Oct. 11, MTSU campus, guest speaker
- Green: Oakland High School Career Exploration Day, Oct. 11, Murfreesboro, Tenn.
- Green: MTSU Admissions Knoxville Student Reception, Oct. 18, Knoxville Museum of Art
- Ahmed: University 1010 Lecture, Oct. 19, MTSU campus, guest speaker
- Green: University 1010 Lecture, Oct. 24, MTSU campus, guest speaker
- Green: Metro Nashville Public Schools Career Exploration Fair, Oct. 27, Convention Center, Nashville, Tenn.
- Green: MTSU Fall Preview Day, Oct. 29, MTSU campus
- Green: University 1010 Lecture, Nov. 3, MTSU campus, guest speaker
- Green: MTSU Admissions Memphis Student Reception, Nov. 9, Memphis Botanical Gardens, Germantown, Tenn.

- Green: MTSU Admissions Jackson Student Reception, Nov. 10, Doubletree Hotel, Jackson, Tenn.
- Green: University 1010 Lecture, Nov. 11, MTSU campus, guest speaker
- Green: University 1010 Lecture, Nov. 14, MTSU campus, guest speaker
- Green: University 1010 Lecture, Feb. 8, MTSU campus, guest speaker
- Green: CIM Spotlight in MTSU Counselor newsletter, Feb.
- Green: Knox County Career Day, Feb. 23, Knoxville Civic Center
- Sara Andon, CIM Graduate Assistant: CEFGA College Fair, Mar. 15-16, Georgia International Convention Center, Atlanta, Ga.
- Green: MTSU Spring Preview Day, Mar. 24, MTSU campus
- Green: Lunch with Tennessee Counselors, Mar. 30, MTSU campus
- Green: University 1010 Lecture, Apr. 4, MTSU campus, guest speaker
- Green: MTSU Spring Preview Day, Apr. 21, MTSU campus
- Ahmed: MTSU Spring Preview Day, May 19, MTSU campus
- Green: MTSU Customs Ports of Call, May 23, MTSU campus
- Green: MTSU Customs Ports of Call, May 31, MTSU campus
- Huddleston: MTSU Customs Ports of Call, Jun. 5, MTSU campus
- Huddleston: MTSU Customs Ports of Call, Jun. 12, MTSU campus
- Ahmed: MTSU Customs Ports of Call, June 15, MTSU campus
- Green: MTSU Customs Ports of Call, June 21, MTSU campus

Company-Sponsored Socials and On-Campus Interviews

Company	Social Date	Interviews
Turner Construction	10/3/2011	10/21/2011
Questmark	10/4/2011	10/5/2011
Lehigh Hanson	10/11/2011	10/13/2011
Lafarge	10/26/2011	10/27/2011
Argos USA	11/15/2011	11/16/2011

Company	Social Date	Interviews
Blue Dot Readi-Mix		10/11/2011
U.S. Mix		10/26/2011
Rotondo Weirich		1/26/2011
IMI		2/6/2012
Martin Marietta Materials		2/28/2012
Lehigh Hanson	3/13/2012	3/14/2012
McCarthy Concrete	3/12/2012	3/13/2012
Vector Group	3/19/2012	2
Maschmeyer Concrete	4/2/2012	4/2/2012
W.R. Grace	5/1/2012	5/Morton
Bama Concrete Products		4/18/2012

Job Postings

174 positions received

- 135 full-time openings, 30 internships, 9 part-time jobs
- 55 positions in the state of Tennessee
- 49 companies posted multiple positions; 118 unique companies posting at MTSU

- A.H. Harris & Sons
- ACME Block and Brick
- Advance Testing
- AGC
- Alabama Pigments Company
- Allied Concrete Products
- American Concrete Products
- AMSYSO
- Architectural Concrete Casting
- Ashgrove Packaging
- Baker Concrete
- Barger and Sons

- Barnard Construction
- Batch Trainees
- Bauer
- Bell & Associates
- Beyond Concrete
- Blinds R Us
- Blue Dot Readi Mix
- Bonded Filter
- Brayman Construction
- Breckenridge Material Company
- Brooks and Mazzola
- CalPortland Company
- Cemex
- Charah, Inc.
- Concrete Results
- Concrete Supply Co.
- Contractors Supply & Equipment
- Custom-Crete
- Delaware Valley Concrete
- Delta Companies
- DuBrook Inc.
- Dura-kast Concrete Products
- DVC
- ECS Southeast
- ELE International
- Gate Precast
- GeoServices
- Geotesting Express
- Gerdau
- Habitat for Humanity
- Hanes Geocomponents
- Hanley Wood
- Hemlock Semiconductor
- Hyde Concrete
- imi
- Irving Materials
- Jackson Precast
- Kerkstra Precast
- Kiewit
- L. L. Geans
- Lehigh Hanson
- Lewis Construction
- Lithko Contracting
- Lyman Richey
- Magotteaux
- Martin Marietta Materials
- Memphis Ready Mix
- Metallic Illusions
- Metro Ready Mix
- MMC Materials
- Nansemond Precast Concrete
- Nashville Concrete Artist
- NPCA
- Oakley Construction
- Oldcastle Building Systems
- Ozinga
- P&D Architectural Precast

- Palmetree Construction
- Patriot Engineering
- Procon Inc.
- Propex
- QC Technician
- Questmark
- QUIKRETE
- Ready Mix USA
- Real Green Solutions
- Rock Hill Concrete Co
- Rose Construction
- San Benito Supply
- Schuster Concrete
- Sequatchie
- Seretta Construction
- Sherman Industries
- Silvi Concrete
- Solida Technologies
- Solomon Colors
- Southern Company Services
- Southern Concrete Products
- Southern Consulting
- Stage Front Presentation Systems
- Standard Concrete Products
- T&T Construction
- TBR
- TDK Construction
- Tech USA
- Tekla
- Terracon
- TetraTech
- TNS Partners for High Industries
- US Concrete On-Site
- US MIX
- Venus International
- W.R. Grace
- Wayne Concrete
- William S. Long Inc.
- Wilson Ready Mix

Presentations

- Brown: Nebraska Concrete and Aggregates Association, Pervious Concrete, Omaha, Nebr., Apr. 26, 2012
- Brown: Women In Concrete Luncheon, Las Vegas, Nev., Jan. 2012
- Brown, Alabama and Mississippi Concrete Convention, Sandestin, Fla., Jun. 2, 2012
- Brown: Permeable Pavement Trends, Actus Lend Lease, Nashville, Tenn., Feb. 24, 2012
- Brown: "Development, Implementation and Use of Field Infiltration In Place of Pervious Concrete," American Society for

Testing and Materials (ASTM) Symposium on Pervious Concrete, Tampa, Fla., Dec. 2012

- Knight: "Effect of Age on Pullout Strength of Headed Studs," Precast/Prestressed Concrete Institute, Salt Lake City, Utah, Oct. 24, 2011
- Knight: "Snow Creek Bridge Deck Replacement, TDOT's First Use of Full Depth Prestressed Precast Concrete Panels," Precast/Prestressed Concrete Institute, Salt Lake City, Utah, Oct. 25, 2011
- Yang: Li, W., Yang, Z., Castro, J., Pour-Ghaz, M., and Weiss, J., "Freeze-Thaw Damage: The Role of Water Absorption and the Role of Cracks in Concrete," ACI Fall Convention, Cincinnati, Ohio, Oct. 18, 2011
- Brown, ASTM C1701 and ASTM C1688 Update, "Pervious Concrete Experience," TCA, Jun. 23-24, 2011
- Brown and Knight: ACI 318-11, "Building Code Requirements for Structural Concrete," Middle Tennessee Codes Officials Association, Murfreesboro, Tenn., Aug. 18, 2011
- Brown: CIM Update, Tennessee Concrete Association, Nashville, Tenn., Feb. 2012

Publications

- Knight: "Effect of Age on Pullout Strength of Headed Studs," The National Bridge Conference and PCI Annual Convention Proceedings (electronic), Oct. 2011
- Knight: "Snow Creek Bridge Deck Replacement – TDOT's First Use of Full Depth Prestressed Precast Concrete Panels," National Bridge Conference and PCI Annual Convention Proceedings (electronic), Oct. 2011
- Yang, Z.: "Frost Damage Mechanisms and Durable Pervious Concrete Design," ACI SP 282 – The Leading Edge for Pervious Concrete, No. 7, pp.16, Dec. 2011
- Brown: Crouch, L. K. and Brown, H. J., "Evaluating Polish Resistance of Tennessee Bituminous Surface Aggregates, Pavement Performance: Trends, Advances, and Challenges," Dec. 5, 2011 in Tampa, Fla.; STP 1555, B. Choubane, Guest Editor, pp. 1–19, doi:10.1520/STP104347, ASTM International, West Conshohocken, Penn., 2012
- Brown: Brown, H.J., Tyner, J., Otter, R., Gilson, S., Weatherly, J. and Pilon, B., "Measurement of TSS and other Pollutant

Removal by a Pervious Concrete System,” ACI 522, The Leading Edge of Pervious Concrete, SP 282-2, Nov. 2011

- Knight: “Tennessee Lime-Fly Ash Stabilized Base Using a High Loss-on-Ignition Fly Ash,” Journal of ASTM International (JAI), Apr. 2012
- Brown: “Development, Implementation and Use of Field Infiltration In Place of Pervious Concrete,” American Society for Testing and Materials (ASTM), STP1551 on Symposium on Pervious Concrete, Jun. 2012

Non Peer-Reviewed Publications

- Yang and Brown: Yang, Z., Brown, H., and Huddleston, J., “Development of Patching Materials for Rehabilitation of Surface Distresses in Concrete Bridges in Tennessee,” Final Report, Submitted to the Tennessee Department of Transportation, Department of Concrete Industry Management, Middle Tennessee State University, Oct. 2011
- Yang and Brown: Yang, Z. and Huddleston, J., “Use of T-port System for Pressure Injection Crack Fill of Concrete Structures,” Final Report, Submitted to KPG Americas, Inc., Department of Concrete Industry Management, Middle Tennessee State University, May 2012
- Brown: MTSU Tree Sponsor Project, Tennessee Concrete Magazine Summer/Fall 2011 Vol. 25, No. 2
- Brown: Global MBA for the Concrete Industry, Tennessee Concrete Magazine, Winter 2011/12, Vol. 25, No. 3
- Brown: CIM ACI Student Chapter Bringing Home the Gold, Tennessee Concrete Magazine, Spring 2012, Vol. 25, No. 4

Undergraduate Research Activities

- Yang: 12 students, CIM 4200 on the project “Crack repair of concrete structures,” requested by KPG Americas Inc., spring 2012
- Yang: 9 students, CIM 4200 on the project “Developing high performance steel-fiber reinforced self-consolidating concrete,” requested by Bekaert Corporation, fall 2011
- Brown: 3 students, CIM 4200 on the project “RCC Surface Characterization,” sponsored by Lafarge North America
- Brown: 2 students, CIM 4200 on the project “North Carolina Pit Sand Characterization,” sponsored by Concrete Supply Company

- Brown: 2 students, CIM 4200 on the project “Fiber Influence on Pervious Concrete,” sponsored by Forta Fiber
- Brown: 2 students, CIM 4200 on the project “Plastic Shrinkage Cracking for Various Fiber Dosages,” sponsored by Forta Fiber
- Brown: 1 student, “Tenn. Freeze Thaw Weather Related Damage to Residential Concrete,” sponsored by TCA
- Brown: 1 student, “Bauer Center Hill Dam Mix Optimization,” Alex Martin, Research
- Morton: 16 students on various concrete related projects in CIM 4200
- Fulks: 3 students did research projects vs. business projects for CIM 4910

Undergraduate Internships

- 71 total students for summer 2011, fall 2011 and spring 2012

Experiential Learning

- Morton: Study Abroad Trip to Honduras with 5 CIM students, May 2012
- Brown: Haiti Internship, 2 students, July 2011

Service

- Ahmed: Fall 2011, University 1010 guest speaker
- Ahmed: Fall 2011, CIM Social; student learning
- Ahmed: Spring 2012, CIM Social; student learning
- Ahmed: Apr. 25, 2012, Hosted cultural attaché of the Sultanate of Oman at MTSU for recruiting
- Ahmed: May 2, 2012, Hosted Vice Governor of Technical and Vocational Training Corporation of Kingdom of Saudi Arabia to promote MTSU and recruit students from KSA
- Ahmed: Spring 2012, World of Concrete, MBA in Concrete recruiting
- Ahmed: Spring 2012, NPCA Convention, MBA in Concrete recruiting
- Ahmed: Spring 2012, Embassy of Sultanate of Oman, International undergraduate and graduate recruiting
- Ahmed: Spring 2012, Embassy of the Kingdom of Bahrain, International undergraduate and graduate recruiting
- Brown: Cane Ridge High School 8th and 9th grade Career Fair, Feb. 2012
- Brown: Rutherford County Elementary School Running Track

- Project Manager, Blackman Elementary, McFadden Elementary, Rock Springs Elementary, \$35,000 projects
- Brown: Nine CIM Industry Trips – ASCC, ACI (Fall and Spring), NSC (summer, fall and spring), NPCA, NCMA, ASTM
 - Brown: CEFGA Atlanta Recruiting Trip, Mar. 2012
 - Brown: BASF Repair Seminar Host, Apr. 18, MTSU
 - Brown: Women In Concrete Luncheon Host, Apr. 18, MTSU
 - Brown: Dean's Search Committee
 - Brown: MTSU Athletics Renovation between AMG and Murphy Center, May 2012; provided project management and donated labor for \$15,000 renovation to parking area near arena.
 - Brown: Public Service Committee
 - Brown: Research Council Committee
 - Brown: Non-Instructional Assignment Committee (Special Task)
 - Brown: Chaperone for Three Plant Tours with MBA Faculty
 - Brown: ABET Accreditation Panel Member, Texas State University, Oct. 23-25, 2011
 - Brown: ACI 522 Task Group Chairman
 - Brown: ASTM C09.49 Member
 - Brown: Member and Secretary, National Pervious Concrete Pavement Association
 - Brown: Reviewer, MTENG-1261R2, "Self- Solidification/Stabilization (S/S) of Heavy Metal Wastes (HMWs) of the Class C Fly Ash (CFA)-Based Geopolymers," for the Journal of Materials in Civil Engineering.
 - Brown: Reviewer, MTENG-1264, "Understanding the Regional Context of Sustainable Concrete in Asia: Case Studies in Thailand and Korea," for the Journal of Materials in Civil Engineering
 - Brown: Reviewer, "Pervious Concrete and Its Application," Zhongnan Song, Yunxing Shi
 - Brown: Reviewer, Ms. Ref. No.: CONBUILDMAT-D-12-00118, "Incorporation of Phase Change Materials in Cementitious Systems via Fine Lightweight Aggregate Construction & Building Materials"
 - Brown: Reviewer, MTENG-1232, "Experimental Study of Low Strength Concrete Confined by FRP," for the Journal of Materials in Civil Engineering
 - Brown: Guest Editor, Journal of ASTM International, seven papers for Special Publication
 - Brown: TCA Technical Committee Member
 - Green: Tennessee Association of Colleges & Employers (TACE) Treasurer
 - Fulks: CBAS AWARDS Committee
 - Fulks: Certified ACI Examiner for Flatwork
 - Knight: Faculty Senate Representative
 - Knight: Attended NRMCA 2012 Annual Convention, Mar. 19-21, 2011, Savannah, Ga.
 - Knight: Attended NRMCA's Concrete Works and Board of Directors Meeting, Sept. 24-27, 2011, San Diego, Calif.
 - Knight: Tennessee Concrete Association (TCA), July 23 and 30, Sept. 24, Nov. 5 and 23, 2011; and Jan. 21, March 31 and May 12, 2012, Murfreesboro, Tenn., Examiner – ACI Concrete Field Testing Technician – Grade I
 - Knight: Tennessee Concrete Association (TCA), Jul. 23 and 30, Sept. 24, Nov. 5 and 23, 2011; and Jan. 21, Mar. 31 and May 12, 2012, Murfreesboro, Tenn., Examiner – ACI Aggregate Testing Technician – Level 1
 - Knight: Tennessee Concrete Association (TCA), Jul. 23 and 30, Sept. 24, Nov. 5 and 23, 2011; and Jan. 21, Mar. 31 and May 12, 2012, Murfreesboro, Tenn., Examiner – ACI Concrete Strength Testing Technician
 - Knight: Tennessee Concrete Association (TCA), Sept. 24 and Nov. 12, 2011; and Jan. 2, Mar. 31 and May 12, 2012, Murfreesboro, Tenn., Examiner – ACI Concrete Construction Special Inspector
 - Knight: American Society of Civil Engineers (ASCE), Mar. 12, 2012, Nashville, Tenn., Invited Instructor - Professional Engineer Exam Review Course
 - Knight: Tennessee Society of Professional Engineers (TSPE), Sept. 12, 2011, Nashville, Tenn., Invited Instructor - Professional Engineer Exam Review Course
 - Morton: Chair ASTM Subcommittee D01.36
 - Morton: Voting Member of ACI Technical Committee 544
 - Morton: University Curriculum Committee
 - Yang: Scholars Week Committee
 - Yang: Academic Appeals Committee
 - Yang: ACI Structural Journal, "Crack Model for SFRC Members Containing Conventional Reinforcement," Mar. 26-Apr. 26,

2012, Reviewer

- Yang: Materials and Structure Journal, “Durability Performance of Portland Cement Blended with RFCC Spent Catalyst Exposed to Sea Water Attack,” Nov. 30-Dec. 28, 2011, Reviewer
- Yang: ACI Structural Journal, “Cracking Behavior of SFRC Members Containing Conventional Reinforcement,” Jul. 25-Aug. 25, 2011, Reviewer

FINANCIAL INFORMATION

Income

	Middle Tennessee
Patrons	\$64,478.20
Patron Scholarships	\$75,626.21
National Steering Committee	\$100,000
University	\$558,094.25
Total Income	\$798,198.66

Expenses

	Middle Tennessee
Salaries	\$524,187.25
Operating	\$100,885.78
Travel	\$77,650.48
Scholarships	\$75,626.21
Total Expenses	\$778,349.72





Department of Engineering Technology
University Heights • Newark, New Jersey 07102-1982 • (973) 596-8193

Program Enrollment by Year

	Fresh.	Soph.	Junior	Senior	Total
2010-11	9	5	15	11	40
2011-12	14	7	14	15	50
Net Change	+5	+2	-1	+4	+10



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



ENROLLMENT DATA

Number of Graduates

- Spring 2012 - 4 graduates
- Summer 2012 - 1 graduate

NJIT CIM Patrons Board

- Mrs. Jamie Gentoso, Sika
- Mr. Larry Silvi, Silvi Group
- Mr. Bill Layton, NJCAA

Scholarships

The CIM patrons awarded \$20,000 in scholarships during the 2011-2012 school year.

Job Placement

100% of spring and summer 2012 graduates looking for industry jobs have been placed.

Internships

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

- Jersey Precast (3)
- Eastern Concrete (3)
- Hycrete (2)
- Sika (1)
- Beyond Concrete (1)
- AWZ Engineering (1)
- Schiaveone Construction (1)
- Fort Miller Precast (1)

Student Projects/Certifications

- ACI Field Testing Technician Grade I
- ACI Concrete Competitions
- ASCE Concrete Canoe Competition

Awards

- American Concrete Institute Excellent University of the Year 2011-2012.
- Concrete Canoe Competition First Place (regional) American Society of Civil Engineering (jointly with ASCE Student Chapter) - 3 undergraduates.

Industry Sponsored Socials

- Tilcon
- Eastern Concrete
- Hycrete
- LaFarge
- BASF
- Silvi

Marketing Activities

- Anlee Orama, CIM Specialist, is spearheading the marketing segment of the CIM program focusing on increasing enrollment, patron involvement, student participation, and more.
- There were 29 high school recruitment events, 5 community college visits, and 10 internal recruitment activities. Presentations

to encourage students to join the CIM program were performed and brochures were distributed. CIM student participation in all events has been an influential factor in our success.

- Student enrollment has increased from 40 students to 50 students. This number excludes four students who graduated in spring 2012.
- For the first time, seven incoming freshmen students for the fall 2012 semester are coming directly from high schools. This is a significant increase from our previous record of one student in fall 2011 and a measure of success from high school visits.
- Numerous contacts have been made with counselors, teachers, and coordinators in the high school setting, community college, and internal setting which will enable the current momentum to continue with more energy throughout the next year.
- Four newsletters have been electronically mailed to all northeast industry contacts and patrons. Hard copies 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.
- CIM has been successfully marketed outside New Jersey in Pennsylvania and New York. Contacts have been made in Delaware and we will be en route very soon.
- NJIT offers in-state tuition rates to all students in the CIM program no matter what their state or country of residence.

PROFESSIONAL ACTIVITIES

- Job and internship placements were maintained at a 100% rate which is incredible in this economy.
- Approximately \$20,000 in scholarship funds were distributed thanks to the local patrons.
- To date, 23 CIM students have earned their ACI Level I Concrete Field Testing technician certification thanks to the NJ ACI Chapter.
- The ACI student chapter participated in two ACI international competitions and was named Excellent ACI University for 2011.
- CIM students attended eight conferences including ACI, NRMCA, World of Concrete, NPCA, ICRI, and IEEE.
- NJIT CIM administration visited NSC meetings in Chico State

University and Arizona State University CIM programs.

- CIM students had more than 100 different activities such as field visits, seminars, socials, guest speakers, conferences and on-campus workshops and gatherings.

PROGRAM SUPPORT

- The annual fund from the national patrons.
- The annual Northeast Patron's Wine Tasting Event 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 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 the program.
- Provide support to undergraduate concrete research through supplies, donations and guidance.
- Allow plant tours, hold socials and offer guest lecturers and field visits.
- Host the biannual Northeast CIM Patrons meeting.

RESEARCH

- Undergraduate: The use of interlocking soil/cement blocks in modern urban construction
- Undergraduate: Calculated the percentage of fines in fine aggregate (sand)
- Undergraduate: The performance of new composite concrete flooring in residential buildings
- Masters: Autoclave aerated concrete performance with and without reinforcement

COMMITTEES

Dr. Mahgoub has been selected to be a panelist at National Science Foundation, NSF, for the following panel:

- Structures Network for Earthquake Engineering Simulation (NEES) Research Panel, Jan. 18-19, 2012
- Structures and Materials Hazard Mitigation and Structural Engineering (HMSE) Research Panel, Apr. 16, 2012

Dr. Mahgoub has also been appointed as chair of ACI Committee 555 (Concrete with Recycled Materials).

Dr. Mahgoub is a member of the following American Concrete Institute (ACI) committees:

- 130 - Sustainability of Concrete
- 342 - Evaluation of Concrete Bridges and Bridge Elements
- 343 - Concrete Bridge Design. This is a joint committee between ACI-ASCE (American Society of Civil Engineers).
- 440 - Fiber Reinforced Polymer Reinforcement
- 555 - Concrete with Recycled Materials

Dr. Mahgoub is also a member of ASCE, PCI and ICRI.

Dr. Mahgoub has also been selected to be a judge on the following committees:

- Annual New Jersey Concrete Awards, New Jersey American Concrete Institute, NJACI, Chapter
- Concrete Essay Contest for high school students, National Ready Mix Concrete Association, NRMCA

Dr. Mahgoub is the advisor of the ACI student Chapter at NJIT.

PUBLICATIONS

Published Book Chapters

- 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, submitted on Mar. 21, 2011, 5 pages

- Mahgoub, M. (in-review): “Structure in Service,” Chapter of ACI special publication, Concrete Sustainability, American Concrete Institute, ACI, Committee 130C: Structures in Service, Concrete, submitted on Aug. 4, 2010, 35 pages

Published Refereed Journal Papers

- Jamali, A., and Mahgoub, M. (in-review): “Behavioral Model for Recycled Aggregate Concrete under Axial Compression,” Journal of Construction and Building materials. Elsevier, submitted on Dec. 9, 2011
- Jamali, A., and Mahgoub, M. (in-review): “A Behavioral Model for Confined Recycled Aggregate Concrete under Axial Compression,” Journal of Construction and Building materials. Elsevier, submitted on Dec. 25, 2011
- Bayoumi, A., and Mahgoub, M. (in-review): “The Mold Test: A Proposed Test Method for Rapid Measurement of Approximate Fines Content in Non-Organic Soils,” American Society For Testing and Materials, ASTM, Geotechnical Testing Journal, submitted on Feb. 1, 2012

Professional Presentations

- Mahgoub, M.: “Strategies for Sustainable Buildings: Design and Construction,” International Concrete Sustainability Conference, May 7-10, 2012. National Ready Mix Concrete Association (NRMCA), Seattle, Wash.
- Mahgoub, M.: “Seismic Properties of Recycled Aggregate Concrete,” ACI Committee 555 Technical Session, Concrete with Recycled Materials, American Concrete Institute, ACI Conference, Oct. 17, 2011, Cincinnati, Ohio (invited)

PROPOSALS

- National Science Foundation, NSF, (TUES) “STEM Games for Industry/Academic Partnerships,” Jointly with another CIM school, Jan. 2012.

Authors: Dr. Mohamed Mahgoub and Dr. Ahmed Bayoumi

Title: The Mold Test: A Proposed Test Method for Rapid Measurement of Approximate Fines Content in Non-Organic Soils

Patent Number: Disclosure ID: 12-011

Date: Submitted: Sept. 16, 2011

FINANCIAL INFORMATION

Income

	NJIT
Industry/Patrons	\$100,000
National Steering Committee	\$100,000
University (in-kind, not included in total)	\$100,000
Scholarships	\$20,000
Total Income	\$220,000

Expenses

	NJIT
Salaries	\$13,250
Operating	\$153,750
Travel	\$35,500
Scholarships	\$20,000
Total Expenses	\$222,500



TEXAS STATE UNIVERSITY SAN MARCOS

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**DR. VEDARAMAN
SRIRAMAN**
TSU CIM
Program Director

ENROLLMENT DATA

Semester	Fall 2009	Spring 2010	Spring 2011	Spring 2012
Texas State University	30,805	29,275	31,015	32,001
Department of Engineering Technology	436	425	444	493
CIM Program	13	21	41	56

The first group of students graduated in December 2011.



PROGRAM ADMINISTRATION UPDATE

A national search process has been initiated for the purpose of recruiting a permanent Program Director for the CIM program. The successful candidate is expected to join Texas State in fall 2013.

PROFESSIONAL ACTIVITIES

Ongoing Research

- J. Hu, Y. Kim and S. Lee, "Synthesis on Cost Effectiveness of Extradosed Bridges," Project Sponsor(s): TxDOT (RTI 0-6729), Amount: \$49,984, Sept. 2011 - Aug. 2012
- M. C. Won, S. Senadheera S., D. Fowler, and J. Hu, "Optimizing Concrete Pavement Type Selection Based on Aggregate Availability," Project Sponsor(s): TxDOT (RTI 0-6681), Amount: \$170,000, Sept. 2011 - Aug. 2012
- S. Lee, J. Hu, Y. Kim, and G. Winek, "Costs Associated with Conversion of Surfaced Roads to Un-surfaced Roads," Project

- Sponsor(s): TxDOT (RTI 0-6677), Amount: \$118,112, Sept. 2011 - Aug. 2012
- B. You, Y. Kim, and I. Song, "Investigation of Acoustic Characteristics of Car Cabin for the Development of Non Woven Fabrics as a Car Interior Material," Project Sponsor: KOTMI (Korea Textile Machinery Research Institute), Amount: \$30,000, Aug.- Dec. 2011
 - Y. Kim, J. Hu, and S. Lee, "Review of Quality System Manual (QSM) for Precast/Prestressed Concrete: PCI Level II," Project Sponsor(s): Pittsburgh Flexicore, Amount: \$6,000, Sept. 2011 - Mar. 2012
 - C. Gaedicke, "A Method to Predict the Properties of Pervious Concrete Slabs in the Field," Project Sponsor: Office of Sponsored Programs (OSP), Texas State University-San Marcos, Amount: \$8,000, Jan. - Dec. 2012
 - B. You, Y. Kim, and I. Song, "Investigation of Acoustic Characteristics of a Car Cabin for the Development of Non Woven Fabrics as a Car Interior Material (Phase II)," Project Sponsor: KOTMI (Korea Textile Machinery Research Institute), Amount: \$30,000, Jun. - Dec. 2012
 - of Existing Smartphone Applications and Data Needs for Travel Surveys," proposal submitted to TxDOT (RTI 0-6767), Mar. 2012, Amount: \$83,941
 - Z. Ge and J. Hu, "Rheology, Hydration and Formwork Pressure of Self-Compacting Concrete with Recycled Clay Brick," proposal submitted to National Science Foundation of China, Mar. 2012, Amount: \$126,159
 - B. You, Y. Kim, and I. Song, "Assembly Tolerance Analysis for the Development of a Gas Turbine Rotor Stacking Software," KEPCO-Plant Service and Engineering (KEPCO-KPS), proposal submitted to KEPCO, Feb. 2012, Amount: \$70,000
 - I. Castro-Arellano, C. Gaedicke, D. Hahn, M. Forsetner, and C. Green, "Contribution of Bridge Dwelling Birds to Bacterial Water Quality Impairments," proposal submitted to TxDOT (RTI 0-6764), Mar. 2012, Amount: \$374,284
 - J. Tate, D. Fazarro, C. Gaedicke, and W. Trybula, "Addressing Societal, Ethical, Health, and Environmental Aspects of Nanotechnology in an Undergraduate Curriculum," proposal submitted to the National Science Foundation, Apr. 2012

Pending Proposals:

- J. Hu, D. Fowler, S. Lee, Y. Kim, and D. Whitney, "Feasibility Study of Two-Lift Concrete Paving," proposal submitted to TxDOT (RTI 0-6749), Mar. 2012, Amount: \$136,947
- S. Lee, J. Hu, Y. Kim and G. Winek, "Study of Short Term Skid Improvements by Light Texturing with a Milling Machine," proposal submitted to TxDOT (RTI 0-6752), Mar. 2012, Amount: \$324,362
- S. Lee, J. Hu, and Y. Kim, "Seal Coat Quality: Does Low Cost Mean Low Quality?" proposal submitted to TxDOT (RTI 0-6747), Mar. 2012, Amount: \$294,230
- Y. Kim, J. Hu, S. Lee, C. Gaedicke, "Synthesis on Geosynthetic-Reinforced Steep Slopes," proposal submitted to TxDOT (RTI 0-6792), Mar. 2012, Amount: \$49,984
- Y. Lu, D. Tamir, J. Hu, and H. Shi, "Automated Crack Documentation Using Digital Images-Scoping Study," proposal submitted to TxDOT (RTI 0-6789), Mar. 2012, Amount: \$94,376
- X. Chen, J. Hu, H. Shi, D. Tamir, and G. Lawrence, "Evaluation of Existing Smartphone Applications and Data Needs for Travel Surveys," proposal submitted to TxDOT (RTI 0-6767), Mar. 2012, Amount: \$83,941
- Z. Ge and J. Hu, "Rheology, Hydration and Formwork Pressure of Self-Compacting Concrete with Recycled Clay Brick," proposal submitted to National Science Foundation of China, Mar. 2012, Amount: \$126,159
- B. You, Y. Kim, and I. Song, "Assembly Tolerance Analysis for the Development of a Gas Turbine Rotor Stacking Software," KEPCO-Plant Service and Engineering (KEPCO-KPS), proposal submitted to KEPCO, Feb. 2012, Amount: \$70,000
- I. Castro-Arellano, C. Gaedicke, D. Hahn, M. Forsetner, and C. Green, "Contribution of Bridge Dwelling Birds to Bacterial Water Quality Impairments," proposal submitted to TxDOT (RTI 0-6764), Mar. 2012, Amount: \$374,284
- J. Tate, D. Fazarro, C. Gaedicke, and W. Trybula, "Addressing Societal, Ethical, Health, and Environmental Aspects of Nanotechnology in an Undergraduate Curriculum," proposal submitted to the National Science Foundation, Apr. 2012

PUBLICATIONS AND PRESENTATIONS

Publications

- V. Sriraman, and J. Hu, "Preparing the Next Generation Concrete Construction Professionals – The Concrete Industry Management Degree," World Transactions on Engineering and Technology Education, Vol. 10, No. 1, 2012
- J. Hu, K. Wang, J. A. Gaunt, "Behavior and Mix Design Development of Concrete Made with Recycled Aggregate from Deconstructed Lead-Contaminated Masonry Materials," Construction and Building Materials, doi:10.1016/j.conbuildmat.2011.07.067.
- Y. Kim, J. Hu, S. Lee, B. J. Broughton, "Prediction of Compressive Strength of Aerated Lightweight Aggregate Concrete by Artificial Neural Network," Applied Mechanics and Materials, Vol. 84-85, pp. 177-182, 2011, Green Power, Materials and Manufacturing Technology and Applications, GPMMTA2011
- J. Hu, K. Wang, J. A. Gaunt, "Sequestering Lead by Utilizing Lead-Based Paint (LBP) – Contaminated Masonry Materials as Recycled Aggregate in Portland Cement Concrete," Journal of

Solid Waste Technology and Management, Vol. 37, No. 4, Nov. 2011

- J. Hu, V. Sriraman and Y. Wang, "Challenges and Experiences in Teaching a Concrete Problems Diagnosis and Repair Course," Proceedings of the ASEE Annual Convention, June 2012, San Antonio, Texas
- V. Sharma and V. Sriraman, "Development and Implementation of an Industry Sponsored Construction Management Capstone Course," Proceedings of the ASEE Annual Convention, June 2012, San Antonio, Texas
- J. Hu, D. Hahn, W. Rudzinski, Z. Wang and E. Luzelva, "Inspection of Texas Concrete Bridge Pillars with Suspected Microbial-Induced Deterioration," TRB 91st Annual Meeting, Jan. 2011, Washington, D.C.
- J. Hu, Z. Wang, and Y. Kim, "Feasibility Study of Using Recycled-Concrete Fine Aggregate in Self-Consolidation Concrete," 2011 Concrete Sustainability Conference, Aug., 2011, Boston, Mass.
- B. Broughton, S. Lee, Y. Kim, "30 Years of Microsurfacing: A Review," ISRN Civil Engineering, Vol. 2012, Article ID 279643, 7 pages, 2012, doi:10.5402/2012/279643
- Y. Kim, J. Hu, S.-J. Lee, and B. You, "Mechanical Properties of Aerated Lightweight Aggregate Concrete," Magazine of Concrete Research, Vol. 64, No. 3, 2012, pages 189-199, doi:10.1680/macr.10.00127
- B. You, Y. Kim, and I. Song, "Investigation of Acoustic Characteristics of a Car Cabin for the Development of Non Woven Fabrics as a Car Interior Material (Phase I)," KOTMI (Korea Textile Machinery Research Institute), Feb. 2012
- A. Kotwal, Y. Kim, and J. Hu "Recycled Carpet Fiber Reinforced Concrete with Recycled Concrete Aggregate," 2012 Concrete Sustainability Conference, Seattle, Wash., May 7-10, 2012
- Y. Kim, T. Harmon, B. You, "High Performance Precast Wall Panels with Shear Transfer Provided by Carbon Fiber Grid," Applied Mechanics and Materials Journal, Vol. 84-85, 2011, pages 613-617, doi:10.4028/www.scientific.net/AMM.84-85.613
- J. Gomez, T. G. Conner, I.-H Song, Y. Kim, and Byoung Hee You, "Cavity Filling Analysis For Micro Hot Embossing," 2012 ASME International Mechanical Engineering Congress and Exposition (IMECE), Houston, Texas, Nov. 9-15, 2012
- A. Kotwal and Y. Kim, "Partially Confined Concrete: Value En-

gineering and Performance Analysis," 2012 PCI National Bridge Conference, Nashville, Tenn., Sept. 29-Oct. 3, 2012

Presentations:

- J. Hu, V. Sriraman and Y. Wang, "Challenges and Experiences in Teaching a Concrete Problems Diagnosis and Repair Course," ASEE Annual Convention, Jun. 2012, San Antonio, Texas
- V. Sharma and V. Sriraman, "Development and Implementation of an Industry Sponsored Construction Management Capstone Course," ASEE Annual Convention, Jun. 2012, San Antonio, Texas
- J. Hu, D. Hahn, W. Rudzinski, Z. Wang and E. Luzelva, "Inspection of Texas Concrete Bridge Pillars with Suspected Microbial-Induced Deterioration," TRB 91st Annual Meeting, Jan. 2011, Washington, D.C.
- J. Hu, Z. Wang, and Y. Kim, "Feasibility Study of Using Recycled-Concrete Fine Aggregate in Self-Consolidation Concrete," International Concrete Sustainability Conference, Aug. 2011, Boston, Mass.
- A. Kotwal, Y.-J. Kim and J. Hu, "Recycled Carpet Fiber Reinforced Concrete with Recycled Concrete Aggregate," 2012 Concrete Sustainability Conference, May 7-10, 2012, Seattle, Wash.
- A. Kotwal and Y.-J. Kim, "Partially Confined Concrete: Value Engineering and Performance Analysis," 2012 PCI National Bridge Conference, Sept. 29-Oct. 3, 2012, Nashville, Tenn.
- J. Gomez, T. G. Conner, I.-H Song, Y.-J. Kim, and Byoung Hee You, "Cavity Filling Analysis for Micro Hot Embossing," 2012 ASME International Mechanical Engineering Congress and Exposition (IMECE), Nov. 9-15, 2012 Houston, Texas

COMMITTEES

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

- ACI Committee: 130 Sustainability of Concrete; 237 Self-Consolidating Concrete; 238 Workability of Fresh Concrete; 555 Concrete with Recycled Materials (Secretary).
- Texas Department of Transportation (TxDOT) Research Management Committee (RMC), Technical Advisory Panel (TAP) Member (RMC 1 - Construction and Maintenance, RMC 5 - Structures and Hydraulics).

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

- ACI Faculty Network
- ACI Committee 446 – Fracture Mechanics of Concrete
- ACI Committee 215 – Fatigue of Concrete

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

- PCI Seismic Committee
- PCI Design Handbook Committee

PROGRAM SUPPORT

Scholarships

- Thirteen CIM majors received CIM scholarships ranging from \$3,000 to \$500 (with a total of \$18,000) for spring 2012. The scholarships were presented to the recipients during the Department Awards Day in April 2012.
- The ACI Central Texas Chapter awarded the Rodney Davies Memorial scholarship to Texas State CIM major Mr. Isaac Cedillo for an amount of \$2,000 in December 2011.
- The ACI San Antonio Chapter awarded three scholarships to Texas State CIM majors, Mr. Dirk Franz, Mr. Garrett McSpadden and Mr. Isaac Cedillo, for an amount of \$1,500 each in December 2011.

MARKETING ACTIVITIES

- Texas State Patrons hosted a Concrete Lab Open House on February 28, 2012. Approximately 20 industry guests and 30 CIM majors attended the event. Dr. Gene Bourgeois, Provost & VPAA of Texas State and Dr. Robert Habingreither, Associate Dean of College of Science and Engineering made presentations.
- As one of the recipients of the ACI Central Texas Chapter Scholarship for 2011, CIM major Isaac Cedillo presented his research and study at Texas State on May 10, 2012. The two other recipients were graduate students from the University of Texas at Austin.
- Texas State Construction & Concrete Industries Job Fair was held on Thursday, October 27, 2011 in the Texas State University LBJSC Ballroom.
- Texas State Construction & Concrete Industries Job Fair was

held on Thursday, February 23th, 2012 in the Texas State University LBJSC Ballroom.

- Texas Aggregates and Concrete Association (TACA) hosted a one-and-a-half-day training program (TACAMP) on Texas State campus July 2nd and 3rd. Close to 40 industrial professionals attended the event. Appropriately 10 CIM majors attended the program free of charge.
- Two CIM social and recruiting events were organized by TACA and the ACI Texas State Student Chapter at Pluckers, San Marcos on December 5, 2011 and July 2, 2012. More than 30 industrial representatives, CIM faculty members, CIM students and prospective students attended each of the events.
- On May 8, 2012, 18 students (aged from 5 to 7) from San Marcos Montessori School visited Texas State Concrete Lab. Dr. Jiong Hu and CIM students Sawyer Flache, Breena Madrid and Kevin Clare hosted the event.

STUDENT PROJECTS

- Texas State CIM team won the 2nd Place in the Load-to-Cost Category of ACI Pervious Concrete Competition in the ACI Fall 2011 Convention. CIM majors Chase David, Daniel Calhoun and Seth Eggert participated in the event and were advised by Dr. Gaedicke.
- Texas State CIM team participated in the Bowling Ball Competition at the ACI Spring 2012 Convention in Dallas, Tex.
- The ACI student chapter teamed up with the Construction Student Association (CSA) in a community service activity in San Marcos on December 6, 2011. The activity involved excavating and pouring an 11x11-foot concrete slab for a bus stop for the Allan Woods Community. The Allan Woods Community is a subsidized housing project for low-income families in San Marcos.
- The second annual “Concrete Problem and Repair” case study was hosted at Texas State on July 2, 2012. More than 20 guests from TACAMP attended and served as judges for the event.
- A team from Texas State CIM program attended the annual TACA HSC competition. The team received honorable mention in the competition in June 2012.

STUDENT EDUCATIONAL ACTIVITIES

- Six CIM majors attended WOC 2012, in Las Vegas, Nev. Jan.

23-27. Each student delegate attended educational seminars and pitched in with the CIM booth and the auction.

- Three CIM majors attended the ACI Fall Convention in Cincinnati in Oct. 2011.
- Three CIM majors attended the ACI Spring Convention in Dallas Mar. 2011.
- CIM major Dirk Franz and faculty member Dr. You Jae Kim attended the 2011 PCI Committee meeting and Annual Convention at Salt Lake City, UT, Oct. 19-24, 2011.
- Eight CIM majors attended a presentation entitled "Handling Concrete Specifications" hosted by TACA in Austin in Oct. 2011.
- Nineteen CIM majors attended the 2012 Concrete Décor Show in San Antonio Feb. 20-24. They pitched in with the registration, workshops and show setup.
- Eight CIM majors took the ACI Field I Certification exam in Texas State's Concrete Lab on Oct. 29, 2011 with the assistance of the ACI Central Texas Chapter.
- Eleven CIM majors took and passed the ACI Field I Certification exam in Texas State's Concrete Lab on Apr. 28, 2012 with the assistance of the ACI Central Texas Chapter.
- Approximately 20 CIM majors were placed into internships in summer 2012.
- Approximately 10 CIM students visited the Lehigh Cement Plant in Buda, Tex. on Feb. 29, 2012.
- Twelve CIM and CM majors attend a plant tour at Heldenfels Enterprises, Inc. on Precast/Prestressed Concrete Structures located in San Marcos on Apr. 18, 2012.
- Twelve CIM majors visited the Ingram Readymix Plant in San Marcos, Tex. on April 16, 2012.
- Approximately 30 CIM and CM majors participated in a jobsite visit of the University Academic Center Project located on campus on Nov. 1, 2011.
- Approximately 23 CIM and CM majors participated in a jobsite visit of the Department of Housing and Residential Life (DHRL) Administration Building located on campus on Apr. 13, 2012.
- A total of 37 CIM and CM majors took a field trip of the Bobcat Stadium North Side Complex Project which is located on campus on Sept. 15, 2011.
- A total of 11 CIM and CM majors took a field trip of the Performing Art Center – Parking Garage Project which is located

on campus on Jun. 15, 2012.

- A total of 11 CIM and CM majors took a field trip of the Performing Art Center – Main Building Project which is located on campus on Jun. 29, 2012.
- CIM major Chase David presented a poster entitled "Feasibility of Natural Nano-Scale Minerals Used in Concrete" at the Texas State Undergraduate Research Conference. Chase's work was one of the 15 posters that were selected.
- CIM major Marcus Flores attended IEEE/IAS-PCA Cement Conference held in San Antonio May 13-15, 2012.
- CIM major Isaac Cedillo presented a poster entitled "Enhanced Sustainability of Pervious Concrete Using Recycled Concrete Aggregate and Slag" at the Society of Professional Hispanic Engineers Conference, in Anaheim, Calif.

PATRON/INDUSTRY INVOLVEMENT

- Texas State patrons met on Mar. 30, Sept. 14 and Dec. 15, 2011 in San Marcos, Texas
- Both ACI San Antonio and Central Texas Chapter provided support for scholarships.
- Provided speakers for the ACI student chapter.
- Provided CIM students the opportunity to participate in industrial plant visits.
- Ten industrial guest speakers made presentations in CIM courses.
- Provided internship opportunities.
- Provided supplies for our concrete testing lab.
- Assisted with fund generation and recruitment.

OTHER NEWS

- Texas State University was recognized as an ACI Excellent University during the opening session at ACI Spring 2012 convention at Dallas, Texas
- Dr. Kimberly Talley joined Texas State in January 2012. She will be the third tenure track faculty member in Construction Science and Management program. Dr. Talley received her Ph.D. in Civil Engineering from University of Texas at Austin. Her research topic was "Assessment and Repair of Concrete Bridge Columns Affected by Alkali Silica Reaction and Delayed Ettringite Formation."
- Mr. Ted Cera was hired as the new Lab Services Technician. Mr. Cera holds ACI Field I certification and he will assist CIM

faculty and students with their lab needs.

- Faculty members from Universidad Autonoma de Nueva Leon Faculty visited with the CIM program and Department of Engineering Technology in fall 2011.

FINANCIAL INFORMATION

Income

	TSU
TSU Patrons	\$30,000
National Steering Committee	\$60,000
TSU Operating Budget	\$288,608
Total Income	\$378,608

Expenses

	TSU
Operations (travel, materials, equipment, etc.)	\$86,400
TSU Faculty Salaries	\$203,608
Scholarships	\$18,000
Total Expenses	\$308,008



KIMBERLY A. RAHBERGER, ARIZONA STATE UNIVERSITY

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

I currently attend the Del E. Webb School of Construction at Arizona State University and will graduate in December 2012.

Where are you from originally?

I grew up in Oshkosh and La Crosse, Wis., but have lived in Fountain Hills, Ariz. for the past 22 years.

Why did you choose this university and the CIM program?

My older brother graduated from the construction program at ASU in 2009 and encouraged me to look into the program because there are excellent opportunities for women in the construction field. I met with an advisor at ASU in 2008 and was convinced this was a great construction program and a good career field for me to pursue. Before I arrived at ASU, Dr. James Ernzen, head of the CIM program at ASU, called me and invited me to explore the possibilities of a career in the concrete industry. What I found particularly enticing was the fact that the concrete industry is less likely to require me to travel and move from project to project. As a wife and mother of three children, this was important to me. Once I started taking CIM classes and started to visit jobsites and companies in the industry, I knew I had made the right choice. The culture, the people and the industry itself were a good fit for me.

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

The CIM program has given me a good deal of exposure to the concrete industry itself that many students in other majors don't get to experience. The program provided me with numerous opportunities to network with industry leaders through social engagements, involvement in professional organizations like ACI, and jobsite visits. Many of our local CIM Patrons and industry leaders visit our classrooms to make presentations or teach classes. The networking opportunities have given me the opportunity to get to know the men and women who may become future employers or co-workers. The classes themselves have provided me with practical technical and business knowledge that I have been able to take directly to the workplace and apply to the projects I am working on.

What advice would you give to other current CIM students?

I would encourage all current CIM students to take advantage of every networking opportunity, industry event, and professional organization and competition that they can. These events help students to create lasting relationships with industry members and present opportunities to gain valuable knowledge and hands on experience. The competitions help students learn teamwork, problem-solving strategies, and time-management skills while allowing them to apply their learning to practical and challenging projects.





COLBY MACDONALD, Middle Tennessee State University

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

I am attending Middle Tennessee State University and intend to graduate in May 2013.

Where are you from originally?

I am from, and still live in Mount Juliet, Tenn.

Why did you choose this university and the CIM program?

From early high school I have known that I want a career that provides me the opportunity to be outside and see different areas. So I began searching for a degree that would allow me to see a project through from start to finish, be outside on the job, and allow me to use my natural abilities when it comes to building and constructing.

I looked into the CIM program based on the recommendation of an architect and a civil engineer who know me. They said that the program is very unique in the nation and that the students coming out of the program were in demand.

One of my goals for attending college was to stay in middle Tennessee and, since MTSU also had the CIM program, it was an easy decision to choose MTSU and the CIM program.

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

The CIM program had given me the technical education to be able to immediately begin being productive in the concrete industry. The business and liberal arts classes have prepared me to be able to effectively communicate with my management and clients, and to manage all aspects of the business.

What advice would you give to other current CIM students?

The CIM program is a practical curriculum that demands staying on top of your studies. Have fun in school, but devote the time demanded to each and every class.

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?

Yes. I just completed my internship with IMI. It certainly opened my eyes to various aspects of the 'pour.' The greatest personal challenge was receiving pages around 10 p.m., to be on the site at 2 a.m. Even though I understand the complexities of schedules and weather, I believe that there must be a better way to schedule and notify resources. I am looking forward to tackling this problem when I graduate.

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

I have been able to attend most of the 'mixers' and evening lectures, presented by the CIM program. These have been informative, and they have shown me things from custom countertops to new strengthening materials.

TRIVON MCDADE, California State University - Chico

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

I am currently attending CSU - Chico with an intended graduation date of May, 2014.

Why did you choose this university and the CIM program?

I chose this university because it shares the academic environment that encourages learning, promotes skill acquisition and reconciles education with the practical world. The campus is large and I wanted to be a part of the Chico Community. From my childhood until now, I have been interested in building and construction. I love being hands-on with everything. When I discovered that Chico State had a really strong CIM program, my decision to attend CSU was easier. I wanted to learn and study under the best minds and I am happy that I am able to do so.

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

The program really reconciles the theoretical education with the practical world. They also provide many opportunities to travel to conventions, be a part of projects and also provide a lot of internships. I have gained a lot of skills that cannot be taught. Through interactions with fellow students, professors, internship supervisors, as well as other college staff, I garnered people and social skills that I never thought I would receive. The program reinforced my passion and developed my talent in combination with my confidence which will enable me to be successful in the construction world.

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?

Yes, I am currently interning in San Francisco working at Alcatraz. I learned about this opportunity from talking to other classmates who did this internship in the past summer. They helped me out by telling me who I needed to speak with and what I needed to do to get involved in this program. This internship has opened my eyes to a lot of different things. I feel that I have obtained a significant amount of knowledge regarding the industry and will have an advantage in my upcoming classes because of this experience.

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

I had the opportunity to meet and speak with the patrons at the Patrons' Dinner, conferences, and also when they came out to see the project we are doing at Alcatraz. At the dinner I had the chance to speak with the patrons and was able to interact with them on a more personal level. I thought it was neat when I saw that one of the patrons I had met from a conference recognized me at the dinner. I was really grateful for the recognition; it made me feel important and good to know that I must've left a great impression on him.





JUSTIN EDWARDS, Middle Tennessee State University

What school did you graduate from and in which year?

I graduated from Middle Tennessee State University (MTSU), located in Murfreesboro, Tenn. in May 2011. I am from Chattanooga, Tenn.

What are your current position and responsibilities at the Indiana Ready Mixed Concrete Association (IRMCA)

Currently, I am employed by the Indiana Ready Mixed Concrete Association (IRMCA) in Indianapolis, Indiana, and my title is that of Promotions Manager. Through this state trade organization, I wear many different hats on a day-to-day basis. Serving our members' needs across the state and providing value to them is always a top priority. To elaborate more, I take part in promotional aspects of all the facets of the ready-mix industry, marketing through web design or other electronic media, educating our members in new trends, offering our time as a technical resource, providing an outlet for certifications and safety training, as well as building and maintaining relationships with municipal, county, and state officials. Overall, we are a dynamic resource for the ready-mix industry of Indiana.

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

MTSU CIM has equipped me with all of the tools I need to be able to succeed in my current position. The technical aspects enable me to effectively communicate with architects/engineers, while the business minor I received allows a better understanding of the economics of the ready-mix industry. The internship I completed through the CIM program, at the Tennessee Concrete Association (TCA), laid the foundation for the line of work I am now in full time.

Why did you choose the CIM program?

This program produces graduates who employers want to hire, it's that simple. Upon graduation, CIM graduates have a sound technical education in the world of concrete, have had some practical experience participating in some facet of the concrete industry, and have been exposed to practical business applications. Combining all of this produces a highly specialized individual with a very high ceiling, capable of working anywhere in the world.

What advice would you give to current CIM students?

My advice to current students is to take advantage of the resources provided as a student of a CIM program. Whether it's the valuable knowledge of the instructors, the access to specialized equipment in the lab, or the platform to network with current industry professionals, don't leave any stone unturned. This program is one that can provide value across the board, just go out there and get it.

MICHAEL CIALLELLA, New Jersey Institute of Technology

What school did you graduate from and in which year?

I graduated from NJIT in May of 2011.

What is your current position and responsibilities at BASF?

I work in the construction chemicals division for BASF as an admixture salesman. I work closely with concrete producers in the New York and New Jersey area. Being an admixture salesman, it is my responsibility to be knowledgeable about my product line and be able to offer solutions to my customers for their day-to-day problems.

Why did you choose this position and this company?

Through the CIM program, I was able to meet many people in the concrete industry and establish relationships before I graduated. With the CIM program promoting the industry and its opportunities, I was able to enter the industry doing what I felt I would enjoy - sales and marketing.

Why did you choose the CIM program?

I simply chose the CIM program because I had other friends that had entered the program and understood the opportunities it had to offer.

What classes did you enjoy the most?

I can honestly say that I enjoyed all the classes CIM had to offer. I enjoyed the classes because of the closeness the program offered between the teachers and the students. Having friendships with my professors made the classes fun and never dull. Through these friendships, I developed a great amount of respect for my professors and their knowledge.

What advice would you give to current CIM students?

My advice to the students in the program now is to develop relationships. The program gives a unique opportunity to establish relationships in the industry before you graduate. These relationships are priceless because they are your future. The people that you are sitting with in class and meet every day will be the people that you will work with in the field one day. If you don't take advantage of the opportunities the program has to offer, someone else will.





BRIAN PEART, CALIFORNIA STATE UNIVERSITY - CHICO

What school did you graduate from and in which year?

California State University - Chico in May 2012.

What is your current position and responsibilities at CSU, Chico Research Foundation?

I am the Technology Transfer Manager for the Research Foundation. I am responsible for creating partnerships between industry, government agencies (DOTs), and academia to conduct research on innovative concrete product and process technologies to preserve the roads of today and improve the roads of tomorrow.

Why did you choose this position and this company?

As a student in the CIM program I had the opportunity to work on a pilot research project on Donner Pass in Lake Tahoe which emphasized the need for pavement preservation, and the desire of industry and the DOT to expedite the use of modern technologies to accomplish this. In addition to my discovering an interest in concrete pavement technology, this project revealed the need for someone to facilitate this and other projects and a position was created that allows me to combine my knowledge of the concrete industry and desire to work closely with people who share the passion for encouraging the use of concrete as a long-term pavement solution.

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

The CIM program has given me the knowledge, support and trust to represent and to promote our vast and unique industry. The opportunity to interact with top industry professionals from day one, to learn about concrete technology, construction and management in both the classroom and field settings have given me the ability and confidence to successfully communicate with the professionals in both public and private sectors and, as a result, strive to bridge the gap between technologies used and technologies available.

Why did you choose the CIM Program?

I chose the CIM Program because it is unparalleled to any other that I have ever seen or heard of. Not only has the concrete industry recognized a need for skilled individuals to be future leaders, the industry has supported it both at a national level through the National Steering Committee (NSC) and a regional/local level through Patron groups at each CIM University. This is evident not only through financial support, but also and arguably more critically by the time industry takes to attend NSC, regional board and Patron meetings, give tours of plants and/or job sites, lecture in classrooms and volunteer for community projects. In addition, the passion that the faculty of Chico State's CIM Program has for the concrete industry is simply inspiring.

TIM HOSTETTLER, CALIFORNIA STATE UNIVERSITY - CHICO

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

I am involved with the California State University - Chico program. I serve as an instructor and internship coordinator.

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

Long-time industry friend Doug Guerrero told me about the pending program at a golf outing, and I offered my services as a local industry member. I only intended to act as a facilitator between the program and industry, arranging field trips and introducing faculty to potential guest speakers. The invitation to teach came as a surprise, and I have thoroughly enjoyed the opportunity to work with the students.

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

Our students have travelled to many wonderful industry events including World of Concrete, the CONEXPO-CON/AGG show, Command-Alkon's customer training conference, and many others. Students also participate in many local field trips, like visiting Lehigh Cement's Redding plant. In addition, we have worked on local construction projects like Habitat for Humanity's recent efforts in Chico.

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

Students who graduate from the CIM program have tremendous opportunities to work in a field that will always be relevant. Concrete is the cornerstone of nearly all construction and our students come out of school with a skill set that allows them to become valuable to an employer in a relatively short period of time. In addition, the contacts students make while enrolled in this program facilitate finding a job after graduation.

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

The field is wide open; students can find careers with ready-mix producers in a variety of capacities (sales, operations, quality control, etc.), concrete construction and repair companies, aggregate or cement companies, admixture companies, precast companies, or industry consulting firms, just to name a few.

What is unique about the graduates of the CIM program?

I like to think of our graduates as being uniquely marketable. They will not graduate knowing everything there is to know, but they will have a skill set that will enable them to continue learning and succeed in the industry by quickly becoming valuable employees. As an individual who has grown up in the concrete industry, I can honestly say that our graduates leave school with knowledge that it took me twenty years to obtain; all they need is experience.





SEAN VAN DELIST, TEXAS STATE UNIVERSITY

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

I am a Board Member of the Texas State University Patrons' Foundation. I grew up and have worked most of career in central Texas since graduating from Middle Tennessee's CIM program in 2002. I was an advocate for establishing CIM at Texas State since the very beginning and got involved to help ensure the success of the local program.

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

I have committed to the local CIM Program most of all to carry on the legacy of volunteerism and mentorship offered by the original Patrons at MTSU that contributed to my success as a student and professional.

Involvement in the CIM program has been of benefit to Tex-Mix Concrete directly by providing us with a summer employee. Also, valuable information has been provided by students' research. More indirectly, we look forward to the cadre of young professionals that will be employed by our suppliers, customers and competitors and the improvements to the market that will follow.

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

Industry benefits tremendously by helping shape and influence academic experience to better prepare the students for what they will encounter in employment much more than through classroom instruction alone. By partnering with industry, the universities remain relevant and useful.

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

Involvement in CIM is a great opportunity to market themselves to future potential employees and customers. Also, there is the ability to have an impact on the educational experience. There are so many facets of the industry; the skills and knowledge of each niche need to be shared with the students and faculty.

How can they get involved?

Anyone can get involved with CIM by contacting university faculty or the Patrons' group at their local CIM university. They can give a presentation, host a social, or provide some equipment or materials.

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

CIM has already benefited the industry tremendously by providing a new generation of technologists and managers to carry on the forward-moving momentum of progress and maturation.

LISA STEPHEN, NEW JERSEY INSTITUTE OF TECHNOLOGY

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

I became familiar with the CIM program through my involvement in the PA Aggregate and Concrete Association, New York Construction Materials Association, and the NRMCA. As a patron of CIM for the past three years, we recognized the need of material producers to have a resource for young talent and new technology. Wayne Concrete most recently employed a CIM intern, Beely Boundedara, from the program at MTSU and it has been one of the most positive and refreshing experiences the company has had in some time. Every employee, customer, DOT inspector and vendor that had contact with Beely has had nothing but good things to say. Beely has not only helped us out tremendously during his internship, but he has been an ambassador for the CIM program by visiting other producers in the Western New York area.



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

Wayne Concrete has continued to commit to the CIM program even in the lean times as we understand that this is when support is needed the most. It is important to capitalize on recruiting and retaining the best and brightest students for the industry to position for future growth. Especially, smaller companies like Wayne can hire, mentor, and network through CIM at the same level as larger producers.

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

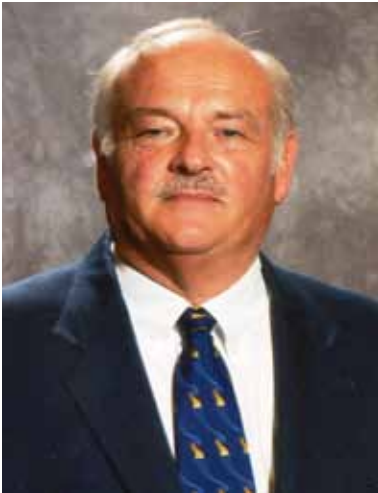
Industry awareness and favorability of CIM continues to grow. This will generate more funding, develop more programs, and thus elevate CIM credentials. It's an opportunity for veterans of the concrete business to give back and enrich the future leaders of the industry both monetarily and intellectually.

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

Because it is a win-win situation. The more producers collectively get involved with education, training, and management, the more efficient, profitable, and professional we all become. Again, with current technology and communication, there is no reason that even the smallest companies can't reach these higher levels of performance with a resource like CIM.

How can they get involved?

Participation is the key. Start with your local patron group and interact with other patrons, the faculty, and the students. Donate time, money, and people. Once you see the benefits first hand, the easy part will be "spreading the word." It's a rejuvenating experience in an industry that hasn't seen a lot of brightness of late.



IN JANUARY, CIM LOST A TRUE CHAMPION OF OUR PROGRAM. The following tribute was provided by friend and colleague Dr. Heather Brown, Department Chair and Professor, Middle Tennessee State University:

“It might be an article about a new product for concrete, a request for proposal for research, a politician that the CIM program needed to know or a job segment that our students could enter, those were the thoughts running through Mr. Jim Speakman each day. His passion for seeing young people succeed resonated through the walls that he helped to build over 15 years ago at Middle Tennessee State University. His leadership began locally with the first words out of his mouth at a sales call “Do you know anything about the CIM program?” He then took that message on the road asking for time, talent and treasure from anyone who would pause and have a glass of tea with him. He inspired people to think outside of themselves and dream big. He was a leader when we needed him to be and yet he knew how to motivate others to step up and become leaders. We are all better people for knowing a person like Jim Speakman who would always ask about your family, remember important days, share a story and above all ask what he could do for you that day.”

Mr. Speakman was profiled in the 2008-2009 CIM annual report. We wanted to share with you his vision for the CIM program.

“The CIM program will set the pace for our industry. The concrete industry is global, and always in need of qualified workers. CIM is the provider of young professionals for every facet of the concrete arena. CIM will continue to be the hub for solidifying all of the concrete-related industries to coordinate the future promotion and use of concrete worldwide. Ultimately, I see MTSU/CIM as a world center for concrete technology and management training. This would include interface with architects, engineers, and concrete-related associations, as well as federal, state and local agencies. Also, applied research will be a mainstay for dealing with real-world situations – applied research is a real strength for CIM. With its huge following and success, I could see the MTSU/CIM Program becoming the International Center of Concrete Management and Technology.”



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.



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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, Arizona State University, California State University, Chico, the New Jersey Institute of Technology, and Texas State University, San Marcos, the program has been successful for both the industry and the graduates.

THE NATIONAL STEERING COMMITTEE

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

The NSC Board of Directors includes the leadership of long-standing CIM financial supporters RMC Research & Education Foundation (RMCREF) and the Portland Cement Association (PCA). It has been joined by the National Ready Mixed Concrete Association (NRMCA), the American Society of Concrete Contractors (ASCC), The American Concrete Pipe Association (ACPA), National Concrete Masonry Association (NCMA), International Concrete Repair Institute (ICRI), the National Precast Concrete Association (NPCA), the Precast/Prestressed Concrete Institute (PCI) and the American Concrete Institute (ACI) Foundation.

For more information, visit www.concretedegree.com.

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