



MISSOURI
S&T

CENTER FOR TRANSPORTATION INFRASTRUCTURE AND SAFETY



**American Concrete Institute
Fall 2008 Conference:
Sponsorship and Student Training**

by

Dr. John J. Myers, P.E., F.ACI, F.ASCE



**NUTC
ETT226**

**A National University Transportation Center
at Missouri University of Science and Technology**

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16. Abstract The national American Concrete Institute Fall Conference was held in St. Louis, Missouri on November 2nd – 6th, 2008. This educational and outreach activity provided sponsorship to the conference and provided an opportunity for Missouri S&T graduate students the ability to attend the national ACI conference. The ACI Convention provided the graduate students the opportunity to learn and give input on concrete industry codes, specifications, and guides undertaken in some of the 300+ committee meetings. It provided a forum for networking, learning the latest in concrete technology and practices. Additionally, there were over 35 technical and educational sessions open for the students to attend and gain valuable technical and educational information. The past conference of this series attracted over 1200 participants. This conference was also a viable venue to continue exposing our NUTC to the nation in the area of structural concrete and concrete materials.			
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NUTC Final Report

Project Title:

American Concrete Institute 2008 Fall Conference: Sponsorship and Student Training



Project Abstract:

The national American Concrete Institute Fall Conference was held in St. Louis, Missouri on November 2nd – 6th, 2008. This educational and outreach activity provided sponsorship to the conference and provided an opportunity for Missouri S&T graduate students the ability to attend the national ACI conference. The ACI Convention provided the graduate students the opportunity to learn and give input on concrete industry codes, specifications, and guides undertaken in some of the 300+ committee meetings. It provided a forum for networking, learning the latest in concrete technology and practices. Additionally, there were over 35 technical and educational sessions open for the students to attend and gain valuable technical and educational information. The past conference of this series attracted over 1200 participants. This conference was also a viable venue to continue exposing our NUTC to the nation in the area of structural concrete and concrete materials.

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Rolla, Missouri 65409

Date:

June 1, 2009



NUTC Sponsorship Summary

Student Involvement:

This education and outreach activity provided funding for graduate students to attend the ACI 2008 Fall Conference in St. Louis, Mo.

Project Objective:

The objective is twofold: a) to provide concrete related education and training for Missouri S&T graduate students working in the concrete field and, 2) to expose our NUTC to the nation in the area of structural concrete and concrete materials.

Anticipated Benefits:

Education and training for graduate students and greater visibility for our National University Transportation Center - Center for Transportation Infrastructure and Safety (CTIS).

Relationship to other Research/Projects:

Sponsor to ACI 2008 Fall Conference

Technology Transfer Activities:

This report has been prepared and submitted to the CTIS-NUTC summarizing the activities undertaken by the graduate students and the exposure brought to the CTIS-NUTC.

Transportation Research Board Keywords:

Concrete, Advanced Materials, Bridges, Education and Outreach.

Matching Research Agency:

Industrial Sponsorship.

NUTC Sponsorship Booth

The national American Concrete Institute Fall Conference, held in St. Louis, Missouri from November 2nd-6th, 2008 provided the opportunity for the Center for Transportation Infrastructure and Safety (CTIS) to expose the Missouri S&T NUTC to the nation's foremost experts on concrete structures, concrete materials and concrete systems. More than 1200 attendees participated. Fig. 1 illustrates the CTIS-NUTC Exhibition booth manned by CTIS-NUTC graduate students Mr. Kurt Bloch and Mr. Youske Tanizawa. In addition, the conference sponsorship provided the opportunity for CTIS-NUTC to receive exposure on all ACI conference literature and recognition stands throughout the conference venue as illustrated in Fig. 2.



Fig. 1: CTIS-NUTC Exhibition Booth



Convention Sponsors

The ACI Missouri Chapter wishes to thank the following organizations for their donations to make the ACI Fall 2008 Convention a success.

Mississippi River
Baker Concrete Construction, Inc.
Continental Cement Company
Holcim (US) Inc.
Vee-Jay Cement Contracting Co.

Missouri River
Center for Transportation Infrastructure and Safety
Lafarge

CTIS-NUTC

Fig. 2: CTIS-NUTC Exhibition Sponsorship Recognition

NUTC Student-Faculty-Alumni Networking Activity

The ACI conference provided the opportunity for students, faculty, former faculty, and alumni to attend a social function during the conference. Those in attendance representing the CTIS-NUTC Center included:

Faculty: Dr. John Myers, Dr. DJ Belarbi, Dr. Lesley Sneed, Dr. Jeffrey Volz, and Dr. Oh-Sung Kwon.

Graduate Student / Post Doc: Dr. Jared Brewe, Mr. Suriya Shanmugam, Mr. Carlos Ortego, Mr. Antonio Brancaccio, Mr. Charles Warner, Mr. Kurt Bloch, Mr. Youske Tanizawa, Mr. Wei Zheng, Mr. Fujian Tang, Mr. Dan Kienitz, Ms. Natalia Carey, Ms. Ying Huang, Dr. Sang-Wook Bae, and Dr. Dongming Yan.

Undergraduate Student and ACI Chapter Officer: Ms. Siham Belarbi

Figs. 3 and 4 illustrate representative images of the social and networking opportunity for the attendees.



Fig. 3: CTIS-NUTC Student-Faculty-Alumni Group Photo 1

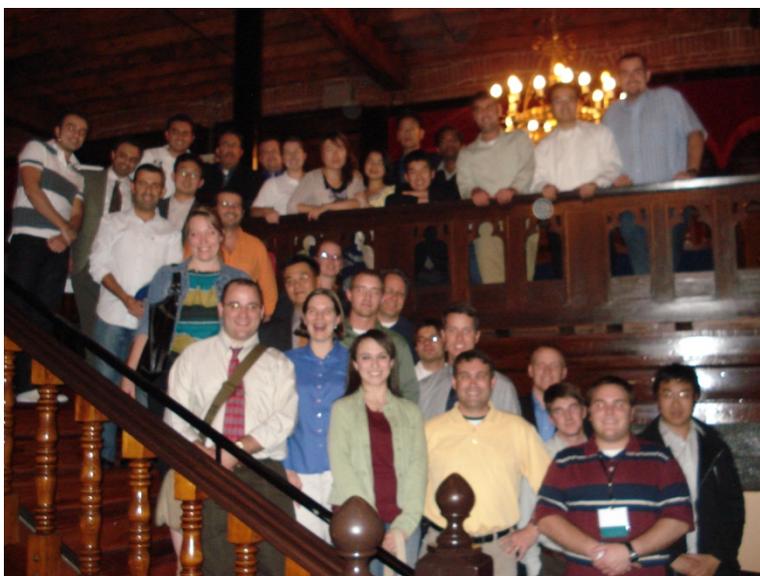


Fig. 4: CTIS-NUTC Student-Faculty-Alumni Group Photo 2

NUTC Graduate Student Education and Technical Committee Attendance

The ACI conference provided the opportunity for graduate students to attend ACI Technical Presentations, Technical and Educational ACI Committee Meetings as well as Outreach and Networking Activities. Table 1 presents a summary of the activities attended by the graduate students at the ACI Fall 2008 St. Louis Convention.

Table 1. Summary of Events Attended by Missouri S&T CTIS-NUTC Graduate Students

Graduate Student Name	ACI Technical Presentations	ACI Committee Meetings	Outreach and Networking Activities
Antonio Brancaccio	6	2	2
Kurt Bloch	20	1	2
Jared Brew	15	7	6
Natalia Carey	17	0	3
Ying Huang	22	6	1
Michael Murphy	8	2	2
Carlos Ortega	8	0	2
Suriya Shanmugam	14	2	2
Fujian Tang	9	1	2
Youske Tanizawa	6	5	2
Wei Zheng	13	0	3
Charles Warner	20	0	3
Total	158	26	30

In total, 158 Technical Presentations were attended, 26 Technical Committee Meetings and 30 Outreach and Networking Activities during the attendance period by the graduate students. This event provided the students the opportunity to expand their technical knowledge base of their educational classroom experience and also foster development in their technical topic selected for their research thesis or dissertation. All of the graduate students which attended from Missouri S&T's CTIS-NUTC were involved in undertaking technical research in the concrete field. Appendix A presents a detailed list of the activities attended by each of the Missouri S&T CTIS-NUTC Graduate Students.

APPENDIX A

Educational and Technical Data Sheet Profiles

- Presented in alphabetical order by Last Name

2008 American Concrete Institute (ACI) Fall Conference, St. Louis, Missouri

Project Title: American Concrete Institute 2008 Fall Conference: Student Training

Name: **Antonio Brancaccio, MS Graduate Student**

Technical Presentation Attendance List

Date	Session Name	Presentation
11-02-08	Opening Session	Hardy Cross Lecture Series
11-04-08	Recent Advances in Torsion Design of Structural Concrete	Torsion of Structural Concrete – A Historical Overview
11-04-08	Recent Advances in Torsion Design of Structural Concrete	Structural Behavior of Members Subject to Torsion
11-04-08	Recent Advances in Torsion Design of Structural Concrete	Advances in Analytical Modeling of Torsional Members
11-04-08	Recent Advances in Torsion Design of Structural Concrete	Members Subject to Combined Loadings Including Torsion
11-04-08	Recent Advances in Torsion Design of Structural Concrete	Behavior and Design of Precast L-Spandrel Beams
11-04-08	Recent Advances in Torsion Design of Structural Concrete	Detailing for Torsion in RC Members

Technical Committee Attendance List

Date	Time	Committee Number	Committee Name
11-02-08	3:30 pm – 5:00 pm	445-E	Shear and Torsion – SOA Torsion
11-04-08	1:00 pm – 4:00 pm	440	Fiber Reinforced Polymer Reinforcement

Outreach and Networking Event Activity

Date	Time	Location	Activity Description
11-03-08	12:00 pm – 1:00 pm	America's Center 221	Student Lunch
11-04-08	6:30 pm – 8:00 pm	R-Majestic	Concrete Mixer

2008 American Concrete Institute (ACI) Fall Conference, St. Louis, Missouri

Project Title: American Concrete Institute 2008 Fall Conference: Student Training

Name: Kurt Edward Bloch, MS Graduate Student

Technical Presentation Attendance List

Date	Session Name	Presentation
10-02-08	Concrete Bridge Design for Extreme Events	Methods for Determining Flotilla Impact Forces
10-02-08	Concrete Bridge Design for Extreme Events	New Mississippi River Bridge Project: Seismic Design
10-02-08	Uplifting Concrete in Museums, Churches, and Civic Architecture	Perret and Le Corbusier: A Dialogue in Reinforced Concrete
10-02-08	Uplifting Concrete in Museums, Churches, and Civic Architecture	Grace Cathedral—A Gothic Essay in Concrete
10-02-08	Uplifting Concrete in Museums, Churches, and Civic Architecture	Architecture as Art—Tadao Ando’s Pulitzer Foundation for the Arts
10-03-08	Recent Advancements in Concrete Technology in Taiwan	Innovative Construction Automation for High-Tech Facilities
10-03-08	Recent Advancements in Concrete Technology in Taiwan	Development and Applications of SCC in Taiwan
10-03-08	Recent Advancements in Concrete Technology in Taiwan	Earthquake Engineering Research on Reinforced Concrete Buildings in Taiwan
10-03-08	Recent Advancements in Concrete Technology in Taiwan	Recent Research on Concrete Bridges in Taiwan
10-03-08	Recent Advancements in Concrete Technology in Taiwan	Design and Construction on Taipei 101—The World’s Tallest Building
10-03-08	Recent Advancement in Concrete Technology in Taiwan	Design and Construction of Concrete Bridges and Viaducts for Taiwan High-Speed Rail Project
10-03-08	Evaluation of Existing Structures of Means of In-Situ Load Testing and Structural Monitoring	Evaluation of the Lateral Load-Resisting System of a Stadium Structure
10-03-08	Evaluation of Existing Structures of Means of In-Situ Load Testing and Structural Monitoring	An Italian Perspective of Load Testing of Concrete Structures: Case Studies
10-03-08	Evaluation of Existing Structures of Means of In-Situ Load Testing and Structural Monitoring	Direct Measurement of Girder Reactions in Bridge Load Tests
10-04-08	Industry Acceptance of SCC	The Current State of SCC Standardization
10-04-08	Industry Acceptance of SCC	Acceptance of SCC—DOT Perspective
10-04-08	Industry Acceptance of SCC	Acceptance of SCC—Engineer’s Perspective
10-04-08	Industry Acceptance of SCC	Acceptance of SCC—Contractor’s Perspective
10-04-08	Innovative Bridge Decks	Structural Response of Bridge Girders and Deck Systems with Advanced Materials under Field Load Testing
10-04-08	Industry Acceptance of SCC	Acceptance of SCC—Precast Producer Perspective

K. Bloch Continued

Technical Committee Attendance List

Date	Time	Committee Number	Committee Name
10-03-08	2p-3p	ACI 237	Self-Consolidating concrete

Outreach and Networking Event Activity

Date	Time	Location	Activity Description
10-02-08	1p-2p	Exhibition Hall	Missouri S&T CTIS-NUTC Booth
10-03-08	12p-2p	C-221	Student Lunch

2008 American Concrete Institute (ACI) Fall Conference, St. Louis, Missouri

Project Title: American Concrete Institute 2008 Fall Conference: Student Training

Name: **Jared Brewe, PhD Candidate**

Technical Presentation Attendance List

Date	Session Name	Presentation
11-02-08	Hot Topic Session	The Reconstruction of the 35W Bridge
11-03-08	Recent Advancements in Concrete Technology in Taiwan	Recent Research on Concrete Bridges in Taiwan
		Design and Construction of Taipei 101 – The World's Tallest Building
	ACI Student Fellowships and Young Member Initiatives	Fatigue Durability of Partially Post-Tensioned Concrete Members
	Accelerated Bridge Design and Construction	Experimental Seismic Testing of Precast U-Girder, Cast-in-Place Bent Cap Bridge Joints
	Use of Technology with Teaching	Motivating Freshman and Sophomores with Case Studies, Clickers and Demos
		Better than Blackboard: Teaching Engineering with Interactive Technology
		Classroom Performance Systems (Clickers) to Stimulate Student Participation in Large Classes
PowerPoint: Friend or Foe?		
11-04-08	Advances in the Fire Design of Concrete Structures	Experimental Studies on the Response of Restrained RC Beams Exposed to Design Fires
		Assessment of Fire-Affected Highway Structures after the MacArthur Maze Fire and Collapse and the I-5 Tunnel Fire in California
	Industry Acceptance of SCC	Acceptance of SCC – Engineer's Perspective
		Acceptance of SCC – Ready Mix Supplier Perspective
		Acceptance of SCC – Precast Producer Perspective
	Realistic Data for Realistic Expectations	Drying Shrinkage – Myth or Reality
	Recent Advances in Torsion Design of Structural Concrete	Behavior and Design of Precast L-Spandrel Beams

J. Brewe Continued

Technical Committee Attendance List

Date	Time	Committee Number	Committee Name
11-02-08	3p-4p	ACI 423/445	Adhoc Group on Shear in Prestressed Concrete
11-03-08	9a-11a	ACI 423	Prestressed
	1:30p-3p	ACI 237	Self-Consolidating Concrete
11-04-08	8:30a-10a	ACI 318	Building Code
	1p-3:30p	ACI 550	Precast Structures
	3:30p-4p	ACI 363-A	High-Strength – State-of-the-Art Report
11-05-08	8:30a-10:45a	ACI 363	High-Strength Concrete

Outreach and Networking Event Activity

Date	Time	Location	Activity Description
11-02-08	5p-6:30p	C-221 Ballroom	Opening Session and Hardy Cross Lecture Series
	6:30p-7:30p	Exhibition Hall	Missouri S&T CTIS-NUTC Booth
11-03-08	12p-1:30p	C-211 Ballroom	Student Lunch and Speaker
	6p-9p	Off Site	Missouri S&T Student and Alumni Dinner
11-04-08	5p-6p	Parkview Ballroom	Faculty Network Reception
	6:30p-9:30p	Majestic Ballroom	Concrete Mixer

2008 American Concrete Institute (ACI) Fall Conference, St. Louis, Missouri

Project Title: American Concrete Institute 2008 Fall Conference: Student Training

Name: Natalia Carey, PhD Candidate

Technical Presentation Attendance List

Date	Session Name	Presentation
11-02-08	Concrete Bridge Design for Extreme Events	Methods for Determining Flotilla Impact Forces on Bridge Piers
11-02-08	Concrete Bridge Design for Extreme Events	New Mississippi River Bridge Project: Seismic Design
11-02-08	Uplifting Concrete in Museums, Churches, and Civic Architecture	Perret and Le Corbusier: A Dialogue in Reinforced Concrete
11-02-08	Uplifting Concrete in Museums, Churches, and Civic Architecture	Grace Cathedral-A Gothic Essay in Concrete
11-03-08	ACI Student Fellowships and Young Member Initiatives	Earthquake-Resistant Design of Coupled Wall Systems Incorporating High-Performance Fiber-Reinforced Concrete
11-03-08	ACI Student Fellowships and Young Member Initiatives	The ACI Student Fellowship Program: Helping Students with Concrete Futures
11-03-08	ACI Student Fellowships and Young Member Initiatives	Blast Performance of Long Carbon Fiber-Reinforced Concrete
11-03-08	ACI Student Fellowships and Young Member Initiatives	The Physical and Chemical Characteristics of the Shell of Air-Entrained Bubbles in Cement Paste
11-03-08	ACI Student Fellowships and Young Member Initiatives	Optimization of Mass Concrete Bridge Construction
11-03-08	Recent Advancements in Concrete Technology in Taiwan	Design and Construction of Taipei 101-The World's Tallest Building
11-03-08	Recent Advancements in Concrete Technology in Taiwan	Design and Construction of Concrete Bridges and Viaducts for Taiwan High-Speed Rail Project
11-03-08	Accelerated Bridge Design and Construction	Rapid Construction of Modular Innovative Bridge Substructure
11-03-08	Accelerated Bridge Design and Construction	Rapid Bridge Replacement, Elk Creek Tunnel Bridges
11-03-08	Accelerated Bridge Design and Construction	Experimental Seismic Testing of Precast U-Girder, Cast-in-Place Bent Cap Bridge Joints
11-03-08	Accelerated Bridge Design and Construction	A Study of Precast Bridge Columns with Innovative Plastic Hinges with Built-In Elastomers
11-03-08	Accelerated Bridge Design and Construction	Fast Track Construction of Bridge Decks
11-03-08	Accelerated Bridge Design and Construction	Rehabilitation of the Reynosa-Pharr International Bridge

N. Carey Continued

Technical Committee Attendance List

Date	Time	Committee Number	Committee Name
None			

Outreach and Networking Event Activity

Date	Time	Location	Activity Description
11-02-06	1p-2p	Exhibition Hall	Student Concrete Cylinder Competition
11-02-08	4p-5p	Exhibition Hall	Missouri S&T CTIS-NUTC Booth
11-03-08	12p-2p	C-221	Student Lunch

2008 American Concrete Institute (ACI) Fall Conference, St. Louis, Missouri

Project Title: American Concrete Institute 2008 Fall Conference: Student Training

Name: Ying Huang, MS Graduate Student

Technical Presentation Attendance List

Date	Session Name	Presentation
11-02-08	Concrete Bridge Design for Extreme Events	Methods for Determining Flotilla Impact Forces on Bridge Piers
11-02-08	Concrete Bridge Design for Extreme Events	Durable and Economic Bridge Design for Extreme Events
11-02-08	Concrete Bridge Design for Extreme Events	New Mississippi River Bridge Project: Seismic Design
11-02-08	Concrete Bridge Design for Extreme Events	Concrete Bridge Design for Extreme Flood Effect 3
11-02-08	Concrete Bridge Design for Extreme Events	Fire-Resistant Design of Concrete Bridges
11-02-08	Concrete Bridge Design for Extreme Events	US 40/I 64 Seismic Retrofit: A Case Study in Retrofitting With Concrete
11-02-08	Concrete Bridge Design for Extreme Events	Blast-Resistant Bridges: Design and Detailing
11-03-08	Session Honoring Professor David Darwin, Part 1	Evaluation of Corrosion Testing Methods 1
11-03-08	Session Honoring Professor David Darwin, Part 1	Improving our Understanding and Ability to Measure the Potential for Corrosion of Reinforcing Bars in Reinforced Concrete
11-03-08	Session Honoring Professor David Darwin, Part 1	Bar Details, Bond Splitting, Delimitations, and Corrosion 11
11-03-08	Session Honoring Professor David Darwin, Part 1	Interaction of Cracking and Corrosion 11
11-03-08	Evaluation of Existing Structures by Means of In-Situ Load Testing and Structural Monitoring	Monitoring a Soil-Nail Wall—Not as Easy as it Looks on Paper
11-03-08	Evaluation of Existing Structures by Means of In-Situ Load Testing and Structural Monitoring	In-Situ Evaluation of Two Concrete Slab Systems
11-03-08	Evaluation of Existing Structures by Means of In-Situ Load Testing and Structural Monitoring	Load Testing a Historic Monument 3
11-03-08	Evaluation of Existing Structures by Means of In-Situ Load Testing and Structural Monitoring	Evaluation of the Lateral Load-Resisting System of a Stadium Structure
11-03-08	Session Honoring Professor David Darwin, Part 2	ACI 318 08 Provisions for Developing Reinforcement Using Headed Bars
11-03-08	Session Honoring Professor David Darwin, Part 2	Bond Strength of FRP Hooked Bars 4
11-04-08	Advances in the Fire Design of Concrete Structures	Codes, Loads, and Fire Endurance
11-04-08	Advances in the Fire Design of Concrete Structures	Performance of High-Strength Concrete in Fire
11-04-08	Advances in the Fire Design of Concrete Structures	Damage Mechanisms and Reparability of High-Strength Concrete Exposed to Elevated Temperatures
11-04-08	Advances in the Fire Design of Concrete Structures	Experimental Studies on the Response of Restrained RC Beams Exposed to Design Fires
11-04-08	Innovative Bridge Decks	Structural Response of Bridge Girders and Deck Systems with Advanced Materials under Field Load Testing

Huang Continued

Technical Committee Attendance List

Date	Time	Committee Number	Committee Name
11-02-08	2p-5p	ACI C-230	Concrete Bridge Design for Extreme Events
11-03-08	10a-12a	ACI C-230	Session Honoring Professor David Darwin, Part 1
11-03-08	2P-4P	ACI C-224	Evaluation of Existing Structures by Means of In-Situ Load Testing and Structural Monitoring
11-03-08	4P-5P	ACI C-230	Session Honoring Professor David Darwin, Part 2
11-04-08	9a-10a	ACI C-240	Advances in the Fire Design of Concrete Structures
11-04-08	10a-11a	ACI C-223	Innovative Bridge Decks

Outreach and Networking Event Activity

Date	Time	Location	Activity Description
11-03-08	08-10am	Exhibition Hall	Missouri S&T CTIS-NUTC Booth

2008 American Concrete Institute (ACI) Fall Conference, St. Louis, Missouri

Project Title: American Concrete Institute 2008 Fall Conference: Student Training

Name: **Michael Murphy, PhD Candidate**

Technical Presentation Attendance List

Date	Session Name	Presentation
11-02-08	Opening Session	Hardy Cross Lecture Series
11-04-08	Practical Use of Finite Element Analysis in the Design of Concrete Structures, Part 1	The Design of Outer Concrete Containments of LNG Tanks for Operation and Hazard Scenarios
11-04-08	Recent Advances in Torsion Design of Structural Concrete	Torsion of Structural Concrete – A Historical Overview
11-04-08	Recent Advances in Torsion Design of Structural Concrete	Structural Behavior of Members Subject to Torsion
11-04-08	Recent Advances in Torsion Design of Structural Concrete	Advances in Analytical Modeling of Torsional Members
11-04-08	Recent Advances in Torsion Design of Structural Concrete	Members Subject to Combined Loadings Including Torsion
11-04-08	Recent Advances in Torsion Design of Structural Concrete	Behavior and Design of Precast L-Spandrel Beams
11-04-08	Recent Advances in Torsion Design of Structural Concrete	Detailing for Torsion in RC Members

Technical Committee Attendance List

Date	Time	Committee Number	Committee Name
11-02-08	3:30 pm – 5:00 pm	445-E	Shear and Torsion – SOA Torsion
11-04-08	1:00 pm – 4:00 pm	440	Fiber Reinforced Polymer Reinforcement

Outreach and Networking Event Activity

Date	Time	Location	Activity Description
11-03-08	12:00 pm – 1:00 pm	America's Center 221	Student Lunch
11-04-08	6:30 pm – 8:00 pm	R-Majestic	Concrete Mixer

2008 American Concrete Institute (ACI) Fall Conference, St. Louis, Missouri

Project Title: American Concrete Institute 2008 Fall Conference: Student Training

Name: **Carlos Andres Ortega, PhD Candidate**

Technical Presentation Attendance List

Date	Session Name	Presentation
11-02-08	IPS-1 Update Summary and Applications for RC buildings	Application of IPS-1 to Regular RC Buildings
11-02-08	IPS-1 Update Summary and Applications for RC buildings	Design and Economic Evaluation of Example Building Designed Using IPS-1 and ACI 318-08
11-03-08	ACI Student Fellowships and Young Member Initiatives	The ACI Student Fellowship Program: Helping Students with Concrete Futures
11-03-08	ACI Student Fellowships and Young Member Initiatives	Blast Performance of Long Carbon Fiber-Reinforced Concrete
11-03-08	ACI Student Fellowships and Young Member Initiatives	The Physical and Chemical Characteristics of the Shell of Air-Entrained Bubbles in Cement Paste
11-03-08	ACI Student Fellowships and Young Member Initiatives	Optimization of Mass Concrete Bridge Construction
11-03-08	Recent Advancements in Concrete Technology in Taiwan	Design and Construction of Taipei 101 – The World’s Tallest Building
11-03-08	Recent Advancements in Concrete Technology in Taiwan	Design and Construction of Concrete Bridges and Viaducts for Taiwan High-Speed Rail Project

Technical Committee Attendance List

Date	Time	Committee Number	Committee Name
None			

Outreach and Networking Event Activity

Date	Time	Location	Activity Description
11-02-08	2p – 3p	Exhibition Hall	Missouri S&T CTIS-NUTC Booth
11-03-08	12p – 2p	America’s Center 221	Student Lunch

2008 American Concrete Institute (ACI) Fall Conference, St. Louis, Missouri

Project Title: American Concrete Institute 2008 Fall Conference: Student Training

Name: **Suriya Prakash Shanmugam, PhD Candidate**

Technical Presentation Attendance List

Date	Session Name	Presentation
10-02-08	Concrete Bridge Design for Extreme Events	Methods for determining Flotilla Impact Forces on Bridge Piers
10-02-08	Concrete Bridge Design for Extreme Events	New Mississippi river bridge project : Seismic Design
10-02-08	Concrete Bridge Design for Extreme Events	Blast-Resistant bridges: Design and detailing
10-03-08	Recent Advancements in concrete technology in Taiwan	Recent research on concrete bridges in Taiwan
10-03-08	Accelerated Bridge design and construction	A study of precast bridge columns with innovative plastic hinges with built in elastomers
10-04-08	Recent Advances in torsion design of structural concrete	Five decades of progress in torsion analysis and design of structural concrete
10-04-08	Recent Advances in torsion design of structural concrete	Torsion of structural concrete-a historical overview
10-04-08	Recent Advances in torsion design of structural concrete	Advances in analytical modeling of torsional members
10-04-08	Recent Advances in torsion design of structural concrete	Members subjected to combined loadings including torsion
10-05-08	Performance based seismic design of bridges	Non-linear modeling of bridge structures in California
10-05-08	Performance based seismic design of bridges	Seismic damage states for bridge columns and correlation with performance parameters
10-05-08	Performance based seismic design of bridges	Direct displacement based design as an alternative for seismic design of bridges
10-05-08	Performance based seismic design of bridges	Performance based design approach for RC circular bridge columns under combined loadings
10-05-08	Performance based seismic design of bridges	A manual for performance-based seismic retrofitting of highway bridges

Technical Committee Attendance List

Date	Time	Committee Number	Committee Name
10-02-08	8a-10a	ACI 341-D	Earthquake Resistance Design of Bridges- Performance Based Design
10-02-08	10a-11a	ACI 341-A	Earthquake Resistance Design of Bridges- Columns

Shanmugam Continued

Outreach and Networking Event Activity

Date	Time	Location	Activity Description
10-04-08	8a-9a	Exhibition Hall	Missouri S&T CTIS-NUTC Booth
10-05-08	6:30p-8p	Majestic Ballroom	Concrete Mixer

2008 American Concrete Institute (ACI) Fall Conference, St. Louis, Missouri

Project Title: American Concrete Institute 2008 Fall Conference: Student Training

Name: **Fujian Tang, PhD Candidate**

Technical Presentation Attendance List

Date	Session Name	Presentation
11-02-08	Emerging Technologies in Civil Infrastructure Applications	TAC Technology Transfer Committee: Its Role in Accelerating Technology Transfer
11-03-08	Session Honoring Professor David Darwin, Part 1	The Influence of Cracks on Durability
11-03-08	Session Honoring Professor David Darwin, Part 1	Construction of Low-Cracking Bridge Decks
11-03-08	Session Honoring Professor David Darwin, Part 1	Interaction of Cracking and Corrosion
11-03-08	Accelerated Bridge Design and Construction	Rapid Construction of Modular Innovative Bridge Substructure
11-03-08	Accelerated Bridge Design and Construction	Accelerated Design and Construction of the Russian River Bridge Replacement
11-03-08	Accelerated Bridge Design and Construction	A Study of Precast Bridge Columns with Innovative Plastic Hinges with Built-In Elastomers
11-04-08	Innovative Bridge Decks	Structural Response of Bridge Girders and Deck Systems with Advanced Materials under Field Loading Testing
11-04-08	Innovative Bridge Decks	Life Cycle Cost of RC Bridge Decks

Technical Committee Attendance List

Date	Time	Committee Number	Committee Name
11-04-08	8a-10a	ACI 201	Durability

Outreach and Networking Event Activity

Date	Time	Location	Activity Description
11-02-08	10a-11a	Exhibition Hall	Missouri S&T CTIS-NUTC Booth
11-03-08	12:00p-2p	C-221	Student Lunch

2008 American Concrete Institute (ACI) Fall Conference, St. Louis, Missouri

Project Title: American Concrete Institute 2008 Fall Conference: Student Training

Name: **Yosuke Tanizawa, MS Graduate Student**

Technical Presentation Attendance List

Date	Session Name	Presentation
11-02-08	Emerging Technologies in Civil Infrastructure Applications	Building Information Modeling (BIM): Issues and Obstacles
11-02-08	Hot Topic Session: Renewal of Bridge Infrastructure	Selecting Cost-Effective Security Mitigation Strategies for Highway Bridges
11-03-08	Evaluation of Existing Structures by Means of In-Situ Load Testing and Structural Monitoring	Direct measurement of Girder Reactions in Bridge Load Tests
11-04-08	Realistic Data for Realistic Expectations	Analysis of Variation in Drying Shrinkage Test Data Variability of Rapid Chloride Permeability Data Variability in Concrete Production Test Data

Technical Committee Attendance List

Date	Time	Committee Number	Committee Name
11-02-08	1:30p-2:30p	341-C	Equake Res Brdgs-Retrofit
11-03-08	8:30a-10a	374	Seismic Design
11-03-08	11:30a-12p	544-A	FRC-Production and Applications
11-03-08	2p-4p	232	Fly Ash and Natural Pozzolans
11-04-08	8:30a-9:30a	318	Building Code M1

Outreach and Networking Event Activity

Date	Time	Location	Activity Description
11-02-08	12p-1p	Exhibition Hall	Missouri S&T CTIS-NUTC Booth
11-03-08	12p-2p	C-221	Student Lunch

2008 American Concrete Institute (ACI) Fall Conference, St. Louis, Missouri

Project Title: American Concrete Institute 2008 Fall Conference: Student Training

Name: **Wei Zheng, PhD Candidate**

Technical Presentation Attendance List

Date	Session Name	Presentation
10-02-08	Concrete Bridge Design for Extreme Events	New Mississippi River Bridge Project: Seismic Design Concrete Bridge Design for Extreme Flood Effect 3
10-02-08	Emerging Technologies in Civil Infrastructure Applications	TAC Technology Transfer Committee: Its Role in Accelerating Technology Transfer
10-03-08	Session Honoring Professor David Darwin, Part1	Evaluation of Corrosion Testing Methods Improving our Understanding and Ability to Measure the Potential for Corrosion of Reinforcing Bars in Reinforced Concrete
10-03-08	Session Honoring Professor David Darwin, Part 2	Incorporating the Use of Fracture Mechanics in Modeling of Bond Behavior
10-03-08	Evaluation of Existing Structures by Means of In-Situ Load Testing and Structural Monitoring	Evaluation of the Lateral Load-Resisting System of a Stadium Structure
10-04-08	Innovative Bridge Decks	Structural Response of Bridge Girders and Deck Systems with Advanced Materials under Field Load Testing
10-04-08	Slag Cement Concrete Developments	The Effect of Ground Granulated Blast Furnace Slag (Slag Cement) on the Drying Shrinkage of Concrete-A Critical Review of Literature
10-04-08	Practical Use of Finite Element Analysis in the Design of Concrete Structures, Part 1	All Presentations (5)

Technical Committee Attendance List

Date	Time	Committee Number	Committee Name
None			

Zheng Continued

Outreach and Networking Event Activity

Date	Time	Location	Activity Description
10-02-08	1p-2p	Exhibition Hall	Student Concrete Cylinder Competition
10-03-08	4p-5p	Exhibition Hall	Missouri S&T CTIS-NUTC Booth
10-03-08	12p-2p	C 211	Student Lunch

2008 American Concrete Institute (ACI) Fall Conference, St. Louis, Missouri

Project Title: American Concrete Institute 2008 Fall Conference: Student Training

Name: **Charles R. Werner, MS Graduate Student**

Technical Presentation Attendance List

Date	Session Name	Presentation
11-02-08	Concrete Bridge Design for Extreme Events	Durable and Economic Bridge Design for Extreme Events New Mississippi River Bridge Project Seismic Design Concrete Bridge Design For Extreme Flood Effect Fire-Resistant Design of Concrete Bridges US 40/I-64 Seismic Retrofit: A Case Study in Retrofitting With Concrete
11-02-08	Hot Topic Session: Renewal of Bridge Infrastructure: Inspection Maintenance and Security Upgrades	Developments and Challenges in Highway Bridge Inspection Selecting Cost-Effective Security Mitigation Strategies for Highway Bridges
11-03-08	ACI Student Fellowship and Young Member Initiatives	Earthquake-Resistant Design of Coupled Wall Systems Incorporating High-Performance The ACI Student Fellowship Program: Helping Students with Concrete Futures Optimization of Mass Concrete Bridge Construction Blast Performance of Long Carbon Fiber-Reinforced Concrete Fatigue Durability of Partially Post-Tensioned Concrete Members
11-03-08	Session Honoring Professor David Darwin, Part 1	Improving our Understanding and Ability to Measure the Potential for Corrosion of Reinforcing Bars in Reinforced Concrete
11-03-08	Evaluation of Existing Structures by Means of In-Situ Load Testing and Structural Monitoring	Evaluation of the Lateral Load-Resisting System of a Stadium Structure An Italian Perspective of Load Testing of Concrete Structures: Case Studies Direct Measurement of Girder Reactions in Bridge Load Tests
11-04-08	Practical Use of Finite Element Analysis in the Design of Concrete Structures, Part 1	Snap Through of a Shallow Spherical Dome of a Prestressed Concrete Tank The Design of Outer Concrete Containments of LNG Tanks for Operation and Hazard Scenarios FE Modeling and Dynamic Analysis of Above-Ground Liquid Containing Tanks Design Moments Determination for Slabs and Walls for Prestressed Concrete Liquid Storage Tanks Using Finite Element Analysis

Werner Continued

Technical Committee Attendance List

Date	Time	Committee Number	Committee Name
None			

Outreach and Networking Event Activity

Date	Time	Location	Activity Description
11-02-08	11a -12a	America's Center C-105	Missouri S&T CTIS-NUTC Booth
11-02-08	12p -2:15p	America's Center C-105	Student Concrete Cylinder Competition
11-03-08	12p -2p	America's Center C-221	Student Lunch