Concrete Industry Management Today...

The Concrete Industry Management Program (CIM) continues to flourish under the direction of the National Steering Committee (NSC). Today fifteen years after the launch of the first CIM program at Middle Tennessee State University (MTSU) there are five distinguished universities with programs that offer degrees in CIM. Joining the flagship CIM Program University, Middle Tennessee State University (MTSU) is Arizona State University (ASU), California State University Chico, New Jersey Institute of Technology (NJIT) and Texas State University (TSU). Enrollment in the program continues to grow and now exceeds 500 students actively pursuing degrees in CIM. Equally impressive is the fact that there are a like number of graduates with an industry retention rate of over 80%. When considering the cost for recruiting, training, and retaining a college graduate for a company CIM is proving to be a great return on investment for the concrete industry.

The success the program enjoys is a testament to the strong support of the concrete industry. This is best demonstrated by the sponsoring organizations of the National Steering Committee (NSC). The National Ready Mixed Concrete Association (NRMCA), From the birth of CIM in 1995 The Portland Cement Association (PCA) and The RMC Research and Education Foundation initially provided a significant amount of financial support to the MTSU the first CIM program established. In 2003 when the decision was made to expand the program to other universities, additional associations and foundations within the concrete industry pledged their support for CIM and formerly joined the NSC. In addition to the three founding organizations over the past eight years the NSC has added The American Concrete Institute Foundation, American Society of Concrete Contractors, The American Concrete Pipe Association, National Concrete Masonry Association, National Precast Association, and The Precast/Prestress Concrete Institute as members of NSC supporting CIM. Today this strong industry coalition continues to grow. This past year The International Concrete Repair Institute became the latest to pledge support for the CIM program and became a member of NSC. (Continued on page 3)
The CIM program continues to develop as we strive for excellence. A recent initiative to help in achieving our goals is the addition of Anlee Orama, the new CIM Specialist, to the CIM program. I believe our joint effort will improve and facilitate many aspects of the program.

Anlee is a recent graduate of the CIM program (May 2009). He was active while at NJIT, and was the Engineering Technology Representative for two years to the Student Senate and captain of the NJIT team for the 2008 ACI National Concrete Cylinder Competition. He is fluent in Spanish, and received several certifications related to this program while at NJIT. Upon graduation he took on several positions all within the concrete industry. His first occupation at Tectonic Engineering dealt with QC performing concrete batch plant inspections assuring concrete production conformed to specified tolerances and codes. He moved on to Sika Corporation as an R&D technician testing chemical admixtures for concrete. Prior to joining NJIT Anlee worked as a QA inspector for concrete construction at Craig Testing. Anlee’s responsibilities as a CIM Specialist will include:

- Recruiting, including arranging for high school and community college visits.
- Arranging for patrons meetings, socials, workshops, field visits and guest speakers.
- Supervising the ACI student chapters and supervising student contests.
- Arranging CIM events on campus such as booths, talking to freshmen, and attending job fairs and HS visits.
- Helping in developing CIM website and blogs.
- Preparing the CIM newsletter.
- Job coordination and co-op placement.
- Development of marketing and promotional materials.
- Student travel coordination for CIM related conferences, workshops and other related meetings.

Northeast Patrons Chairperson, Jamie Gentoso

Back in the Saddle...

The 2011-2012 school year has commenced and the CIM program at NJIT continues its evolution. With a new CIM Specialist, Anlee Orama, and several new students the program continues with great excitement and promise for the future. The success, however, can only continue with the involvement and support of the Patron’s. Now more than ever is the time to get involved. The professors are always seeking speakers, plant, and/or jobsite tours to give the students better insight and knowledge into our industry. In addition, many students are seeking internships or even part-time work to help get them through school. Many are ACI Level I certified and have at the minimum a knowledge of basic mix design and thus can be a great addition/help to your QC or sales staff.

The fall Patron’s Meeting will be held on November 17th on NJIT’s campus. This meeting is your opportunity to give your input on the direction of the CIM program in general as well as to find out how to get involved locally. In addition, you can meet the bright, young minds that make up the program as the students will attend lunch. At one time these meetings filled the entire room with 60 – 70 attendees because there were many that believed in the intent of the program and wanted it to be successful. While I don’t believe this mentality has changed, and there are still many supporters I hope that we can get back to those levels (and even beyond). The program is now thriving and it’s time to get back in the saddle again! We look forward to seeing you in November!

Interested in scheduling a student social or industry tour?

MAHGOU@NJIT.EDU

Interested in setting up your own scholarship fund to support CIM students?

ORAMA@NJIT.EDU
While the financial support of these organizations and the industry segments they represent is important to sustaining the CIM program of equal importance is the exposure students pursuing CIM degrees receive to the multitude of career opportunities within the concrete industry. The initial expansion plan called for a financial commitment of $1 million dollars for each university that was selected. The pledge amount was 50% from the NSC and 50% from local patron groups. This past year marked the completion of the original commitment. During a recent NSC Board of Directors meeting; the board approved funding for all program universities for the academic year 2011/12 at the same $100,000 per school level as during the start up phase. One of the requirements for program universities to qualify for the NSC funds is that there will be a matching amount coming from the local patrons.

While the NSC is proud of its accomplishments in advancing CIM, it recognizes the unique three party partnerships between program universities, NSC and the patron groups, as the foundation for the overall success of CIM. Every program university receives financial support equal to or exceeding the amount from NSC from their local industry patrons. In addition to the financial support the patrons provide real time support in many areas for the individual programs including scholarships, student needs, faculty development, guest lecturing and facilities enhancements. The partnership between the NSC and the patrons is maintained and communication is enhanced through NSC ad hoc board membership for every patron’s chairman. The vision of the partnership is for the NSC to focus on the overall development and advancement of CIM at a national level and the patrons to focus their efforts on the individual programs.

The three party partnerships that I have outlined, has not always worked as smoothly as hoped for. At various points in time during the start up phase certain of the programs have struggled for one reason or another. Generally at the root of the problems that have occurred has been a breakdown of some of the core elements needed for program success. The NSC believes that central to the success of any program is the effectiveness of the program director, the support the director and the program receive from the universities administration and the financial commitment and involvement of the patrons group. In my opinion, NJIT during the start up phase, at times struggled in all of these areas. Today however; I personally, the NSC executive committee and the NSC board are very encouraged by the progress of NJIT CIM. The significant improvement of the NJIT CIM program is in large part due to changes in leadership in all three key areas that I outlined. While as I previously stated, all of the three areas are important to the success of the program, without question the single most important element needed to insure a successful program is having the right program director. Therefore the appointment of Professor Mohamed Mahgoub as the program director has been the greatest stimulus in getting the NJIT CIM program on track and moving in the right direction. The simultaneous realignment of the universities administrative oversight placing the program under department chairman Ron Rockland was also a key change. The director, in order to succeed must have the universities support and the link to the university is through the department chairman. The final element for success is, as was previously mentioned, the financial support and involvement of the local patrons. The selection and timing of Jamie Gentoso of Sika Corporation being named Patrons Chairman was either brilliant planning or divine intervention since it coincided with the other key element changes that I mentioned. She has effectively reenergized the patrons and through her leadership has been a great resource for the program director.

Under this highly energized three person leadership team, the results speak for themselves. The growing awareness on campus of the viability of the CIM program, I was fortunate to witness firsthand during an early spring visit. During my time on campus I had the opportunity to visit with a number of students who were in various stages of pursuing their CIM degrees. They were to a person excited about the many opportunities that have been given to interface with the industry and could not praise Professor Mahgoub enough for the energy and inspiration he has brought to the program. During that same visit I had an opportunity to meet many of the local patrons and they were equally enthusiastic about everything going on with the CIM program and Professor Mahgoub and Mrs. Gentoso’s leadership and were excited to support the program.

Today NJIT’s CIM program is rapidly advancing in so many ways. The number of students enrolled in CIM has begun to grow significantly, the program has strong support of an ever increasing patrons group and the graduates of the program have a growing list of job opportunities in the industry due to the increased exposure between students and patrons. Speaking on behalf of the NSC and all the other program universities we are all excited about the remarkable turnaround. The future indeed looks bright for NJIT CIM, as it assumes its role in advancing the concrete industry by degrees.
April 11, 2011.
Cranford High School, Cranford, NJ, has requested a visit to Newark College of Engineering, NCE at NJIT. Fifteen highly motivated students interested in engineering came to NCE and listened to a presentation about CIM by the program director, Dr. Mohamed Mahgoub. Christopher Worthington, a CIM student, answered all the high school students questions and concerns. CIM brochures and annual reports were also distributed to the students and some of them asked to be informed about the future CIM activities.

April 13, 2011

Three CIM students, Robert Samul, Wilton Arellano, and Christopher Worthington, have participated in Staten Island Susan E. Wagner High School Annual College Fair to promote NJIT and the CIM program. This is part of the “Students Ambassador” plan NJIT-CIM program is adopting lately encouraging CIM students to talk to other students. The students also talked to the high school students (and their parents) about the great future they will have if they join CIM program.

April 29, 2011

On Friday, April 29, two of our CIM senior students, Wilton Arellano and Christopher Worthington, presented the CIM program to a group of approximately thirty visiting high school students from Elizabeth High School, Elizabeth, NJ. The students participated in an activity hosted by the School of Management and the CIM program. Following the CIM “Student Ambassadors” experience, CIM students presented the CIM program to high school students and answered all their questions afterwards. Many pamphlets, reports and curriculums were then handed out to the high school students. There were a lot of positive feedback from the high school students regarding their new insights about concrete and the industry.

May 7, 2011

CIM students are still kicking in spite of having final exams. Their love for the CIM program is the highest priority. On May 7th, three CIM students, Nicholas Thomas, Wilton Arellano, and Christopher Worthington participated in the Brooklyn Technical High School College Fair. To promote NJIT and CIM. Located in Brooklyn, the heart of New York City, NJIT along with seventy five universities such as Harvard, (Continued on page 5)
Yale, and Stanford were represented at the great and famous college fair. CIM was there too with a big flat screen TV displaying all the wonderful activities. Lois Hulin from the NJIT Honors College attended the event. CIM is now always represented wherever NJIT is represented.

May 11, 2011

Three CIM students, Jonnie Williams, Wilton Arellano, and Andrew Canon, and myself participated in a lunch gathering with Harrison High School at NJIT to promote NJIT and the CIM program. The “Students Ambassador” plan, the program CIM is adopting lately, encourages utilizing current CIM students in marketing efforts to high schools, community colleges and internal transfers. The CIM students passed on vital information of what the concrete industry has to offer and distributed the CIM Annual Report, Curriculums, and Brochures.

July 18, 2011

Forty rising seniors from the Newark, Irvington, Orange, East Orange, and Elizabeth area with 5 chaperones visited NJIT. The visit was sponsored by NJIT Educational Opportunity Program (EOP) and CIM Program. The CIM Presentation provided valuable information that exposed the students to the field of the concrete industry bringing together management and technology. The presentation was attended by Jeremy Canniff, the most recent student to join the CIM program.

July 19, 2011

Dr. Mahgoub was granted the opportunity to speak to 170 incoming freshman at NJIT. Many of the students had not heard of this degree program and were very excited to learn that with a degree in CIM one can build a strong foundation in the concrete industry and work with developers, engineers, architects, city planners, departments of transportation and others. We would like to thank Mr. Laurence Howell, Executive Director of EOP and Mr. Carlonmagno Ontaneda, the Assistant Director of EOP for recruitment, for their great help.

September 27, 2011

CIM was promoted at Bayonne High School in Bayonne, NJ. CIM Junior student, John Te, attended the event and talked to the students and distributed CIM brochures and information. Also in attendance was Michael Ciallella, recent CIM graduate (May 2011) and employee of BASF.
Tekla BIM Training

April 20, 2011

CIM, CET (Construction Engineering Technology), and CEE (Civil and Environmental Engineering) students and faculty gathered at the computer lab at NJIT to have the first TEKLA BIM (Building Information Modeling) Training session. Highly detailed as-built building information models enable the highest level of constructability and production control. Centralizing model and non-model based data into the Tekla model allows for more collaborative and integrated project management and delivery from conceptual design to construction.

Tekla Structures BIM software provides an accurate, dynamic, and data-rich 3D environment that can be shared by contractors, structural engineers, steel detailers and fabricators, as well as concrete detailers and manufacturers. Fahim Dangra and Alistair Wells with TEKLA have done a great effort to teach us the basics of using the BIM software.

Concretapalooza

April 25, 2011

NJIT CIM students (members of the ACI student chapter); Engineers Without Boarders (EWB) student club and American Society of Civil Engineers (ASCE) student chapter hosted a joint event where a concrete water filter was constructed for use in Haiti. The diffusion plate of the filter was made of pervious concrete. Club members not only mixed and placed concrete but also provided pizza and information about the purpose of the filter and how does it work.

The ACI student chapter was also able to provide information about CIM through the distribution of brochures and by answering questions. I would like to thank Dr. Namunu Meegoda the EWB student chapter advisor and Allyn Luke who supervised the event. The event was called “Concretapalooza”

CIM Graduation 2011

May 16, 2011

It is a great honor to announce the graduation of six CIM students. By far, this has been the largest number of graduates in NJIT CIM history. Graduation took place at Newark’s Prudential Center. The university conferred more than 2,300 doctoral, master’s, and bachelor’s degrees on members of the Class of 2011. Congratulations to all graduates for advancing the concrete industry by degrees.
Today, two of our CIM students, Nicolas Denicoli and Wilton Arellano, presented their summer Co-Op experiences. All CIM students are required to successfully complete a concrete-industry related Co-Op as part of the CIM curriculum. Nicolas had the opportunity to work as a quality control technician at Jersey Precast Corp. located in Hamilton, New Jersey. In his short time there Nicolas worked on an array of projects for clients such as the Port Authority of NY & NJ and the Massachusetts DOT. Projects included precast bridge deck replacements, bus ramps, parking garages and much more. It is also noteworthy to see that considerable responsibilities were entrusted to Nicolas in the control of quality when preparing, casting, and transporting products for clients.

Wilton also had an amazing experience working with Hycrete Inc. Hycrete specializes in integral waterproofing and corrosion protection contrary to other conventional methods such as external membrane protection. Wilton was in-
Kenneth A. Lewis, Managing Director, Skidmore Owings & Merrill LLP (SOM) discussed the development, design and provided an update on One World Trade Center (The Freedom Tower) construction. He focused on the challenges and aspirations of designing a super-tall building on the World Trade Center site. He also discussed the innovations, sustainability and life safety enhancements of the tower and their impact on the design of tall buildings.

We would like to truly thank Kenneth for the wonderful and insightful presentation. We would like to thank the following companies who sponsored our students dinner: Tanis and sons, Weldon Materials, Hycrete, Lafarge, and L.M. Scofield.

September 14, 2011

NJIT ACI Student Chapter attended the NJIT Club Fair on campus. The chapter president Christopher Worthington along with John Te, CIM junior student, attended a booth among all the clubs and organizations of the university. The ACI Student Chapter was promoted along with CIM program. Many students stopped by to ask about both programs and signed up for more information via email. CIM Specialist Anlee Orama was also present promoting the program to a live crowd of students.

September 19, 2011

CIM students had an amazing opportunity to receive presentations from two industry professionals. First presenter was Douglas Ruhlin, Principal Environmental Consultant, REM, CEA, LEED GA and owner of Resource Management Associates, RMA. Mr. Ruhlin spoke about sustainability and green concepts in the ready mixed concrete industry and abroad. He emphasized on implementing a zero waste approach and how Best Management Practices, BMP, can be applied to concrete businesses to improve quality and reduce harmful impact on the environment and livelihood of society. He could have not capped his presentation more effectively by reminding us, the future leaders of the concrete industry, that we are in a key position to further transform the industry and embrace BMP (Best Management Practices) and apply it as standard issue in the concrete industry.

It was also a pleasure to have Jamie M. Gentoso, P.E and Chairperson of the Northeast Patrons for CIM. Mrs. Gentoso presented a very important topic on Precast Concrete Plant Safety provided by the NPCA (National Precast Association). Safety is paramount where we live, work, and play. Working in a precast plant can (Continued on page 9)
CIM Students Shine in the NJ ACI Chapter Dinner

CIM students as a guest speaker for quality control and inspection. Rebecca explained the different steps that she takes in analyzing the coarse and fine aggregate in the quarry. She explained sieve analysis, proper way to construct aggregate piles, and the steps from blasting rock to when the aggregates are in their respective piles.

Sep 26, 2011

Rebecca Guardino, Quality Control Manager with Tilcon, presented to the CIM students as a guest speaker for quality control and inspection. Rebecca explained the different steps that she takes in analyzing the coarse and fine aggregate in the quarry. She explained sieve analysis, proper way to construct aggregate piles, and the steps from blasting rock to when the aggregates are in their respective piles.

Guest Speakers Cont.

expose personnel to extreme hazards that can lead to serious injury or death. Jamie did a great job in pointing out the many common hazards found in a precast plant and procedures to safeguard the well-being of machine operators as well as concrete placement workers. This topic was very informative and we are very grateful for the presentation.

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September 19, 2011

CIM students visited Sika Corporate facility in Lyndhurst, NJ. Dr. Ketan Sompura presented a topic titled “Pervious Concrete”. Students entered the R&D laboratory and witnessed the batching of pervious concrete. They then went on to the conference room where Ketan gave a presentation on pervious concrete. He discussed the environmental, safety, and economics of utilizing pervious concrete in certain construction projects.

September 29, 2011

The CIM specialist, Anlee Orama, and Nicholas Gomez, CIM senior student, traveled to Mercer County College, MCC, in West Windsor, NJ. Anlee gave a presentation and happily answered many questions. CIM annual report, pamphlets and brochures were distributed during the presentation. There was a high level of interest among the students and many of them are willing to visit NJIT to learn more about the program and campus life. We were more than happy to invite the students to our Hycrete Inc. Social at NJIT which will take place on October 12. We believe that MCC is a wonderful program and this event is only the beginning of a great relationship. I would like to take the chance thank Mr. James Maccariella Jr., the Coordinator of Civil Engineering Technology and Engineering Science at MCC, for welcoming us to present the CIM program to a group of students.

Interested in establishing a field trip for CIM students?

Please contact: Mahgoub@njit.edu

Orama@njit.edu
CIM Travels
National Ready Mixed Concrete Association (NRMCA)
Concrete Works Conference & Expo
(San Diego, CA)

NJIT-CIM students, Robert Samul and Nicholas Thomas, along with CIM Specialist Anlee Orama attended the 2011 NRMCA's National Mixer Driver Championship. The event took place at Vulcan ready mixed plant in the beautiful city of San Diego, California. The students participated as judges in key areas of the competition. The event was a great success and the attendance of the families of the truck drivers was inspirational.

September 25, 2011

NRMCA once again volunteered to create special business cards for the CIM students and they gave them during the registration event. Robert and Nicholas were assigned a booth to help guests with their conference registration. At 6:30 pm we attended the welcoming reception. It was a great opportunity to network and learn about new products and processes in the concrete industry. Larry Silvi, President of Silvi Group, was among the attendees. CIM students were also assigned a CIM booth to promote the program.

Conference & Expo

September 26, 2011

The second day of the 2011 NRMCA's Concrete Works & Board of Directors Meeting which took place in the beautiful city of San Diego, CA. The CIM students, Robert Samul and Nicholas Thomas, began bright and early by being volunteers to assist event registration and venue sign in. The students also tended the CIM booth at the Pavilion exhibit hall along with many companies. At 9:00 am there was an opening general session where guest speaker Tom Freeman gave a wonderful presentation on the economics of the concrete industry.
The event everyone has been waiting for, the 2011 Driver Championship Awards Dinner, took place at 7:30 pm. The event was an amazing success. An incredible video was produced showing us a slideshow of the Driver Championship event before driver winners were announced. The winner of the competition was Larry Dale Lowell Jr. from GCC Mid-Continent Concrete Company. It was a highly emotional experience when he broke down in tears of happiness. Congratulations to all participants of the event.

September 27, 2011

A dynamic father and daughter dual, Dr. Tanya Komas and Dr. Willard Wattenburg. Dr. Komas is the CIM program director of Chico State University. Dr. Wattenburg is a senior research scientist at the Research Foundation at California State University. He discussed how some of the most important issues of our time directly affect the growth of the concrete industry and how it can be addressed by holding people and groups accountable through straightforward science and broad vision. Tanya presented a historic approach of the appreciation and commitment we should implement to carry on our future industries success. Tanya is proud to be part of the rehabilitation and restoration of the various concrete structures in Alcatraz Island off the coast of California. This is a spectacular example of what the concrete industry is all about.

Lastly, the Hanson management team takes pride in employing these environmentally friendly practices and has reported a gain in return on investment on systems purchased to improve efficiency. We would like to thank NRMCA for setting up the visit as it was a great experience for the students.
The Concrete Industry Management (CIM) program – a business intensive program that awards students with a four-year Bachelor of Science degree in Concrete Industry Management – is seeking donations for their seventh annual auction to be held at the World of Concrete. The auction is scheduled for Wednesday, Jan. 25 at the Las Vegas Convention Center. The silent auction will be held from 11 a.m. to 1 p.m. and the live auction begins at 1 p.m.

According to Gene Martineau, Chairman of the CIM National Steering Committee, “The proceeds from the 2012 Auction will benefit the CIM National Steering Committee (NSC) and support the current CIM programs, the new Executive MBA program, as well as help fund future program expansion.” Organizers hope the 2012 Auction is even bigger than the 2011 Auction, which raised over $500,000. The money raised from the CIM Auction will benefit the NSC and support the CIM programs at Middle Tennessee State University, Arizona State University, New Jersey Institute of Technology, Texas State University and the California State University - Chico.

"The NSC of CIM has raised more than $2 million through the previous six CIM Auctions," said Brian Gallagher, CIM Marketing Committee Chairman. "We've been blessed with tremendous support from the concrete industry. The World of Concrete (WOC) Show Management, Hanley Wood Publications, The Concrete Producer magazine, Concrete Construction magazine, McNeilus and Ritchie Bros. Auctioneers have been with us from the beginning," he added. Previous auction items has included concrete mixer trucks, cement, skid steers, concrete saws, drills, mixers, vibrators, scaffolding, safety equipment, screeds, fiber transport systems, dust collectors, NDT equipment, decorative concrete tools, water meters, pumps, generators, training sessions, reference books, advertisements, laptop computers, mobile computers, sports memorabilia, sports travel packages, golf school packages and vacation travel packages.

Those interested in making a donation should contact CIM Auction Committee Chairman Gene Martineau at eugenemartineau@comcast.net or 904-735-5537