

CIM Program

2007-2008 Institutional Reports

Presented to the

CIM National Steering Committee Board of Directors

October 2, 2008



"Advancing the Concrete Industry by Degrees"



2007-2008 Institutional Reports

TABLE OF CONTENTS

Introduction letter from Chairman Martineau	5
Middle Tennessee State University	6
New Jersey Institute of Technology	24
California State University, Chico	29
Arizona State University	39
Texas State University San Marcos	47



October 2, 2008

To: CIM National Steering Committee Board Members CIM National Steering Committee Members

Ladies and Gentlemen:

As the Chairman of the CIM National Steering Committee, I take great pleasure in presenting the 2008 annual compilation of CIM Institutional Reports for your review.

As the CIM program continues to grow both in the number of students enrolled as well as the number of institutions offering a degree in CIM, it is crucial that as a governing body we are well informed of the direction and progress of each institution. In addition we must ensure the maintenance of the concrete industry's vision for CIM and core curriculum throughout all of the programs.

This compilation provides a structured in-depth look at the status of each of our four existing CIM programs, including our flagship program at Middle Tennessee State University and our expansion programs at Arizona State University, California State Chico and New Jersey Institute of Technology. The Directors of each program were provided with a standardized outline format and asked to submit the progress of their programs to date and their expectations for the coming years. We are also including the latest update on the excellent progress in establishing our newest program at Texas State University.

This document is a living document. Should you have any suggestions for additional information you would find useful, please let us know. We will continue to compile these Institutional Reports on an annual basis in advance of our fall meetings.

I appreciate your continued commitment to the CIM program, and your careful review of the enclosed reports. I welcome any comments and questions about this document or any other aspect of the CIM program.

Sincerely,

Eugene & Martineau

Eugene P. Martineau Chairman, CIM National Steering Committee



Annual Institutional CIM Program Report 2007-2008

Executive Summary

Partnership has been the cornerstone of our success. It is over the past year that we have continued to create new partnerships and foster the existing ones to ensure a strong, diverse set of companies supporting our CIM program.

Our University president has set a goal to make our building campaign a priority. He will do what it takes to secure the funds for our much needed facility. In the wake of the economy downturn he has committed to think outside the box and go after matching funds from the State and private investors in hopes of reducing the amount of funding our program will have to produce. We are on the map and working diligently to get the "bricks and mortar" in place to become the Center of Excellence for Concrete Education and Research. This effort is being led by Danny Rodgers and Pete DeLay for which our program is so grateful for their time and leadership.

The CIM Patrons were led this year by Mr. Lee Thrasher as Patrons president. He accomplished a few key initiatives that reinforce how important the Patrons are to the program. He created and delivered an Alumni Newsletter via email to all of our registered alumni. He began reworking the Patrons' bylaws to define the membership in a way that can include any CIM alumni that wants to give back to the program. The idea of having alumni become Patrons has worked so well for MTSU that it was important to create a bylaw structure that supported that interest. Finally, Lee envisioned a coming together of all the CIM schools and supporting associations to focus on curriculum. The goal being how can we enhance the current curriculum while reinforcing that a CIM student = CIM student no matter what university they attend. IT was a rousing success to say the least and the participation was phenomenal. All the schools walked away with armloads of information and resources to take this program to a new level in diversifying the curriculum and strengthening it.

The Executive Advisory Council (EAC) has continued to support efforts in the Southeast that are important to our program. Our Chairman, Gene Hightower, and Vice Chairman, Clay Fischer have focused on recruiting, scholarships and building campaign. 4 subcommittees, Curriculum, Building, Research and Recruiting, have each held multiple conference calls and all completed action items that are already being integrated into the program. They meet on campus two times per year, a reception was held for them at World of Concrete and activity has been consistent throughout the year.

Staff changes/additions have included Mr. Paul Litchy as full time clinical track to focus on Concrete Contracting. We are continually understaffed at the faculty level and have met with administration to solidify a fall 2008 hire to meet the demands of the program. We generate a faculty need each semester and we have done our part by teaching large sections to accommodate our growth without adding staff. With the fall 2008 addition of Dr. Gerald Morton and conversion of Dr. Zhifu Yang from temporary to permanent, our faculty distribution is 1 tenured faculty, 3 tenure track faculty, 2 clinical track. We continue to use adjuncts so the need for more faculties is still a priority.

The importance of NSC's leadership is more apparent every day as we grow and reach new heights. MTSU is very appreciative of the sweat equity that NSC has put towards this program. We are a willing and ready partner to accomplish the goals set by our leaders. Thank you for the investment in our student's future.

Dr. Heather J. Brown CIM Director and Associate Professor

Number of Majors:

Fall 2007 – 386 declared
 Spring 2008 – 415 declared

2007-08 Enrollment Data

Concrete Industry Management - 2007 Fall Faculty SCH

				Total		Faculty		Faculty
	Sections	Credit Hours (CH)	Equivalent CH	Enrollment	WSCH	Generated	Headcount	Needed
CIM 1010	1	2	2	103	206	0.549333333	386	0.133
CIM 1050	1	2	2	99	198	0.528		0.133
CIM 3000	6	4	7.5	65	260	0.8		0.500
CIM 3050	2	3	6	50	150	0.461538462		0.400
CIM 3060	2	3	6	66	198	0.609230769		0.400
CIM 3100	1	3	3	36	108	0.332307692		0.200
CIM 3300	1	2	2	52	104	0.32		0.133
CIM 4030	1	3	3	30	90	0.276923077		0.200
CIM 4050	1	3	3	36	108	0.332307692		0.200
CIM 4060	1	3	3	41	123	0.378461538		0.200
CIM 4150	1	3	3	48	144	0.443076923		0.200
CIM 4200	2	2	6	32	64	0.196923077		0.400
CIM 4910	1	3	3	29	87	0.267692308		0.200
CIM 4800	1	3	3	22	66	0.203076923		0.200
CIM 4800	1	1	1	5	5	0.015384615		0.067
CIM 3080	1	3	3	21	63	0.193846154		0.200
CIM 3200	1	3	3	18	54	0.166153846		0.200
								3.9666
Total	25		59.5		2028	6.572034188		67
Tenure-Tra	ck Faculty Releas	e Time for Advisi	ng and Acade	mic Activiti	es (# of	Tenure-Track *	3/15)	0.600
Specially Approved Faculty Release Time Excluding Director								0.000
True Total Faculty Needs							4.567	
Full-Time Faculty Employed (minus Director release)							4.500	
Net Facul	ty Short							0.067

Concrete Industry Management - 2008 Spring Faculty SCH

		Credit						
	Sections	Hours (CH)	Equivalent CH	Total Enrollment	WSCH	Faculty Generated	Headcount	Faculty Needed
CIM 1010	1	2	2	100	200	0.533333333	415	0.133
CIM 1050	2	1.5	3	125	187.5	0.5		0.200
CIM 3000	4	4	7.5	39	156	0.416		0.500
CIM 3050	2	3	6	48	144	0.384		0.400
CIM 3060	2	3	6	48	144	0.384		0.400
CIM 3100	1	3	3	36	108	0.288		0.200
CIM 3200	1	3	3	8	24	0.064		0.200
CIM 3300	1	3	3	25	75	0.2		0.200
CIM 4030	1	3	3	30	90	0.24		0.200
CIM 4050	2	3	6	43	129	0.344		0.400
CIM 4060	1	3	3	36	108	0.288		0.200

CIM 4150	2	3	6	40	120	0.32	0.400
CIM 4200	2	2	6	34	68	0.181333333	0.400
CIM 4910	1	3	3	53	159	0.424	0.200
CIM 4800	1	3	3	18	54	0.144	0.200
CIM 4800	1	1	1	9	9	0.024	0.067
CIM 3070	1	3	3	11	33	0.088	0.200
CIM 3080	1	3	3	21	63	0.168	0.200
CIM 4010	1	3	3	9	27	0.072	0.200
					1808.		
Total	26		67.5		5	5.744888889	4.900
Tenure-Track	Faculty R	elease Time	for Advising a	nd Acaden	nic Activ	<pre>/ities (# of Tenure-Track</pre>	
*3/15)							0.600
Specially App	proved Fac	ulty Release	Time Excludi	ng Directo	r		0.000
True Total Faculty Needs					5.500		
Full-Time Faculty Employed (minus Director release)					4.500		
Net Faculty	Need						1.000

- SCH Calculation:
 - 1. SCH = # of Credit Hours * Enrollment
 - 2. Faculty Generated = SCH/375 for 1000 and 2000 level courses
 - 3. Faculty Generated = SCH/325 for 3000 and 4000 level courses
 - 4. Faculty Needed = Equivalent Credit Hours/15

Projected Enrollments

Semester	2006-2007	2007-2008	2008-2009	2009-2010
	(actual)	(actual)	(projected)	(projected)
Fall	317	386	420	460
Spring	367	415	450	500

Professional Activities

Research

- New Research
 - 1. Pervious Concrete Compilation Update, RMC Research Foundation, \$5000.00, January May 2008
 - Measurement of TSS and Other Pollutant Removal by Pervious Concrete and Incorporation of Results into the Site Development Tool, Tennessee Department of Environment and Conservation, \$34,710.00, Nov. 1, 2007-Nov. 30, 2008
 - 3. CLEAR Water Institute, Foundation Special Projects, \$4000.00, April 2008, 1 year
 - 4. DRIPS Project, MTSU Green Fee Funding, \$13,500, March 2008, 1 year

• Ongoing Research

- Integration of an Inductively Coupled Plasma Mass Spectrometer into the Undergraduate Concrete and Geology Curricula and Research Programs, NSF CCLI, \$160,465, August 2005-August 2008
- 2. Concrete Industry Management: Accelerated Program Expansion (APEX), NSF PFI, \$599,000, September 2004 October 2008.

Pending

- 1. Development of EMAS Systems for General Aviation Airports, FAA Federal Earmark, 3.2 Million, 2008-2009 Funding
- 2. Urban Watershed Management, Federal Earmark, 1.5 Million, 2008-2009 Funding

• Research with CIM Students

- 1. Impact Resistance of Fiber Reinforced Concrete, Josh Floyd and Jeremy Mertens, research
- 2. RCC Mix Design Optimization for PCA, Jeremy Mertens, research
- 3. ASTM Pervious Round Robin Compressive Strength Testing: Matt Mikesell, Michael Campbell, and Charles Bain, research
- 4. Field Permeability of Pervious Concrete using proposed ASTM method: Michael Nelson and Drew Brown, research
- 5. Trial batching with dust byproduct from fiberglass polyurethane boards: Emily Tartaglia and Shane Dinsmore, research
- 6. Lake Cumberland special mix design project: Duston Carothers, Justin Smithson, and Ryan Swindell, research
- 7. New Bethel Cemetery Plot Layout: Shane T. Copen and Arshad Zarrin Kafsh, project
- 8. ACI 214 Analysis of Commercial Data: Hardie A. Parsons, Matthew T. Rhodes, and Robert C. Williams, research
- 9. Excel Spreadsheet modeling of formwork design: David Miller, research
- 10. From Waste to Cement Based Building Material: An Evaluation of Fluff® from Municipal Solid Waste as a Viable Source of Material for Making Cement Based Building Materials, Frank Duncan, thesis research
- 11. The Use of Biodiesel in the Ready Mix Concrete Industry, James Arnold, research report
- 12. Leaching And Adsorption Of Contaminants Associated With Fly Ash Amended Pervious Concrete, Jessie Weatherly, thesis research
- Influence of mixture proportions and curing conditions on freeze and thaw durability of pervious concrete. (Students involved: Fall 2007 – Bugbee, Greek, Hamm, Hiller, Kelly, Mills, Pratt, Schneider, and Spring 2008 – Crowell, Hart, Summers, Swindell)
- 14. Effects of entrained air voids and surface tension of fluid on transport properties of concrete. (Students involved: Spring 2008 Faust, Prewitt, Litchford, Smith, Reynolds)
- 15. Effects of nano-particles on properties and microstructure of concrete. (Students involved: Spring 2008 Birtsch, Blevins, Jones, Hunter, Gilliland, Goodrich, Ferraro, Howard, Kurdy, Yelton)

Presentations

- Dr. Heather J. Brown
 - 1. Pervious Concrete A Stormwater Solution, Land Development Today, Detroit, MI, July 10, 2007
 - 2. Pervious Concrete A Stormwater Solution, Land Development Today, Lexington, KY, July 12, 2007
 - 3. Pervious Concrete Pavements for a More Livable Environment, Houston ACI Chapter, Houston, TX, November 1, 2007.
 - 4. Field Permeability Task Group Results, ASTM, Tampa, FL, Dec. 2-3, 2007
 - 5. Pervious Concrete A Stormwater Solution, Land Development Today, Nashville, TN, April 24, 2008
 - 6. Pervious Concrete A Stormwater Solution, Land Development Today, Little Rock, AR, May 14, 2008
 - 7. Masonry Inspector Testing and Review Session, Masonry Institute of TN, Nashville, TN, Feb. 8, 2008
 - 8. Masonry Inspector Testing and Review Session, Masonry Institute of TN, Knoxville, TN, March 21, 2008
 - 9. Restoring Stream Baseflow at an Existing Sewer Line Stream Crossing, Eighteenth Tennessee Water Resources Symposium, Montgomery Bell State Park, April 16, 2008

- Dr. Zhifu Yang
 - 1. ACI 2008 Spring Convention, Los Angeles, CA. Attending committee meetings on concrete formworks and numerous presentations on shrinkage and durability of concrete
 - 2. 2008 Annual Concrete Conference (workshop), Tennessee Concrete Association, Franklin, TN. Attending presentations on troubleshooting concrete and decorative concrete.
 - 3. YANG, Z., WEISS, J., AND OLEK, J., 2007, "WATER ABSORPTION IN PARTIALLY SATURATED FRACTURED CONCRETE," RILEM WORKSHOP, GHENT, BELGIUM, SEPTEMBER.

Publications

- Yang, Z., Weiss, J., and Olek, J., 2007, "Water Absorption In Partially Saturated Fractured Concrete," Proceeding of Transport Mechanisms in Cracked Concrete, RILEM Workshop, Ghent, Belgium, September.
- 2. Yang, Z., "Durability of Pervious Concrete under Slow Freeze and Thaw Conditions," Under preparation for ACI Materials Journal
- 3. Brown, Griggs, Martin, Engineering Design Methods to Prevent Stream Base Flow Interception by Gravity Sewer Line Construction, Tennessee Public Works, Volume 25, Number 3, Page 22-26, September/October 2007.
- Brown, Griggs, Martin, Restoring Stream Baseflow at an Existing Sewer Line Stream Crossing, Eighteenth Tennessee American Water Resources Association Proceedings, April 2008 (http://tnawra.er.usgs.gov/2008/Proceedings2008.pdf)
- 5. Brown, Griggs, Martin, Restoring Stream Baseflow at an Existing Sewer Line Stream Crossing, Tennessee Public Works, Volume – TBA, Submitted April 2008.
- 6. "Popular MTSU degree cements industry, academia relationship" *Hottest major is concrete management* July 20, 2007, AP Article, 104 Newspapers Nationwide

CIM Faculty & Staff

- A full teaching load of a full time faculty is 15 semester hours per semester for Clinical and Full Time Temporary Positions. A full teaching load is 12 semester hours per semester for Full Time Tenure or Tenure Track Positions
- Fall 2007 Faculty Workload



CIM Faculty Load Fall 2007

					Other		Number of
				Institutional/Public	Professional	Total	Hours
Instructor	Teaching	Administrative	Advising	Services	Service	Percentage	Taught
Brown	32%	20%	14%	7%	27%	100%	7.40
Fulks	87%		13%			100%	13.00
Yang	93%		20%			113%	14.00
Knight	83%		12%	5%		100%	12.40
Litchy	87%		0%			87%	13.00

• Spring 2008 Faculty Workload



CIM Faculty Workload Spring 2008

Instructor	Teaching	Administrative	Advising	Research & Creative Activity	Total Percentage	Number of Hours Taught
Brown	56%	15%	4%		75%	8.40
Fulks	100%		7%		107%	15.00
Yang	100%		7%		107%	15.00
Knight	105%		8%		113%	15.80
Litchy	80%				80%	12.00

- Adjuncts/GTA
 - 1. Mr. Tripp Arnold Graduate Teaching Assistant, 2 semesters, 1 class CIM 4030.
- Staff
 - 1. Mrs. Sally Bradford Secretary; 100% CIM
 - 2. Mrs. Becky Linville Marketing and Recruiting Coordinator; 100%
 - 3. Sarah Campbell Student Worker, 12 hours weekly

Scholarships

CIM Industry Provided

- 1. ARKANSAS READY-MIX CONCRETE ASSOCIATION Scholarship Amount: \$1,000.00 per year for four years
- 2. CALIFORNIA CEMENT PROMOTION COUNCIL SCHOLARSHIP Scholarship Amount: \$4,000.00 per year for four years
- 3. CEMEX Annual tuition plus \$500.00 per semester for four years
- 4. DR. EARL KEESE CIM SCHOLARSHIP 1,000.00 one-time scholarship
- 5. Florida Independent Concrete & Associated Products Senior Intern Scholarship \$2,000.00 one-time scholarship for the student's senior year
- 6. GEORGIA CONCRETE & PRODUCTS ASSOCIATION SCHOLARSHIP \$2,000.00 per year for four years
- 7. ILLINOIS READY-MIXED CONCRETE ASSOICIATION SCHOLARSHIP To be determined
- 8. MARYLAND READY-MIXED CONCRETE ASSOCIATION SCHOLARSHIP \$2,000.00 for one-year
- 9. BASF/MASTER BUILDERS SCHOLARSHIP Two scholarships will be awarded for \$5,000.00 per year for four years
- 10. NATIONAL ASSOCIATION OF WOMEN IN CONSTRUCTION The amount is determined each year
- 11. R.C. MARTIN MEMORIAL SCHOLARSHIP \$3,000.00 per year for four years
- 12. TENNESSEE CONCRETE ASSOCIATION SCHOLARSHIP \$500.00 for the freshman year, and \$2,500.00 each year thereafter for up to four years total
- 13. VIRGINIA READY-MIXED CONCRETE ASSOCIATION SCHOLARSHIP Annual tuition for up to four years
- 14. WISCONSIN READY-MIXED CONCRETE ASSOCIATION SCHOLARSHIP \$5,000.00 one time scholarship
- 15. COMMAND ALKON SCHOLARSHIP Scholarship will be awarded for \$5,000.00 per year for four years.
- 16. CAROLINAS READY-MIXED CONCRETE ASSOCIATION SCHILARSHIP The amount is determined each year
- 17. CONCRETE SUPPLY Scholarship will be awarded for \$2,500.00 per year up to four years.

- 18. LEHIGH CEMENT SCHOLARSHIP The amount is determined each year
- 19. Sika: awarded to 2 students majoring in CIM, for one year. \$2,500.00 per student
- 20. Titan America: awarded to a junior or senior majoring in CIM, recipients shall be from the states of FL, VR, NC, preference shall be given to students who are depends of Titan America regardless of their home state.
- 21. CIM General: Not always awarded, depending if we have donations. Should be awarded For Fall 2007 and spring 2008. Amount will be decided by CIM Director, according to funds.
- 22. J.W. "Red" Victory Scholarship: recipients shall be a junior or senior, preference shall be given to student from Rutherford Co. Scholarship amount varies.
- 23. William M. Avery: awarded to 1 student majoring in CIM, amount 2,500 this year.
- 24. H. Elton Cook Endowed Scholarship: awarded to a MMC Inc employee dependent or any other <u>qualified student</u> from AL, AR, LA, MS, TN. – This year is \$4,360.85
- 25. Concrete Plant Manufacturers Bureau Scholarship Dollar amount TBD
- 26. National Precast Concrete Association Educational Foundation Scholarship, Scholarship will not exceed four years and are awarded in the amount of \$1,000 per academic year.

Internships

• Mentored <u>81</u> students for CIM Internships during summer 2007, fall 2007 and spring 2008.

Marketing Activities

- Dr. Heather J. Brown activities
 - 1. CIM Update, FICAP, Long Boat Key, FL, July 19-21, 2007.
 - 2. CIM Update, IRMCA, Naples, FL, Feb. 26-27, 2008
 - 3. Innovations and Emerging Trends, Systech Customer Conference, Chicago, IL, Feb. 28, 2008
 - 4. Integration of ASTM Standards in CIM Curriculum, ASTM International, Gaithersburg, MD, Feb. 22, 2008.
 - 5. CIM Update, NSC, Las Vegas, January 24, 2008
 - 6. CIM Update, ABC Luncheon, Nashville, TN, Oct. 18, 2007
 - 7. CIM Update, TCA Convention, Franklin, TN, Feb. 23, 2008
 - 8. CIM Update, Rutherford County Chamber of Commerce, MTSU Campus, Feb. 6, 2008
- Mrs. Becky Linville activities
 - 1. Participated in MTSU Department Fair.
 - 2. Spoke to numerous University 1010 Classes (university seminar class for incoming freshmen & transfer students).
 - 3. Participated in twice weekly Info Fairs for MTSU Customs (Freshman orientation).
 - 4. Attended 2008 American School Counselors Association Conference in Atlanta.
 - 5. Contacted various Tennessee community colleges via email.
 - 6. Contacted several large school systems in Tennessee via email.
 - 7. Accompanied MTSU Admissions Office on recruitment trips to East Tennessee (Johnson City/Knoxville) and West Tennessee (Memphis/Jackson).
 - 8. Attended Kentucky School Counselors Association Conference in Lexington, KY.

Student Educational Activities

- 1st place ACI International Concrete Construction Competition Fall 2006, Denver, CO. Mentored by Dr. Heather J. Brown, 5 Students
- 3rd place ACI International Concrete Construction Competition Spring 2007, Atlanta, GA, Mentored by Dr. Heather J. Brown, 3 students
- ASCC Annual Conference, September 2006, Milwaukee, WI 16 students
- World of Concrete, January 2007, Las Vegas, NV 24 students
- MCPX Trade Show, February 2007, Orlando, FL 8 students
- NRMCA Annual Convention, March 2007, La Jolla, CA 16 students
- Decorative Concrete Countertop Institute Seminar, Raleigh, NC, 2 students
- 1st Annual Women In Concrete Luncheon, Keynote: Camilla Fizer, April 2007 35 attendees

Involvement of the Patrons/Industry

4th Annual CIM Golf Tournament, Concrete Industry Supporters, \$82,000 towards MTSU Building Campaign and CIM Patrons

Gold Sponsors Cemex Holcim

Silver Sponsors NRMCA

Bronze Sponsors MMC ASCC BASF

30 Golf teams with 120 players BASF x3 Metro Ready Mix Euclid Sika Qore Inc. Gerdau Ameristeel LoJac Stephens MFG SEFA **Greg Belew** Hacken & Grinnin Bunch WCRM Metromont Ingram **US** Concrete Durafiber Nashville Ready Mix Turner Universal x2 MMC Buzzi Unicem Cemex Stalite Smyrna Ready Mix x 2 2 Single Player teams

Contact(s)	Contact Email	Contact Phone	Type of contact S = Social I = Interview P = Phone Call Only E = Email Only CP = Presentation H = Hired CV = Campus Visit
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CIM Contacts List - 2007 -2008 Academic Year

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		(main offc) 704-647-6157	
Stephen Bullock	sbullock@powercurbers.com	(direct line)	P, E, I
Lisa Cash Rusty Winters	lisa.cash@propexinc.com rusty.winters@propexinc.com	423-553-2310	P, E
Henry Bernal	henry.bernal@reacontract.com	704-553-6523	S, I
Lee Thrasher	leet@rmusainc.com	478-447-5536	
Nicki Youngstrom	nickiy@rmusainc.com	205-986-4829	S, I, H
Anderson Lee	landerson@rinker.com	303-791-1600 (ext 35) 303-587-4209 (cell)	Н
			СР
Kent Waide	rucoblox@bellsouth.net	370-821-3870	P, E
		623-487-4886	S, I
Gail Schmid	gschmid@seqconcrete.com	423-837-7913 800-824-0824	н
Zachary Langford	zlangford@seretta.com	704-504-1887	S, I
Bruce Strickland	strickland.bruce@sika-corp.com	423-421-2995	P, E, I
Peter Pieterse Betty Lincsey	ppieterse@standardconcrete.org blindsey@standardconcrete.org	251-443-1113 (office) 251-259-7508 (cell) 706-322-3274 (Betty)	P, E, H, S, I
Terri Osborne	tosborne@stansellelectric.com	615-329-4944	S, I
Sandra Casper	scasper@structural.net	410-850-7000	S, I, H

Joe Primavera	jprimavera@thecoatingsgroup.com	817-676-2994	S, I
		815-678-4035	S, I
Tim Manherz Paulette Vincent	tmanherz@tasconcrete.com pvincent@tasconcrete.com		S, I
Janelle Peabody Rudd	tnoffice@tdkconstruction.com	615-895-8743	S, I
		615-360-7393	
Alan Sparkman	asparkman@trmca.org	615-975-6696 (cell)	S, I, CP
Amy Lester	alester@titanamerica.com	757-858-6564	S, I, H
Justin Hall	jrhall@ttco.com	615-231-6900	S, I, H
			S, I
Josh Leyhew	jlewhew@us-concrete.com	865-679-3337 865-679-3398 (cell)	S, I, H
Jim Lunsford	jiml@waynebros.com	704-938-8400	
Keith Wayne	keithw@waynebros.com	(ext 7026)	S, I, H
Maria Traina	mariat@westerngroup.com	314-427-1637 (ext, 121)	

Departmental Status

We have begun paperwork to obtain departmental status. It should take 1 year to complete the approval process. We have a lot of support to obtain this status. We are eager and hope that no roadblocks get in our way. This departmental status goes along with our effort to fundraise for a new CIM building. We did quite a bit of legwork in our silent phase of our campaign. We created a logo, schematics and fundraising CD to begin soliciting donors for our \$18 million dollar project.

Expenditure of National Steering Committee & Patron Funds

MTSU Operating Budget - \$44,375.00 from July 1, 2007-June 30, 2008 was given to CIM program from MTSU. We generate the rest of the income by teaching correspondence courses and ACI certification courses that come from student tuition. ACI certification dollars are not retained as income but are sent to ACI for payment. *See attached MTSU Budget for major category spending

Patrons Operating Budget - \$174,373.61 from June 2007 – May 2008 *See attached CIM Patrons budget for major category spending

Contributing Income – NSC \$100,000, Companies \$2213.00, Individuals \$540.00, Industry \$15,000, CIM Patrons Golf Tournament \$105,000

Line Item	University	Patrons & Foundation Account	NSC
Salaries and Benefits (33%)	\$77,140 Staff \$423,200 Faculty \$5,000 Students \$505,340 Total	\$20,000	\$0
Equipment	\$0	\$0	\$3,938.50
Travel	\$12,385.00	\$11,902.96	\$44,262.15(includes student travel)
Operating (Brochures, Flyers, etc.)	\$26,990.00	\$33,842.70	\$33,842.70
Scholarship	\$10,000.00	\$99,931.36	
Overhead			
Total	\$474,065.00	\$131,832.30	\$82,043.35

REPORT FZRBDSC FISCAL YEAR: 09

NET

MTSU MTSU Budget Status AS OF 01-JUL-2008

INDEX: FUND: PRED ORG ORG: ACTV: PROG:	M 210330 110001 G: 1335 13360 111111 200	Middle Tennessee State Concrete Industry Manag Undesignated B and G Eng Tech and Industrial Concrete Industry Manag Unassigned Instruction	oniversity ement Progra Studies ement Progra					
ACCOUNT	ACCOUNT	TITLE	ADJUSTED BUDGET	CURRENT PERIOD ACTIVITY	YEAR TO DATE ACTIVITY	BUDGET RESERVATIONS	AVAILABLE BALANCE	CMT TYP
51850	Concrete Mgm	t Certification Fees	21,000.00	.00	.00	.00	21,000.00	υ
TOTAL	Tuition and	Fees	21,000.00	.00	.00	.00	21,000.00	1
61310	Clerical and	Support Salaries	26,838.00	.00	.00	.00	26,838.00	U
61320 61410	Student Sala	ries and Wages	400.00 5,000.00	.00	.00	.00	400.00 5,000.00	υ
TOTAL	Salaries		32,238.00	.00	.00	.00	32,238.00	J
62000	Employee Ben	efits Budget Pool	28,050.00	.00	.00	.00	28,050.00	σ
62720	Employee Dep	endent Discount	.00	558.50	558.50	.00	-558.50	0
TOTAL	Employee Ben	efits	28,050.00	558.50	558.50	.00	27,491.50	1
73000 73210	Travel Budge Individual O	t Pool ut of State Faculty	12,385.00 .00	.00	.00	.00 .00	12,385.00 .00	U
TOTAL	Travel		12,385.00	.00	.00	.00	12,385.00)
74000	Operating Ex	pense Budget Pool	26,990.00	.00	.00	.00	26,990.00	σ
74510	supplies		.00	.00	.00	.00	.00	0
TOTAL	operating EX	penses	26,990.00	.00	.00	.00	26,990.00	
78000	Capital Expe	nse Budget Pool	5,000.00	.00	.00	.00	5,000.00	0
TOTAL	Capital Expe	nses	5,000.00	.00	.00	.00	5,000.00	
TOTAL A	CTIVITY							
TOTAL	Revenue		21,000.00	.00	.00	.00	21,000.00	J
TOTAL	Salaries and Expenses	Benefits	60,288.00 44,375.00	558.50 .00	558.50 .00	.00 .00	59,729.50 44,375.00	1
NET			-104,663.00	-558.50	-558.50	.00	-83,104.50	1
REPORT FISCAL	FZRBDSC YEAR: 09		MTSU Bud AS OF 01	ITSU Iget Status -JUL-2008		RON	DATE: 07/15/200 TIME: 10:42 AM PAGE: 116	8
COAS: INDEX: FUND: PRED OR ORG: ACTV: PROG:	M 210330 110001 1335 13360 111111 200	Middle Tennessee State Concrete Industry Manag Undesignated E and G Eng Tech and Industrial Concrete Industry Manag Unassigned Instruction	University gement Progra l Studies gement Progra					
ACCOUNT	ACCOUNT	TITLE	ADJUSTED BUDGET	CURRENT PERIOD ACTIVITY	YEAR TO DATE ACTIVITY	BUDGET RESERVATIONS	AVAILABLE BALANCE	CMT TYP
TOTAL 0 13360 TOTAL TOTAL TOTAL	RGANIZATION Concrete Ind Revenue Salaries and Expenses	dustry Management Progra l Benefits	21,000.00 60,288.00 44,375.00	.00 558.50 .00	.00 558.50	.00 .00	21,000.0 59,729.5 44,375.0	0

-83,663.00

-558.50

-558.50

.00

-83,104.50

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08/05/08 Accrual Basis

CIM Patrons Profit & Loss

June 1, 2007 through June 1, 2008

	Jun 1, '07 - Jun 1, 08
Ordinary Income/Expense	
4010 · Contributions Income 4010.10 · Companies 4010.20 · Individuals 4010.40 · Industry (PCA, RMC Foundation) 4010 · Contributions Income - Other	2,213.00 540.00 5,000.00 50,000.00
Total 4010 · Contributions Income	57,753.00
4010.15 · National Steering Committee 4070 · Annual Golf Tournament 4090 · Fundraising Efforts 4190 · Reimbursed Expenses 5050 · CIM truck sales income	50,000.00 43,350.00 3,600.00 15,313.91 4,356.70
Total Income	1/4,3/3.61
Expense 6020 · Faculty 6020.40 · Administrative 6020 · Faculty - Other	3,500.00 376.50
Total 6020 · Faculty	3,876.50
6030 · Grant Research 6040 · Meeting Expense 6040.10 · Board of Directors 6040.20 · NSC Annual Meeting 6040.25 · General Membership Meeting 6040 · Meeting Expense - Other	2,500.00 1,219.76 1,613.42 170.00 3,560.28
Total 6040 · Meeting Expense	6,563.46
6040.30 · EAC meeting 6050 · Nat'l & Regional Meetings 6050.10 · Directors Travel 6050.20 · Student Travel 6050.30 · Chaprones 6050.40 · Travel for Expansion 6050 · Nat'l & Regional Meetings - Other	1,463.00 2,810.05 34,564.89 4,813.27 1,533.30 540.64
Total 6050 · Nat'l & Regional Meetings	44,262.15
6060 · PR Task Group Recruiting 6060.25 · Web Site Maintenance & Updates	1,179.88
Total 6060 · PR Task Group Recruiting	1,179.88
6060.50 · Recruitment expenses 6070 · Accounting 6080 · Bank Service Charges 6080.05 · Merchant Bank 6085 · Credit Card Service Charges 6090 · Community Goodwill 6105 · Donations & Contributions 6120 · Equipment Purchase	350.00 1,460.00 112.87 170.08 412.86 50.00 1,000.00
6120.10 · Computers, Printers, etc 6120.20 · Lab Equipment	288.00 3,650.50
Total 6120 · Equipment Purchase	3,938.50
6125 · Equipment Repairs 6175 · Legal Fees 6260 · Scholarship Awards 6280 · Golf Tournament 6295 · State & Federal Filing Fees 6345 · Cell Phone	324.00 540.00 1,000.00 8,857.58 320.00
6345.10 · Program Director's Cell Phone 6345.20 · Staff Cell Phone Allowance	1,000.00
l otal 6345 · Cell Phone	3,000.00

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08/05/08

Accrual Basis

CIM Patrons Profit & Loss

June 1, 2007 through June 1, 2008

	Jun 1, '07 - Jun 1, 08
6350 · Thank You & Appreciation Gifts 6355 · Donation 6395 · Trade Show Incidentals 8100 · Building campaign expense 8500 · CIM Truck order 8550 · CIM Raffle	1,813.19 5,000.00 585.95 699.95 23,814.61 2,750.00
9000 · Honorariumn	10,000.00
Total Expense	126,044.58
Net Ordinary Income	48,329.03
Other Income/Expense Other Income 7000 · Other Income Sources 7020 · Interest Income 7060 · CIM Raffle 7000 · Other Income Sources - Other	10,699.05 7,450.00 2,800.00
Total 7000 · Other Income Sources	20,949.05
Total Other Income	20,949.05
Other Expense 7060.05 · CIM truck sales	60.28
Total Other Expense	60.28
Net Other Income	20,888.77
Net Income	69,217.80



Annual Institutional CIM Program Report 2007-2008

Executive Summary

New Jersey Institute of Technology officially started the CIMT program in August of 2006 with the hiring of a CIMT director. The first activities of the director were to set up the program, meet with other directors, and organize the curriculum, as well as hire faculty to teach the courses in what would be termed the organizational phase. Two phases have evolved: organizational and developmental.

The Concrete Industry Management Technology (CIMT) program at New Jersey Institute of Technology started offering courses in the spring semester of 2007 with the first two courses being CIMT 101 and CIMT 205. The total number of CIMT declared majors at the beginning of the spring semester was 7 students. As of June the total enrollment in the CIMT program was 17. Since that time we have lost several of those students to other programs, giving us a total at Fall, 2007 Semester of 9 declared majors. Based on several recruiting activities, we now have a total enrollment in the Fall, 2008 semester of 23 students.

In January, 2008, the Director of the Concrete Industry Management program, James R. Brown, resigned. Prof. Robert English, who was the chair of Engineering Technology (where the CIMT program currently resides), took over as interim Director. In May, 2008, Prof. English was appointed by the President of NJIT as Interim Dean for the School of Management, and continued in the interim role for the next several months. Dr. Ronald H. Rockland, who was a professor in the Engineering Technology Department, was appointed as the interim chair of the Engineering Technology Department.

Based on discussions with the President of NJIT, a commitment was made to hire a full-time, tenure track professor who would also be the Director of the CIM program. Several candidates responded to the advertising. The only candidate that we were interested in interviewing went overseas for several months, and would not be available to be interviewed until the end of the Fall, 2008 semester. This search for this faculty position is ongoing, and will take some time.

To help with both the recruitment of students, as well as advisement of students and the overall direction of the CIM program, Prof. John Wiggins was appointed as coordinator of the CIM program. Prof. Wiggins is a licensed professional engineer and attorney with over 35 years of professional experience in civil and construction engineering. Additionally, Prof. Wiggins has served as the Program Coordinator for the CET and CMT programs, from which a great many of the current CIMT students have been drawn. It is anticipated that this trend will continue and having one person serve in all three roles will aid in recruitment and transfers. Prof. Wiggins was involved in the CIMT program from the onset of the original discussions concerning the program and co-authored the current CIMT curriculum.

In addition, we have started a search for a CIM Recruiter, whose principal job will be to work with the local patrons, community colleges and high schools in the Northeast to recruit into this program.

Marketing efforts to date at NJIT have been through mass mailings to high schools, the school's Internet system, current students, school admissions and the industry patrons committee. In

addition, NJIT's CIM program has been represented at various high school career days and at open house events at NJIT and Brookdale College in Holmdel, New Jersey, as well as the WOC convention. In addition, this program has been represented at several major NJIT recruiting events, including their Fall and Winter Open House.

At present, there are two faculty members assigned to teach the CIMT courses. Typically, faculty members are shared with the Engineering Technology Department because of the small number of courses being offered in the CIMT program at present. As the enrollment grows, there are plans are to modify the current CMT curriculum to include some of the CIMT courses. This will allow several benefits. First, it will allow for greater enrollment in CIMT sections which are currently low due to the low enrollment in the CIMT program, but will also allow for the possible creation of a course path in concrete construction which has been discussed in the past. With respect to the current CIMT coursework, it will be necessary to look at alternate course offerings in other departments that meet the course objectives of the current curriculum that can be offered as replacement courses to allow the current CIM students to graduate on time.

Concrete Laboratory

The NJIT Concrete Lab, part of the Civil Engineering Department in Colton Hall, is divided into two major sections. The first section, comprising 3000 square feet is for studying the basics of concrete materials, properties, and testing. The second part, with 1800 square feet, is for advanced concrete testing. A third 3500 square foot structures laboratory is available for large scale structural testing of concrete elements.

The Basics lab was recently upgraded for the CIM Program. Facilities are provided to teach students all the fundamental ASTM testing necessary to implement ACI 211 concrete design. Two 400-thousand pound standard concrete cylinder testing machines are used to test for the modulus of elasticity, and the splitting tensile, as well as the compressive strength of the concrete. Preparations for ACI Field Technician Level I Certification are also promoted. The space presents the modern, high-tech nature of concrete. Freeform integrally colored work benches and thin-overlay floors comfortably disperse up to thirty students throughout the laboratory space, showing concrete doing things no other materials can do. Warm colors and high-tech goodies invite people to come into the space, turn the dials, break concrete and see that there is more to concrete than dumb rocks.

The same facilities that have been used over the years to support NJIT Civil Engineering PhD and Masters level concrete research is available to CIM students with projects that warrant their use. A sample preparation area with 12-inch diamond saw, vented sulfur capping, or grinding when justified, is available. Two MTS closed loop servo-hydraulic universal testing machines stand at the heart of this lab. The first is a 100-thousand pound system 442, with high-speed computer data-acquisition. The other is a 1-million pound extra-stiff load frame with triaxial capabilities, all under digital control with its own ultrahigh-speed data acquisition. A Logan freeze-thaw cabinet is available. A forced resonance device is used to monitor the change of the dynamic modulus of elasticity as the testing proceeds. This same device can be used to nondestructively estimate the strength of concrete cylinders. Other nondestructive testing methods, including Schmidt Hammer, Windsor Probe, and the Concrete Maturity Method are also stored in this area.

Faculty Generated by CIM Courses

NJIT has a faculty to student ratio of approximately 1:13 with a maximum of 1:17. A full teaching load for a professor is 4 courses, with reduction in teaching loads based on research or administrative responsibility.

Enrollment Data

There are 23 students in the CIM program as of Fall, 2008, and the breakdown of the students is shown in the table below:

FR	SO	JR	SR	Grand Total
9	6	7	1	23

This is a considerable change from the Fall, 2007 enrollment data, where there were nine students.

Research Opportunities

CIM students are invited to participate in virtually all concrete related research activities. Such activities can sometimes be sponsored research, student research, sometimes, industrial testing like freeze-thaw testing, or the residual strength of fiber reinforced concrete beams. There are currently independent activities concerning designing concrete for the modulus of elasticity, and the moisture loss of surface-hardened concrete. NJIT is constantly looking for more opportunities and ideas for concrete research, especially in concrete mix design, materials testing, statistical evaluation of concrete tests, concrete maturity method, and electronic data collection.

CIMT Faculty & Staff

	<u>No. Semester Hours</u>	<u>% Time CIMT</u>
Director/Faculty: James R Brown, P.E	3	100
Faculty: David Washington. P.E., PhD	3	25
Faculty: Allyn Luke	3	25

Program Support

Scholarships – as of 12/31/07

Name	Income	Awards	Balance	Comments
Annual Scholarships				
 CIM Celebration Gala – "Lead" Gift 	\$6,000 (FY07)	Pending reviews of GPA	\$6,000	One time transaction
Silvi Concrete	\$5,000 (FY'07)	Fall 07: Anlee Orama 1,000 Leean Orama 1,000	\$0	FY08 renewal reminder sent
Schuring Construction	\$1,000 (FY'07)	Fall 07: Mark Bishop 1,000	\$0	FY'08 renewal reminder sent
Total Annual	\$12,000			
Endowed Scholarships				
CIM Celebration Gala	\$73,151	N/A	N/A	Funds currently maturing – first award F 09
Sika Corporation	\$25,000	N/A	N/A	Funds currently maturing – first award F 09

Marketing Activities

Several events have taken place during the preceding year to inform students about the CIMT program at NJIT. These events are:

- Open House at NJIT for all departments.
- NJIT Fall and Winter Open House for high school students
- CIM booth at the World of Concrete in Las Vegas.
- CIM booth at Career Day at Brookdale Community College, NJ.
- Internet listings of offered programs.
- Mass mailings sent to NJ high schools and two-year colleges.
- NJIT marketing staff visiting guidance counselors.
- Lafarge sponsored social event with current NJIT students.
- Developed a NJIT CIM Newsletter, for marketing to potential patrons.

Student Educational Activities

- Two students attended the 2008 NRMCA meeting.
- Two students attended the Annual Concrete Awards Dinner.
- One student attended the 2008 World of Concrete meeting.
- NJACI Student Concrete Competition NJIT is hosting this competition in Sept 2008
- Student competition ACI Concrete Construction Competition 2008. The CIMT305 Concrete Application II entire class competed as a team in this competition.
- Student tours with Eastern Concrete Materials, Inc. Forming Project and concrete pours were observed at 77 Hudson Street, Jersey City, N.J.
- PCA Pervious Concrete Seminar Kenneth Justice, P.E. gave an in-class lecture
- Allyn Luke arrange with NJACI, the examiners in NJ, to allow CIM students to take the ACI Field Level 1 exam for the cost of the exam, a 50% reduction on the normal exam only cost. When space is available, these students are also invited to attend the whole course, essentially a 78% reduction on the normal cost. We have paid for We paid for Mark Bishops Field Level 1 training.

Involvement of the Patrons/Industry - Internships

•	Mark Bishop	URS	6/2/08 – 8/1/08
	Anles Orem	Cilco Corp	E/10/00 0/20/00

• Anlee Oram Sika Corp 5/19/08 -8/30/08

Description	Budget	Expense	Balance to date
	(*51,717.60)		
CIM Director Salary & fringe benefits: Oct 07-Jan 08	\$51,717.60	\$31,906.92	\$19,810.68
Lab and Instructional Equipment	\$19,810.68	\$2,222.00	\$17,588.68
Lab & Office Supplies	\$17,588.68	\$450.00	\$17,138.68
Lab & Office Supplies	\$17,138.68	\$383.50	\$16,755.18
Lab & Office Supplies	\$16,755.18	\$66.41	\$16,688.77
Travel: Domestic & one-day	\$16,688.77	\$10,497.99	\$6,190.78
Registration Fees	\$6,190.78	\$641.80	\$5,548.98
CIM Meetings/socials	\$5,548.98	\$790.35	\$4,758.63
Printing outside	\$4,758.63	\$2,882.47	\$1,876.16
Advertisements - recruitment	\$1,876.16	\$1,167.79	\$708.37
Bus Rental for CIM Program Conference	\$708.37	\$225.00	\$483.37
		\$51,234.23	
		1	
Budget Reserve - 9099	\$720.00		\$720.00
Balance to date			\$1,203.37

CIM Program Support Summary – May 2, 2008

*Balance forward = \$1,717.60 + \$50,000 deposit, Jan 2008

CIM Program Support Summary – June 1, 2008 – September 15, 2008

Description	Budget	Expense	Balance to date
Principal Grant/Revenues	\$150,000.00	\$120,531.03	\$29,468.00
Faculty Salaries	\$74,325.00	\$73,426.10	\$898.90
Hourly Staff	\$3,775.00	\$0.00	\$3,774.97
Fringe Benefits	\$14,775.00	\$14,142.41	\$632.59
Equipment - Major	\$26,587.00	\$16,818.19	\$9,768.81
Lab & Office Supplies	\$1,226.00	\$1,225.74	\$0.26
Travel/Conference/Meals	\$24,927.00	\$18,926.94	\$6,000.06
Printing/Postage/ outside/Media Serv	\$3,665.00	\$3,665.00	\$0.00
Budget Reserve - 9099	\$720.00		\$720.00
TOTAL NON-PERSONNEL	\$57,125.00	\$40,635.83	\$16,489.17
TOTAL EXPENSES	\$150,000.00	\$128,204.34	\$21,795.66
ACCOUNT TOTAL	\$150,000.00	\$128,204.38	\$21,795.59



Annual Institutional CIM Program Report 2007-2008

Executive Summary

The California State University, Chico, Concrete Industry Management Program has had an extremely successful year with increased enrollment, new classes, new faculty and research projects, and enthusiastic support from many levels of the University administration, concrete industry, and general public.

Following administrative and faculty changes in the College, the CIM program not only maintains the strong support of President Paul Zingg, Provost Sandra Flake, and the Interim Dean of the College of Engineering, Michael Ward, who was integral to the initial curriculum development for the CIM program at its inception over three years ago, and is now looking forward to strong, rapid growth in many areas with Tanya Komas as the new Director/Program Coordinator. At the end of the current academic year, the program will have offered all listed Chico State CIM courses and will have its first graduates. As such, the need for additional full-time faculty the following year will be critical as class sizes increase and more classes are concurrently offered. The administration has offered support for this need and plans are underway to begin a faculty search.

The CSU, Chico, patron group has continued with its unwavering commitment to the Chico State Program. Under the leadership of Doug Guerrero, the patrons were able to offer a half-tuition scholarship to every student in the major who maintained a 2.5 cumulative GPA and who continued positive progress toward completion of the CIM degree program. The CSU Chico CIM Officers have recently voted to continue this scholarship opportunity as well as maintain other previous funding levels in the current academic year.

Better than projected enrollments over the last year have brought continued excitement to the program within the college and larger academic and professional communities. New students in 2007-08 were primarily from California and also included several from other states. Chico State belongs to the Western Undergraduate Exchange (WUE), a program of the Western Interstate Commission for Higher Education (WICHE), which has helped several out-of-state students participate in the CIM program for greatly reduced tuition in the past year. The WUE program will also assist several new CIM majors for the upcoming year from such states as Oregon, North Dakota, Colorado, and Washington.

Action items that have been important in the past year included:

- Student Recruitment in the region, particularly with Junior Colleges. Identified 78 campuses with existing construction courses. Of those, 11 have existing courses in concrete. Visited and/or talked to 17 campuses.
- Developing the internship program; 11 upper-division students completed summer 2008 internships for course credit while an additional 6 lower-division students completed internships for the experience. These internships were in California, Oregon, Colorado, Washington State, and Washington DC.
- Lab Equipment procurement; purchased a 675,000 lb compression and flexural test plant with unique testing features along with several smaller units.
- Core Course development and fine-tuning of the curriculum to meet Chancellor's office mandates.
- Development of specialized focuses in sustainability of the built environment and concrete investigation and repair.

Action items that will be important in the coming year include:

- Full-time faculty hire in tenure track; full-time non-tenure track faculty hire
- A new level of cooperation with the California Pavement Preservation Center (CP2 Center), a California Department of Transportation (Cal Trans) funded research and education institution on the CSU Chico campus, which promises new synergies including sharing of faculty expertise in the classroom and laboratory, plans for shared equipment and lab development, and pursuit of joint technical research opportunities intended to include CIM student researchers.
- Development of, and equipment procurement for, the concrete and cement/mortar labs.
- Student socials to promote internships and career placement.
- Expanded student recruitment in the region as well as in Southern California, the Pacific Northwest, and other WUE states.
- Continued development of existing special focus courses (repair, sustainability), and development of elective course in decorative concrete with goal of sharing the curriculum with other CIM schools.
- Focus on developing mathematics and statistics skills among CIM students.
- Team-building and cooperation with other CIM schools.

By all evidence, the Concrete Industry Management Program at Chico State has had a very successful year. The National Steering Committee support along with the extremely effective California/Northwest Patrons Board has allowed the program to rapidly develop and exceed expectations. The University will proudly confer graduation diplomas upon 13 CIM graduates in May 2009, marking that group as the first graduating class of the Chico State CIM program. We look forward to continuing to work with the NSC as we continue to grow and move the program solidly forward toward Departmental Status within the College of Engineering.

Dr. Tanya Wattenburg Komas CIM Director and Assistant Professor

Enrollment Data

2007-08 Enrollment

Number of Majors: 38 majors (119 enrollments in CIMT courses for academic year 2007-08)

Fall 2007			
Courses	Students	CCH	FTE
CIMT 101 Intro to Concrete	25	2	3.3
CIMT 231 Fundamentals & Properties	13	4	3.5
CIMT 389 Internship	1	3	.2

Spring 2008							
Courses	Students	CCH	FTE				
CIMT 101 Intro to Concrete	21	2	2.8				
CIMT 241 Concrete Construction Methods	14	3	2.8				
CIMT 348 Repair and Preservation	24	3	4.8				
CIMT 363 Sustainability and Built							
Environment	21	3	4.2				

Projections for Current Semester: Fall 2008 Courses & Enrollment

Fall 2008						
Courses	Students	CCH	FTE			
CIMT 101 Intro to Concrete	23	2	2.9			
CIMT 231 Fundamentals & Properties	15	4	4.3			
CIMT 364 Decorative Concrete - Elective	12	3	2.8			
CIMT 389 Internship	11	3	2.2			
CIMT 444 Laboratory Assistant	4	2	.5			
CIMT 453 Concrete Facilities Management	12	3	3.2			

CIMT – Concrete Industry Management

CCH – Course Credit Hours

FTE – Full Time Equivalent Students (FTE = # Students enrolled * CCH /15)

Faculty Workload is based upon consideration of teaching assignments (Weighted Teaching Units (WTU's), other assigned duties (Assigned Weighted Teaching Units - AWTUs) and/or Student Faculty Ratio (SFR). In the College of Engineering faculty are nominally assigned 15 weighted teaching units or equivalents. This includes 3 AWTU for advising, committee work and other university service. A full time student is one taking a minimum of 12 units. However, SFRs are computed based on a 15 unit student load. Thus as an example, in a program where a faculty teaches 4 courses with 25 students enrolled in each and each course is 3 units of credit for the student, the faculty has 25 students x 3 units/15 all times 4 courses for a SFR of 1:20.

Projected Enrollments

	Year 1 (2006-2007)	Year 2 (2007-2008)
Majors	20 (actual)	38 (actual)
Enrollments	51 (actual)	119 (actual)
	Year 3 (2008-2009)	Year 4 (2009-2010)
Majors	45	60
Enrollments	135	180

Professional Activities

<u>Research</u>

NSF

\$97,000

Accelerated expansion of the Concrete Management Program. This project required the offering of an academic program in Concrete Management, assigning a full time Director, a part time recruitment person, training, collaborations with other programs and local patrons group.

PCA

\$44,280

Portland Cement Association (PCA) funded project to conduct a survey aimed at determining the quantity of concrete recycled in the US.

CALTRANS

California Department of Transportation awarded a contract to help create the Pavement Preservation Center (CP2 Center) to CSU, Chico. The center's mission includes applied and theoretical research on concrete (PC) and asphalt pavements, development of courses (5) related to the area, internships and rotational programs, conferences to advance highway preservation of pavements, and a joint effort within the college to develop a state-of-the art materials testing laboratory.

CIWMB

California Integrated Waste Management Board is focused on the reuse of materials for various applications and the management of such materials. CIWMB is funding studies, workshops, and curriculum development aimed at the pavement preservation processes that utilize waste products.

USFWS

United States Fish and Wildlife Services funded a project in connection with the City of Chico to assess and plan for the rehabilitation of a concrete fish ladder in Bidwell Park, Chico. The study is intended to lead to a \$1.2 - \$ 1.7 million construction project. CSU Chico's role was in the feasibility and preliminary design phases, as well as coordination of outreach efforts aimed at increasing community awareness.

Historic Concrete Investigations at Pointe du Hoc, Normandy, France \$50,000*

On-site evaluation and testing of WWII German concrete bunkers using state-of-the-art nondestructive testing equipment. Laboratory testing of concrete samples at Construction Technology Laboratories (CTL), Chicago. Collaborative project with related cliff stabilization and site survey projects by Texas A&M University and the American Battle Monuments Commission. Five Chico State CIM students participated in on-site testing in France. *Approximate due to unspecified in-kind donations of consultant time & equipment use.

National Ready Mix Concrete Association (NRMCA)

Management Consultant. Designed, developed, and delivered teaching and resource materials for a new 20-hour, Front-Line Supervision course. This course became part of the Certified Concrete Professional (CCP) Career Track Program, sponsored by NRMCA

Recycled Concrete Survey, Portland Cement Association

Study to provide published data to help document what portion of concrete in the US is recycled.

Historic Resource Assessments:

Fremont Weir, Willow Slough Weir, and Weir #2 \$14,000 Condition and significance assessments of historic concrete weirs for the State of California.

Publications

Komas, Tanya W. and Richard Burt, Ph.D. "Historic Concrete Investigations at Pointe du Hoc, Normandy, France," *Concrete in Focus*, National Ready Mixed Concrete Association, Summer 2008.

Komas, Tanya W. "Concrete Repair in the New Century," *Concrete Repair Bulletin*, International Concrete Repair Institute, The role of concrete durability, longevity, and repair in sustainable built environments, January 2008.

Presentations

Cooper-Carter, Kristin. Various presentations at industry and related conferences focusing on concrete and sustainability.

\$1,800,000

\$220.000

\$350.000

\$18,700

\$44,280

5 00 15 16

Cooper-Carter, Kristin. "Woman in Concrete." Presentation at the Women in Concrete Luncheon, World of Concrete, January 2008.

Komas, Tanya W. "Historic Concrete Investigations at Pointe du Hoc, Normandy, France." Session Chairman, Moderator, Speaker for Technical presentation for the Association for Preservation Technology International (APT) Annual Conference. Montreal, Canada. Scheduled for October 2008.

Komas, Tanya W. "Non-destructive Testing for Concrete, Then & Now: A Perspective from Academia", International Concrete Repair Institute, Daytona Beach, FL. April 2008. Komas, Tanya W. "Research in Progress: Historic Concrete Investigations at Pointe du Hoc, Normandy, France." Presentation and Poster, Associated Schools of Construction Annual Conference. Flagstaff, Arizona.

Komas, Tanya W. "The Greening of Concrete." Presentation for the American Institute of Architects Annual Design Conference, Monterey, CA.

Komas, Tanya W. "The Greening of Concrete." American Institute of Architects Professional Practice Seminars, San Diego and Los Angeles.

Vanderloop. Dirk. "Survival Tips for Frontline Production Supervisors" Seminar Presentation at CONEXPO-CON/AGG, Las Vegas, NV, March 2008.

CIM Faculty & Staff

Faculty

1. Tanya Komas 14 credit hours teaching, Fall/Spring 100% Fall/Spring Additional assignments: Internship coordination, lab development, advising, new course development, recruitment

2. Kristin Cooper-Carter 3 credit hours teaching, Spring 50% Fall/Spring Additional assignments: Director, recruitment

3. Dirk Vanderloop 0 credit hours teaching, Fall/Spring 50% Fall/Spring Additional assignments: Academic program coordination and development, advising, recruitment

4. Doug Yeggy 3 credit hours teaching, Spring Part-time Lecturer, Spring

Several additional faculty have been added for the current academic year. Leslie Anderson-Mills, with a background in civil engineering, mathematics, and statistics, joins the CIM Program as a 50/50 shared full-time lecturer with the Civil Engineering department. Part-time lecturers for the current academic year include Greg Juell, with 30+ years industry experience in cement chemistry, cement plant operations, and technical sales and Tim Hostettler, with 20+ years industry experience in ready mixed project management and plant operations and management. Additionally, faculty from the CP2 Center will serve as guest lecturers in the classroom and laboratory and plan to develop research opportunities with CIM faculty and students for their capstone projects. R. Gary Hicks, Technical Director for the CP2 Center and Mary Stroup-Gardiner, Senior Researcher with the CP2 Center, each have over 30+ years experience as professors of civil engineering and research for asphalt and concrete pavements and materials.

<u>Staff</u>

1. Terry Battle20%2. Clara Clark10%3. Jilian Morena50%3. Natalie StetsonUnreimbursed 20 hour/week internship working on recruitment

Program Support

Scholarships

In the Fall 2007, 29 scholarships were awarded totaling \$20,300 from the CSU Chico Patrons. In the Spring 2008, 23 scholarships were awarded totaling \$13,300 from the CSU Chico Patrons.

One CIM student was nominated for the prestigious Rawlins Award based on academic performance, contribution to the college, and demonstrated leadership ability. He was chosen by the University committee as a runner-up for the award. Another CIM student was nominated by the faculty for a Rotary Scholarship based on academic performance and standing in the college.

Marketing Activities

- Kristin Cooper-Carter activities
 - 1. CIM Updates at various industry-related conferences focusing on sustainability
- Tanya Wattenburg Komas activities
 - 1. CIM Update, International Concrete Repair Institute (ICRI), Las Vegas, NV, October 2007
 - 2. CIM Update, Northern California Chapter, ICRI, November 2007
 - 3. CIM Update, American Concrete Institute, Northern California Chapter
 - 4. CSU Chico campus Fraternity and Sorority recruitment presentations
 - 5. Concrete Presentations and Lab Exercises, Freshman Awareness Day, CSU, Chico
 - 6. Graphic design and layout of CSU Chico Poster and print materials
- Natalie Stetson activities
 - 1. Internship for her academic program in business working with CIM recruitment efforts to compile list of junior colleges with concrete related programs.
- Western Undergraduate Exchange (WUE), a program of the Western Interstate Commission for Higher Education (WICHE), http://em.csuchico.edu/admissions/wue/
 - Through WUE, students in western states may enroll at CSU Chico at a reduced fee level: 150 percent of the regular resident tuition. WUE tuition is considerably less than nonresident tuition. The CSU Chico CIM program already has three (3) students taking advantage of the WUE program and is working with the program administrators to increase awareness of the opportunity. WICHE states include: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming.
- CSU, Chico, Recruitment Office
 - 1. Recruitment materials regularly distributed via mail and recruitment visits to high schools and junior colleges

- Mathematics, Engineering, Science, Achievement (MESA) Program
 - 1. Recruitment materials regularly distributed via mail and recruitment visits to high schools and junior colleges
- Career Fairs
 - 1. Several CIM Patrons participated in CSU Chico Technical Career Fair. College of Engineering Career Fair planned for 2008

Student Educational Activities

- Tours of various Concrete Operations occur five or more times each semester
- Guest speakers participate often in all CIM classes and labs
- Patron meetings include student social and time to discuss internship and job opportunities
- Official Chico State student association: The Concrete Industry Management Student Society (CIMSS) has been formed and officers elected as pre-curser to application for Chico State ACI Student Chapter (Northern California Chapter of ACI has pledged sponsorship of the student chapter). Leadership of the ACI Student Chapter will be limited to CIM students with general membership open to all interested majors in the College.
- CIM student participation at industry conferences and other educational opportunities:
 - 1. Two CIM Students participated on Concrete Canoe Team for CSU Chico
 - 2. Five Students participated in concrete bunker investigation work in Normandy, France
 - 3. 16 students attended World of Concrete
 - 4. 12 students attended CONEXPO-CON/AGG and NRMCA Annual Convention
 - 5. Four students attended International Concrete Repair Institute Conference
 - 6. One student attended Women in Concrete Luncheon, World of Concrete

Involvement of the Patrons/Industry

The Chico State CIM program is privileged to have the support of an outstanding patron group led by a dedicated and enthusiastic Board of Directors. A list of the members follows.

<u>Corporate</u>					
Patron	<u>Title</u>	<u>Company</u>	Telephone	<u>email</u>	<u>Status</u>
Douglas K.	Vice President				
Guerrero	(retired)	CEMEX	530.342.0779	dkguerrero@aol.com	Chairman
	Regional Vice				Board
Brent Baty	President	CEMEX	916.941.2902	brent.baty@cemexusa.com	Member
		Teichert			Vice
Dana Davis	President	Materials	916.484.3342	ddavis@teichert.com	Chairman
		Teichert			
Catherine Mulhall	HR Director	Materials	916.480.5541	cmulhall@teichert.com	
Thomas R. Tietz	Executive Director	CNCPC	714.694.0800	tom.tietz@cncpc.org	Secretary
		Central			
Donald E.		Precast			
Humphrey	President	Concrete, Inc.	925.960.8763	Dhumphrey@us-concrete.com	Treasurer
		Shamrock		donomadi@shamrockmaterials.c	Board
Gene Ceccotti	President & CEO	Materials, Inc.	707.881.9000	om	Member
		Western			
		Ready Mix			Board
Jim Hill	President	Concrete, Inc.	530.865.0668	jhill@norcalbm.com	Member

		Valley Rock			
lim Lill	Draaidant	Products,		ikill@noroolbm.com	
JIM HIII	President	LLC Conco	530.865.0668	nill@norcalbm.com	See above
Steve Gonsalves	President	Companies	925.685.6799	s.com	Member
		Conco		jklinger@theconcocompanies.c0	
Jim Klinger		Companies	925.681.6630	<u>k</u>	
		Central			Poord
Bill Albanese	Vice President	Supply Co.	408.404.1047	balbanese@us-concrete.com	Member
					Board
Gene Martineau	President (retired)	US Concrete		eugenemartineau@comcast.net	Member
Michael Harlan	President & CEO	US Concrete		mharlan@us-concrete.com	
		Nevada			
log Sells	President	Cement	775 575 2281	isells@nevadacement.com	Board Member
	riesident	Nevada	113.313.2201	Sens enevadacement.com	Member
		Cement			
Rick Quinn	Technical Sales	Company	775.575.2281	rquinn@nevadacement.com	
				i	
		Lehigh			
Dill Doughton	Vice Dresident	Southwest	005 501 2606	http://www.alabiahaamant.com	Board
	vice President	Standard	925.521.3000	bbpigjtpm@ienigncement.com	Member
		Concrete			
Brian Serra	VP & GM	Products		Bserra@lehighcement.com	
		Calaveras			
Burt Gilpin	VP & GM	Materials, Inc.	559.277.7060	bgilpin@lehighcement.com	
Rob Wallace	Executive Director		016 052 0437	rob@cncnc.org	Board Member
	Executive Director	California	910.952.0457	<u>iobecpciic.org</u>	Member
	Sr. VP Materials	Portland			Board
Ron Summers	Div.	Cement	626.852.6254	rsummers@calportland.com	Member
		California			
Ed Owens	Sr. VP Human Recourses	Portland Cement	626 2852 2244	eowens@calportland.com	
Ed Owens	110001303	California	020.2052.2244		
		Portland			
Jim Repman	President	Cement		jrepman@calportland.com	
	Western Division	Vulcan			
Alan Wessel	President	Materials		wessela@vmcmall.com	Doord
Stephan Buol	Manager	(Vulcan)	916 682 0850	buols@vmcmail.com	Member
	managor	Propex	010100210000		
	Director North	Concrete			Board
Jeff Krupcale	America	Systems	423.553.2506	jeff.krupcale@propexinc.com	Member
Soott Dorring	Area Manager,	BASF	480 402 6010	a act a arrive @bacf.com	
	Northern CA	BASE	400.403.0910	scott.perfine@basi.com	
		Admixtures.			Board
Tarek Kahn		Inc	916.746.0025	tarek.khan@basf.com	Member
		BASF			
Mike Shudlowski	President & CEO	Admixtures,	216 830 7050	mike shydloski@bast.com	
INING OTYUIOWSKI	VP Concrete &	Granite Rock	210.039.7039	ITTIKE.STIYUIUSKI@DASI.CUIII	Board
Greg Diehl	BM	Company	831.768.2000	gdiehl@graniterock.com	Member
_		Nestech			
	CEO & Managing	Management			Board
Jeff Fortin	Director	Group	831.757.6378	Jett_Fortin@nestech.com	Ivlember

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Ryan Chance	Co-Owner	RC Ready Mix	925.449.7785	Ryanc@rcreadymixco.com	
		Mell Marshall			
Mel Marshall	President	Ind. Consultants		melmarshall@telus.net	
		Lehigh			
Dave Hummel	President	Hanson	858.715.5603	Dave.Hummel@hanson.biz	
Kim McCloud	President	Mitsubishi Cement	702.932.3900	kimmccloud@msn.com	Board Member
Patti Henley	President	Livingston Concrete Company		patti@livingstonsconcrete.com	Board Member
Frank Craddock	Executive VP	CEMEX	713.722.5823	frank.craddock@cemexusa.com	
Rich Epidendio	President	Rich Readimix Concrete, Inc.		Richreadimix@earthlink.net	
Nancy Larson	Executive Assistant	Top Grade Construction		Nlarson@TopGradeConstruction .com	
Carol Berry	Executive Director	California Precast Concrete Assoc.	916655.3050	cberry@ips.net	
Greg Odenthal	Business Development Manager	Knife River Corporation	209.933.6980	greg.odenthal@con-inc.com	Board Member
Dale Puskas	General Manager	Basalite	707.678.1901	dale.puskas@paccoast.com	
Dave Filipek	President	Right Away Ready Mix	510.536.1900		
Will Magill	Vice President	The Quikrete Companies	404.634.9100	wmagill@quikrete.com	
Michael C. Ragan	Vice President	Grace Construction Products	617.498.4969	michael.d.ragan@grace.com	
Peter Briggs	President	Briggs MFG.	530.934.2663	concrete@willows.net	
Miles Bennett	VP & General Manager	Utility Vault (Oldcastle Precast)	925.846.8183	miles.bennett@oldcastleprecast. com	Board Member
David W. Carter	Director - Employee Development	Utility Vault (Oldcastle Precast)	253.833.2777	dave.carter@oldcastleprecast.co m	

Departmental Status

Through the efforts of faculty and university staff, particularly that of Dr. Dirk Vanderloop, the Chancellor's Office has granted Pilot Program status for the CIM program at Chico State. The designation, which lasts for five years, began fall 2007 and will end May 2013. Pilot Program status affords the program certain advantages in program development but has no bearing on the ability of the program to pursue or obtain department status.

Department status is determined independently on the different CSU campuses pending a determination by the University of satisfactory self sufficiency, which is determined by number of students, tuition funding, resources, laboratories, research projects underway, and service to the community. Meeting additional criteria related to level of program rigor and recommendations from faculty and industry are necessary. Currently, with the third year of CIM instruction about to begin, the CIM program is making excellent progress toward meeting these criteria on a fast

track. With the dedicated support of the University administration at many levels, the faculty and patrons are confident that achieving the goal of Department if Concrete Industry Management is attainable in the near future.

Expenditure of National Steering Committee & Patron Funds

2007-08 Expenditure Year

Line Item	University	Patrons & Other Sources	NSC
Salaries and Benefits	24,000*	72,708	50,000
Equipment	106,545	103,276	20,000
Travel		6081	30,000
Operating		20,190	
Scholarship		35,600	
Student Support		7166	
Overhead		13,500	
Total	130,545	258,521	100,000

* Includes Dean's time (10%) plus minimal amount for clerical for left over Administrative Support.



Annual Institutional CIM Program Report 2007-2008

Executive Summary

The Concrete Industry Management (CIM) Program at Arizona State University is in its third year of development. At this time, there are three full time positions assigned to the program:

Luke M. Snell, Director Edwin Weaver, Senior Lecturer Andrea Roehre, Program Coordinator

The two freshman classes (Introduction to the Concrete Industry - 1 hour and Fundamentals of Concrete, Properties and Testing – 4 hours) and two sophomore classes (Concrete Construction Methods and Concrete Applications in Construction) are being offered each semester. Since Arizona State University has a large number of seniors and Graduate Students in the Del E. Webb School of Construction, the CIM program has developed a course for students interested in concrete who are presently Construction Management Majors, "Concrete Projects." This class will be taught by Luke Snell. This class will be taught on a regular basis and will hopefully show the university community and the students in the Del E. Webb School of Construction some of the interesting projects that the CIM program will be involved in.

One of the goals for FY2007 was to hire a full time lecturer. This was accomplished when the department hired Edwin Weaver as a Senior Lecturer. Mr. Weaver is a licensed professional engineer with many years of experience in the concrete construction contracting arena. The CIM program also has three Faculty Associates (part time faculty) who teach or assist in various CIM classes. During 2007-2008, the CIM program shared laboratory facilities with the Civil Engineering Department which assigns and administers the laboratory use. Through support and donations from local companies, the Del E. Webb School of Construction has just completed a new classroom and a concrete laboratory facility that we will start using in the fall of 2008. Additionally, the program acquired funding from the School of Engineering to purchase lab equipment for use in teaching and project efforts for our CIM students.

The president of Arizona State University, Michael Crow, has recognized the Del E. Webb School as one of the top programs in the nation and has challenged us to build a signature building for one of the "signature programs." Since the CIM program is considered one of the reasons the Del E. Webb School of Construction is a signature program; the new building is scheduled to have a top notch concrete laboratory. State government has included our building as part of the economic stimulus program, with the CIM Southwest Patrons Group giving a large donation in support of the concrete laboratory.

Arizona State University has several unique opportunities. It is located in one of the fastest growing areas of the country and has several major concrete companies within the Metro - Phoenix area. The CIM program has an opportunity to help educate future users of concrete within the Schools of Engineering, Design (Architecture), and Construction along with the CIM students.

Current CIM Enrollment

	Fall 2007	Spring 2008
Number of majors	6	14
	Students (SCH)	Students (SCH)
Introduction to Concrete (Freshmen)	24 (24)	18 (18)
Fundamentals of Concrete (Freshmen)	12 (48)	8 (32)
Concrete Construction Methods (Sophomore)	2 (6)	3 (9)
Concrete Construction Applications (Sophomore)		1 (3)
Concrete Projects (CIM 294)	7 (7)	
Concrete Projects (CIM 494)		22 (66)
Total	45 (85)	52 (128)
Total SCH for the year:	213	

In addition to CIM students, there were a number of students with a variety of majors who enrolled in the concrete related courses. Majors of these students included Construction Management, Engineering, Architecture, Communication, and Business.

There is not a formula used by the university to relate SCH to the number of faculty. The director of the CIM program must make a case for a new faculty based on funding levels, research output and needs of the program. The School of Construction and the College of Engineering may consider part time associates, moving classes to bigger classrooms, or limiting enrollment in a program rather than adding faculty.

Projected CIM Enrollments

Academic Year	<u>2008-09</u>	2009-10	<u>2010-11</u>
Majors	30	60	95
Students (SCH)	100 (300)	140 (400)	160 (500)

Professional Activity

Research

1. Masonry Posters and Power Points

This project is a result of a request from a Concrete Masonry supplier in Mongolia. The purpose of this research is to help train workers with language-free posters and/or power points on proper CMU Construction Techniques. Most of this research will be completed in the Concrete Projects course. (Funding Sources: Cemex, Salt River Materials, Quality Block, and Sutter Masonry). Completed Spring 2008

2. Hand Held Weather Stations

Plastic Shrinkage Cracks are a major problem in Concrete Construction. This research is to explore ways of getting proper field measurements of weather conditions. This information will be available to contractors and the Ready Mixed Concrete Companies, so that they can prevent plastic shrinkage cracks. (Funding Source: Kestrel) Completed Spring 2008

3. Concrete Kits for Kids/Seminars on Hoover Dam

This is a continuation of a project developed over fifteen (15) years ago. It provides Concrete Education for Grade School Students. Over 10,000 students have completed this project. The seminars are held at the World of Concrete, at the Hoover Dam, Hanley Wood paid for the expenses for the World of Concrete. (Funding Sources: Handley-Wood and W. R. Grace) Completed in January, 2008 and funded for 2009

4. Holiday Ornaments

To demonstrate that ornaments can be made of lightweight concrete. These ornaments will basically be holiday (Christmas) ornaments. (Funding Sources: Solomon Colors, Legacy Decorative and Forte Fibers) Completed Fall, 2007

5. Travel to Pakistan, for their Concrete Conference

To represent the USA, Concrete and Construction Education at a seminar designed to assist developing countries, especially in the Asia continent, in the prevention of plastic shrinkage cracks. (Funding Source: NSF) Completed Fall, 2007

Publications

"Acceptance of Concrete Test Results", Luke M. Snell, Concrete Knowledge Center, American Concrete Institute (ACI) Website, December, 2007

"Development of Construction and Concrete Industry Management Programs in the USA", Luke M. Snell, Proceedings, International Workshop on Cement Based Materials and Civil Infrastructure, Karachi, Pakistan, December, 2007

"Prevention of Plastic Shrinkage Cracks in Fresh Concrete ", Luke M. Snell Proceedings, International Conference on "Advances in Cement Based Materials and Applications in Civil Infrastructure (ACBM-ACI), Lahore, Pakistan, December, 2007

"On Tour: Hoover Dam", Luke M. Snell, Concrete Producer, April, 2008

Selected Landmark Papers in Concrete Materials CP249, Luke M. Snell et al (Editor), American Concrete Institute, March, 2008

"Safety Posters in Concrete and Masonry Construction", Snell and Hansen, Proceedings 7th Annual Mongolian Concrete Conference, May, 2008

\$4000

\$1000

\$2000

\$3000

\$4000

Presentations

"History of the Hoover Dam", Luke M. Snell, World of Concrete, January 2008

"Preventing and Troubleshooting Concrete Construction Problems", Luke M. Snell, Structural Engineers of Alabama, Birmingham, February, 2008

"Issues with Flatwork Concrete", Luke M. Snell, South Dakota Ready Mixed Concrete and Dakota Concrete Conferences, March 2008

"NDT of Concrete" Central Ohio Chapter, ACI, April 2007

"Troubleshooting Concrete Construction," eight (8) hour seminar, Luke Snell. ACI, Pittsburgh, Baltimore and Denver, May and June, 2008

CIM Faculty & Staff

A typical class at ASU is 3 - 4 semester hours (meets 3 - 4 hours per week). A tenured or tenure track faculty member would teach 2 classes per semester or 4 classes per year. These professors would be expected to have funded research and are thus given a teaching load so that they can develop a research program. The CIM program currently does not have tenured faculty. A non-tenure track position is required to teach six to eight (6-8) classes per year, direct student projects and work on assigned projects. Edwin Weaver, a non-tenured senior lecturer on a three year contract was hired in August, 2007.

CIM Faculty

2007-08 AY Edwin Weaver, Senior Lecturer, twenty (20) semester hours per year Luke Snell (Director of CIM) – four (4) semester hours per year

Adjunct used (2006-07 AY)

James Willson – eight (8) semester hours per year Jon Chastain – three (3) semester hours per year Clinton Wilkins – three (3) semester hours per year

Staff assigned to CIM - Percentage of time assigned to CIM

Luke Snell (Director of CIM) – 100% Edwin Weaver (Senior Lecturer) -100% Andrea Roehre (Program Manager) – 100% Arnab Ghosh (Graduate Student) – 10% Parameshwar Balsubhramian (Graduate Student) – 25% Jim Ernzen (Director of Del E. Webb School of Construction (DEWSC)) – 10% Matt Eicher (Intern Director) – 10% Sue Mueller (Academic Advisor DEWSC) – 10% Rachael Lugo (Accountant DEWSC) – 10% Brian Dyar (Business OP Manager) – 10% Laura Stoddard (Administrative Assistant) – 10% Kathy Myers (Secretary Administrative) – 10%

Program Support

Scholarships (current)

CIM related scholarships = Fall: 4, Spring: 9 DEWSC Scholarships = Fall: 0, Spring: 1 ASU scholarships = Various

Note: Over \$400,000 available to CIM students through the DEWSC.

Marketing Activities

• Created new marketing brochure; one page piece that is included in DEWSC booklet and can also be used separately.

- Maintained and improved website, continuing to update.
 - 1. Industry:
 - Tradeshows (International): World of Concrete
 - Local Events: Construction Career Days, Construction in Indian Country Conference
 - Development of women's mentoring and scholarship committee

*2008-09 Plans:

- Increased attendance at tradeshows
- Increased attendance at industry seminars and small events
- Attendance at national FFA Career Expo
- Give presentations and host open house for current industry employees interested in getting a degree

2. High Schools:

- Counselors:
 - a. Two (2) Educators Advisory Council for DEWSC (EABC) meetings per year
 - b. 'Lunch and Learn' sessions for Phoenix's East and West Valley Counselors
- Participated in Summer Programs for high school students:
 - a. Future Builders Academy (fifty-five (55) students)
- Member of Advisory Councils for CTE high schools for East Valley (EVIT) and West Valley (West MEC) of Phoenix (CTE formerly known as 'voc-tech' schools or programs)
- Partnered with higher level Math, Science, Pre-Engineering and CTE teachers for classroom presentation opportunities (thirty-five (35) class presentations to one thousand (1000) students)
- *2008-09 Plans:
 - Increased attendance at High School Career/Education Fairs
 - Hosting three (3) Banquets with campus tours for interested high school students
- 3. ASU:
 - Partner and work closely with Undergraduate Admissions Team.
 - Partner and work closely with University College (program for undeclared students); presented to three (3) UNI100 classes (120 students)
 - DEWSC Activities:
 - a. Welcome Back BBQ's (each semester after the start of classes)

(forty-five (45) prospective students and their parents)

b. Presentations to all CON101 classes

*2008-09 Plans:

- Continue presenting to CON 101 classes
- Invite DEWSC and other ASU students to all ASU-ACI events, utilize ASU-ACI students to help market the program
- Contact eligible students in other areas of campus to tell them about our opportunities

4. Community Colleges:

- Met with Academic Advisors and Counselors of the Maricopa Community Colleges
- Career Fairs

*2008-09 Plans:

- Continue attending transfer fairs (5 scheduled)
- Continue building relationships with advisors and professors, and presenting in construction courses

Student Educational Activities

- 1. The students are currently entering the ACI's Concrete Construction Competition
- 2. Students will enter the Concrete Strength Competitions and Design and Build Competitions in the future
- 3. Held classes at work sites (See under Involvement of Patrons/Industry below)

Involvement of Patrons/Industry

- Several companies have shown interest in internships; most CIM students are currently Freshmen and are not able to do internships until their Sophomore years. Two (2) mandatory internships are required and several companies have expressed interest in having CIM interns.
- 2. As part of the DEWSC, we had in 2006, 360 companies posting positions with one hundred companies coming on campus for interviews. About 80% of the companies would be interested in hiring CIM students for either internships and/or fulltime positions. Arizona has a huge concrete industry, with many Ready Mixed Concrete Companies, Material Suppliers, Concrete Contractors, and Construction Companies that self perform their concrete construction. The job market in Phoenix can now absorb all CIM graduates for at least the next five (5) years.
- 3. SW Patrons Group has two (2) active committees operating: Scholarship and Recruitment
- 4. Patron companies have participated in many of the events listed under Marketing (Construction Career Days, Construction Expo, Career Fairs, and field trips for bridge programs)

Hosted Classes at Worksites:

 CIM students have visited (in the fundamental classes) quarries and Ready Mixed Concrete companies; in the Methods class, students will visit Concrete Construction sites; and in the Concrete Projects class, the students will visit Concrete Masonry project sites. In the Introduction class, several guest lecturers from industry are invited as guest lecturers to show the size and the variety of employment opportunities which are in the Concrete Industry. Over ten (10) industry representatives have participated in this class each semester.

Department Status

Arizona State University will consider CIM as a separate department when the DEWSC is made into a college. We are currently in the College of Engineering. In the DEWSC, where there are five (5) separate programs, CIM is one of those programs. These programs support the CIM program, provide classes that our students take and are sharing research projects with the CIM program.

Currently, the provost has stated the DEWSC is too small to receive college status. Thus, the CIM Department status is contingent on the success of DEWSC in being able to achieve college status. Currently, there are about five hundred (500) students in DEWSC. It is the CIM Director's opinion, 1500+ students will be needed in the DEWSC before it will be considered for college status.

Expenditure of National Steering Committee & Patron Funds

	FY08 Actual
	Current Year
COSTS	
Faculty and Staff	\$307,000
Faculty Start Up	\$20,000
Scholarships	\$10,000
Travel Budget(Staff)	\$10,000
Travel (Students)	\$4,000
Total Costs	\$351,000

REVENUES	
Received from S.W. Patrons	\$200,000
Scholarships received from S.W. Patrons	\$10,000

NSF Grant Money from MTSU	\$13,000
Direct costs being provided by ASU	\$128,000
Indirect Costs being provided by ASU	\$150,000
Facility Costs provided by ASU-Industry (Classroom Laboratory Renovation)	\$200,000
Total Revenues	\$701,000



Annual Institutional CIM Program Report 2007-2008

Executive Summary

Texas State has had a very productive year in terms of preparatory activities that were aimed at initiating the fifth CIM program in the nation. The program proposal was prepared by the Department of Technology in Fall 2007. The proposal was approved by various internal constituencies such as the college council, university curriculum committee, faculty senate, council of academic deans and the university council. In January 2008, Dr. Heather Brown of MTSU who served as an external consultant, endorsed the proposal. The Texas State University Board of Regents approved the proposal in Summer 2008. The last step in the process is an approval by the Texas State Higher Coordinating Board. It is anticipated that this would be accomplished as soon as three program faculty members have been hired.

Professional Activities

<u>Research</u>

Dr. Jiong Hu served as Co-PI on a proposal submitted to Advanced Materials and Processes for \$50,001. The proposal was entitled "Weight Reduction Methodologies for Light Weight Concrete".

CIM Faculty & Staff

Dr. Jiong Hu was recruited from Iowa State University as the first faculty member of the CIM program. Jiong was serving as a post doctoral research associate with National Concrete Pavement Center and the Center for Portland Cement Concrete Pavement Technology at Iowa State until July 2008. His doctoral thesis was entitled "**Study of Aggregate Effects on Fresh Concrete Rheology.**" Searches are underway to recruit two other faculty members one of which will also serve as Program Director.

Program Support

Involvement of the Patrons/Industry

The Texas State Concrete Industry Management Patron's Board met on July 11, 2008 with over 30 industrial guests and three members of the National Steering Committee (NSC) attending. The meeting was held in Texas State University and conducted by Dr. Earl Ingram who is the Chair of the Patron Board. Dr. Denise Trauth, President, Dr. Perry Moore, Provost and Vice President for Academic Affairs, Dr. Hector Flores, Dean, College of Science and several faculty members from Texas State University were in attendance. Some of the items discussed include:

- Overview of CIM program goals and objectives by the members of the CIM NSC
- Update on Texas State University's CIM program status
- Summary of the analysis of the proposed CIM program at Texas State University by the external consultant, Dr. Heather Brown, Program Director, CIM, Middle Tennessee State University
- Fundraising for the CIM program
- Question and Answer session (which focused on student recruitment, internships and job opportunities)

The meeting revealed an overwhelming degree of support and enthusiasm by the Texas and national concrete industry for the proposed CIM program at Texas State.