



## AGENDA

### **TAC Specifications Committee** **Wednesday, March 18, 2009, 7 – 10 AM** **Room: TBD** **MARRIOTT RIVERCENTER** **San Antonio, Texas**

#### **Voting Members:**

David W. Johnston, Chair  
Miroslav F. Vejvoda, Interim Secretary  
(nonvoting)  
Jon B. Ardahl  
William L. Barringer  
Nicholas J. Carino  
Jeffrey W. Coleman

D. Gene Daniel  
Charles S. Hanskat  
Alfred L. Kaufman, Jr.  
W. Calvin McCall  
Aimee Pergalsky  
Arthur T. Weiss, Jr.

#### **Associate Members**

Karl J. Bakke  
James R. Baty  
Daniel P. Dorfmueller  
Dale Fisher  
Sidney Freedman

Terence C. Holland  
Kenneth G. Kazanis  
William H. Oliver, Jr.  
Michael S. Stenko

### **1. Call to Order and Introduction of Members and Visitors**

#### **1.1 Approval of Agenda**

ACTION: Does TSC approve the agenda for this meeting?

#### **1.2 Approval of Minutes**

ACTION: Does TSC approve the minutes of the 2008 fall meeting in St. Louis?

#### **1.3 Membership Report**

REPORT: Attachment 1.3 shows the current roster.

ACTION: Members are asked to review the roster and inform the Secretary of any corrections.

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## 2. *ACI Specification Manual (ASpM)*

### 2.1 2008 version of *ASpM*

The 2008 version of the *ASpM* is available on the ACI website at:  
<http://www.concrete.org/technical/technical.htm>

ACTION: No action is required.

### 2.2 Revisions to the 2008 *ASpM*

At the 2008 summer meeting, TAC decided to charge the *TCM* Task Group with the development of the *TCM* that would include the code and specification manuals. The chairs of TCC and TSC were added to the *TCM* Task Group to include the respective TAC subcommittees' input into the future *TCM* sections pertaining to their areas of activity.

A new punch list has been started for the revision of the *ASpM* or the specification module of a new *TCM*. Attachment 2.2 shows the punch list.

ACTION: Are there any additional items for the punch list?

## 3. Status of Specification Activities

### 3.1 Updates

BACKGROUND: TSC members are assigned as liaisons to ACI committees known to be working on or planning to work on a specification. Committee members are appointed as associate members of TSC (unless the TSC liaison is also a member of the committee). Attachment 3.1 summarized ACI specification activities and current membership assignments.

Committee 117: Liaison Charles Hanskat. Associate Member Eldon Tipping.  
Committee ITG-7: Liaison Charles Hanskat. Associate Member Eldon Tipping.  
Committee 301: Liaison Jon Ardahl.  
Committee 303: Liaison Alfred Kaufman. Associate Member Dan Dorfmueller.  
Committee 304: Liaison Nick Carino. Associate Member Terry Holland.  
Committee 305: Liaison Gene Daniel.  
Committee 306: Liaison Gene Daniel.  
Committee 308: Liaison Aimee Pergalsky.  
Committee 311: Liaison Alfred Kaufman.  
Committee 330: Liaison Art Weiss. Associate Member Ken Kazanis.  
Committee 336: Liaison Art Weiss. Associate Member Billy Oliver.  
Committee 346: Liaison Alfred Kaufman.  
Committee 347: Request for a specification pending.  
Committee 350: Liaison Jon Ardahl.  
Committee 423: Liaison Charles Hanskat. Associate Member: TBD.  
Committee 440: Liaison Nick Carino.  
Committee 503: Liaison Charles Hanskat.  
Committee 506: Liaison Jon Ardahl.  
Committee 522: Liaison Aimee Pergalsky. Associate Member Dale Fisher.

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Committee 533: Liaison Art Weiss. Associate Member Sidney Freedman.  
Committee 548: Liaison Art Weiss. Associate Member Mike Stenko.  
Committee 551: Liaison Alfred Kaufman. Associate Member Jim Baty.

The procedures for obtaining approval to start writing specifications, for committee liaisons, and for final approvals of specifications are in Section 3.2.1.2 of the *2008 TCM*, and in Section 1.3 of the *2008 ASpM*.

**ACTION:** TSC Liaison and Associate Members are asked to report their respective committees' activities and discuss any actions required of TSC.

#### **4. Specification Review**

##### **4.1 Current Review Activity**

**BACKGROUND:** Section 1.3 of the *ASpM* explains the TSC review process for ACI specifications. The intent is for TSC to review new and revised specifications.

ACI 548: Committee 548 submitted a new document for TAC review at the 2009 summer meeting in Myrtle Beach, "Specification for Type (MMS) Methyl Methacrylate Slurry Polymer Overlays for Bridge and Parking Garage Decks". TSC has not approved drafting of this specification and it set up a review group with David Johnston and Charles Hanskat as members.

**ACTION:** Is any action required?

##### **4.2 Revised Review Procedures**

Considering the new *TCM* and *ASpM* procedures for reviews of submitted specification to be parallel with the TAC review, the informal monitoring of specifications in development is very important. Depending on the complexity of the specification, the TSC review group may need to be created in advance. The development needs to be followed up through the liaison who may suggest the early creation of the RG.

The associate membership of TSC will be checked to ensure all liaison members are in place.

**ACTION:** Are any changes to the liaison membership required?

#### **5. Requests for New Specifications**

**ACTION:** Are there any new specification requests?

#### **6. Planning**

##### **6.1 TSC Mission (For Information)**

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The TSC mission is: “Assist the technical committees in preparing and maintaining specifications in the correct format and language, and manage specification development by the Institute.”

ACTION: Is any action required?

## **6.2 Goals for 2009**

Chair Johnston posted the following TSC goals on the website:

- 1) Review committee requests to develop new specifications and make recommendations to TAC.
- 2) Coordinate specifications that overlap ACI code-dependent specifications such as ACI 301.
- 3) Maintain database of ACI specifications.
- 4) Assist TCM Task Group in developing chapters on specification writing and maintain punch list of needed revisions;
- 5) Review new and revised specifications as requested by TAC.

REPORT: At the 2008 summer meeting, TAC adjusted Goals 4 and 5; they have been further modified to correspond with the 2008 *TCM*.

ACTION: No action is required.

## **7.0 ACI Specification Policy**

### **7.1 e-Specifications**

ACI staff, TSC, and ACI 301 Chair McCall have been discussing the idea of preparing an “active” electronic specification that can be tailored to a specific project and included directly in the project specifications. Action on this item is tabled until additional direction is provided by ACI.

A Task Group (TG-7.1) (Ardahl, Hanskat, and Weiss) is in place to advise staff and to review the e-specification draft.

REPORT: There is no new development as staff is charged with other institute activities.

ACTION: Is any action required?

## **8. Training on Specification Writing**

TSC members conducted a technical session at the spring 2007 convention in Atlanta. It was very successful and generated a lot of interest, although the attendance was not high.

It is intended to repeat specification training sessions every 2 to 3 years. Besides announcements at the TAC chair breakfast, additional effort in communicating with potential attendees is desirable. Another session would be beneficial after the first ACI Guide Specification is published and the new TCM format is implemented.

ACTION: Is any action required?

**9. Next Meeting**

TSC meetings are held on Wednesdays, 7 – 10 am during ACI Conventions.

ACTION: Is any action required?

**10. Adjournment**

ATTACHMENTS:

Attachment 1.3 — TSC Roster with Contact and Assignment Information

Attachment 2.2 — ACI Specification Module of *TCM* – Punch List

Attachment 3.1 — ACI Specifications Activity Database

COPIES:

TSC Members

ACI TAC members

ACI Engineering staff

**Attachment 1.3  
 TSC Roster with Contact and Assignment Information**

October 2007			
Name	Assignment	Telephone No.	E-Mail Address
<b>TSC Officers and TAC Contacts</b>			
David Johnston	Chair and TAC Contact RG-548.	919/515-7412	<a href="mailto:johnston@eos.ncsu.edu">johnston@eos.ncsu.edu</a>
Miroslav Vejvoda	Interim Secretary TSC (NV)	248/848-3713	<a href="mailto:miroslav.vejvoda@concrete.org">miroslav.vejvoda@concrete.org</a>
David Sanders	Chair TAC	775/784-4288	<a href="mailto:sanders@unr.edu">sanders@unr.edu</a>
Daniel W. Falconer	Secretary TAC	248/848-3726	<a href="mailto:daniel.falconer@concrete.org">daniel.falconer@concrete.org</a>
<b>Voting Members</b>			
Jon B. Ardahl	301, 350, 506, TG-2.2, TG-7.1.	785/887-9991	<a href="mailto:ard00097@netzero.net">ard00097@netzero.net</a>
William L. Barringer		505/293-8368	<a href="mailto:joy2Bill@aol.com">joy2Bill@aol.com</a>
Nicholas J. Carino	304, 440, TG-2.2 Chair.	301/975-6063	<a href="mailto:ncarino@nist.gov">ncarino@nist.gov</a>
Jeffrey W. Coleman		952/841-0200	<a href="mailto:jwcoleman@chvv.com">jwcoleman@chvv.com</a>
D. Gene Daniel	305, 306, 423	479/636-1856	<a href="mailto:dgenedinc@aol.com">dgenedinc@aol.com</a> *
Charles S. Hanskat	117, 423, 503, TG-7.1, RG-548.	847/972-3146	<a href="mailto:chanskat@ctlgroup.com">chanskat@ctlgroup.com</a>
Alfred L. Kaufman, Jr.	303, 346, 551	925/866-2780	<a href="mailto:alfredl.kaufman@cemex.com">alfredl.kaufman@cemex.com</a>
W. Calvin McCall	TG-2.2	704/392-1506	<a href="mailto:wcmccall@concretees.com">wcmccall@concretees.com</a>
Aimee Pergalsky	308, 522	216/491-9265	<a href="mailto:geoaimee@aol.com">geoaimee@aol.com</a>
Arthur T. Weiss, Jr.	330, 336, 533, 548, TG-7.1.	770/860-1942	<a href="mailto:aweiss7501@aol.com">aweiss7501@aol.com</a>
<b>Associate Members</b>			
Karl J. Bakke	117	303/674-2290	<a href="mailto:karl.bakke@kalmanfloor.com">karl.bakke@kalmanfloor.com</a>
James R. Baty	551	319/895-6911	<a href="mailto:jbaty@cfawalls.org">jbaty@cfawalls.org</a>
Daniel P. Dorfmueller	303	513/933-0489	<a href="mailto:dorf@go-concepts.com">dorf@go-concepts.com</a>
Dale Fisher	522	770/619-9962	<a href="mailto:dalefisher@pervious.com">dalefisher@pervious.com</a>
Sidney Freedman	533	312/786-0300	<a href="mailto:sfreedman@pci.org">sfreedman@pci.org</a>
Terence Holland	304	440/834-1697	<a href="mailto:concrete.terry@att.net">concrete.terry@att.net</a>
Kenneth G. Kazanis	330	248/354-9050	<a href="mailto:ken.kazanis@lafarge-na.com">ken.kazanis@lafarge-na.com</a>
William H. Oliver, Jr.	336	713/207-4379	<a href="mailto:billy.oliver@centerpointenergy.com">billy.oliver@centerpointenergy.com</a>
Michael S. Stenko	548	914/636-1000	<a href="mailto:mstenko@transpo.com">mstenko@transpo.com</a>

\*Text e-mail messages only; mail hard copies of any attached files

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**Attachment 2.2**  
**ACI Specification Module of TCM – Punch List**

<b>Section</b>	<b>Item</b>	<b>Recommendation</b>
3.4.2	Mandatory Requirements Checklist	A “trigger” language is recommended in the text to point to a Mandatory Requirements Checklist item: “...as specified in Contract Documents”.
3.4.3	Optional Requirements Checklist	A “trigger” language already exists in the text to point to an Optional Requirements Checklist item: “...unless otherwise specified”.
3.4.4	Submittals Checklist	A “trigger” language already exists in the text to point to a Submittals Checklist item: “Submit...”.
5.3.5	Section 5.3.5 discourages the use of “Approved” and recommends “Accepted” or “Reviewed” instead.	This was found in order and no change to this provision is recommended. The term approved would take responsibility away from the contractor and shift it to the Architect/Engineer. The other two terms do not relieve the contractor from his responsibility.

**Attachment 3.1  
 ACI SPECIFICATIONS ACTIVITY DATABASE**

<b>Comm. No.</b>	<b>Title</b>	<b>Specification</b>	<b>Number / Status</b>	<b>Comment/ Action</b>	<b>TSC Liaison</b>	<b>Nonvoting TSC Members</b>
117	Tolerances	Standard Specifications for Tolerances for Concrete Construction and Materials	117-06	The committee responded to TAC comments; the document was sent to 301 for their review and reference in the new 301.	Hanskat	Bakke
ITG-7	Specification for Tolerances for Precast Concrete	Specification for Tolerances for Precast Concrete	ACI ITG 7-XX	Public review closed on 12/17/08. Committee is responding to comments. Document was sent to 301 for their reference in new 301.	Hanskat	Ardahl
301	Specifications for Concrete	Specifications for Structural Concrete	301-08 in preparation	Submitted to TAC before the 2009 spring convention in San Antonio.	Ardahl (M)*	Not needed
303	Architectural CIP Concrete	Standard Specification for Cast-in-Place Architectural Concrete	303.1-97	Information in spec getting rolled into ACI 301. Will be a new section 6 of ACI 301.	Kaufman	Dorfmueller
304	Measuring, Mixing, Transporting, and Placing Concrete	Guide <a href="#">to Writing a</a> Specification for Underwater Concrete	In preparation	At 2008 fall meeting in St. Louis, the committee changed document from Guide Specification to Guide to Writing a Specification. This was in an effort to address TSC comments.	Carino	Holland
305	Hot Weather Concreting	Specification for Hot Weather Concreting	ACI 305.1-06	Published in 2007.	Daniel	Not needed
306	Cold Weather Concreting	Standard Specification for Cold Weather Concreting	306.1-90 (R-98)	No action on Spec. Working on report first.	Daniel	Not needed



<b>Comm. No.</b>	<b>Title</b>	<b>Specification</b>	<b>Number / Status</b>	<b>Comment/ Action</b>	<b>TSC Liaison</b>	<b>Nonvoting TSC Members</b>
308	Curing Concrete	Standard Specification for Curing Concrete	308.1-98	TAC approved at 2007 spring meeting in Atlanta. Responses expected before 2009 spring meeting in San Antonio.	Pergalsky (M)*	Not needed
311	Inspection of Concrete	Specification for Ready-Mixed Concrete Testing Services	311.X-XX	Public review closed on 9/17/08.	Kaufman	
330	Concrete Parking Lots and Site Paving	Standard Specification for Plain Concrete Parking Lots	330.1-03	Change it to for pavements of 8 in. or less and write a heavy duty parking lot spec – discussing. It will have to be reapproved in two years.	Weiss	Kazanis
336	Footings, Mats, and Drilled Piers	Specification for the Construction of Drilled Piers	336.1-01	Committee balloting guide and are resolving negatives. Once finished it will be easier to revise spec. Spec is mostly commentary, it will take significant effort to rewrite it. This specification will be changed into a guide specification as it is very site specific.	Weiss	Oliver
346	CIP Pipe	Specification for Cast-in-Place Concrete Pipe	346-01	Open for public review from 3/1/09 to 4/17/09.	Kaufman (M)*	Not needed
347	Formwork for Concrete	Formwork Specification	New, in preparation	Committee is working on request to TSC to write a specification.		
350	Environmental Structures	Specification for Environmental Engineering Concrete Structures	In preparation	TSC review was done by Carino and Bill Barringer. Will go to TAC	Ardahl (M)*	Not needed

<b>Comm. No.</b>	<b>Title</b>	<b>Specification</b>	<b>Number / Status</b>	<b>Comment/ Action</b>	<b>TSC Liaison</b>	<b>Nonvoting TSC Members</b>
				in 2009.		
423	Prestressed Concrete	Specification for Unbonded Single-Strand Tendon Materials and Commentary	423.7-07	Published in 2007.	Hanskat	423 chair (Andrea Schokker) to appoint TSC rep.
423	Prestressed Concrete	Specification for Installation of Unbonded Single-Strand Tendons and Commentary	423.8	Committee is still working on it.	Hanskat	423 chair (Andrea Schokker) to appoint TSC rep.
423	Prestressed Concrete	Test Method for Bleed Stability of Cementitious Post-Tensioning Tendon Grout	423.X	Open for public review from 2/1/09 to 3/17/09.		
440	Fiber Reinforced Polymer Reinforcement	Specification for Carbon and Glass Fiber Reinforced Polymer (FRP) Bars for Concrete Reinforcement	440.Y-XX In public review	Published in 2008.	Carino	
440	Fiber Reinforced Polymer Reinforcement	Specification for Construction with Fiber Reinforced Polymer (FRP) Reinforcing Bars and Their Supports	440.X-XX In public review	Published in 2008.	Carino	
503	Adhesives in Concrete	Standard Specification for Bonding Concrete, Steel, Brick and Other Materials to Hardened Concrete with a Multi-	503.1-92 R97, 03	Format revision overdue. TSC is recommending removal from the MCP. Committee intends to revise it per minutes from LA.	Hanskat	

<b>Comm. No.</b>	<b>Title</b>	<b>Specification</b>	<b>Number / Status</b>	<b>Comment/ Action</b>	<b>TSC Liaison</b>	<b>Nonvoting TSC Members</b>
		Component Epoxy Adhesive				
503	Adhesives in Concrete	Standard Specification for Bonding Plastic Concrete to Hardened Concrete with a Multi-Component Epoxy Adhesive	503.2-92 R-97, 03	Format revision overdue. TSC is recommending removal from the MCP. Committee intends to revise it per minutes from LA.	Hanskat	
503	Adhesives in Concrete	Standard Specification for Producing a Skid Resistant Surface on Concrete by the Use of a Multi-Component Epoxy System	503.3-92 R97, 03	Responding to TAC comments. Public review probably in 2009.	Hanskat	
503	Adhesives in Concrete	Standard Specification for Repairing Concrete with Epoxy Mortars	503.4-92 R97, 03	Format revision overdue. TSC is recommending removal from the MCP. Committee intends to revise it per minutes from LA.	Hanskat	
503	Adhesives in Concrete	Specification for Crack Repair by Epoxy Injection	503.7-07	Published in 2007.	Hanskat	
506	Shotcreting	Specifications for Shotcrete	506.2-95	Revising. There are problems with major negatives and with the commentary. Will take some time to finish.	Ardahl (M)*	Not needed
522	Pervious Concrete	Specification for Pervious Concrete Pavement	522.1-08	Published in 2008.	Pergalsky	Fisher
533	Precast Panels	Proposed Specification on Precast Panels		Will be folded into ACI 301.	Weiss	Freedman

<b>Comm. No.</b>	<b>Title</b>	<b>Specification</b>	<b>Number / Status</b>	<b>Comment/ Action</b>	<b>TSC Liaison</b>	<b>Nonvoting TSC Members</b>
548	Polymers in Concrete	Specifications for Latex Modified Concrete (LMC) Overlays	548.4-93 R98	Revision submitted to TAC for review for 2009 spring meeting in San Antonio.	Weiss	Stenko
548	Polymers in Concrete	Specification for Type EM (Epoxy Multi-Layer) Polymer Overlay for Bridge and Parking Garage Decks	548.8-07	Published in 2007.	Weiss	Stenko
548	Polymers in Concrete	Specification for Type ES (Epoxy Slurry) Polymer Overlay for Bridge and Parking Garage Decks	548.9-08	Published in 2008.	Weiss	Stenko
548	Polymers in Concrete	Specification for Type (MMS) Methyl Methacrylate Slurry Polymer Overlays for Bridge and Parking Garage Decks	548.X	Submitted to TAC review for 2009 summer meeting in Myrtle Beach. Sent to TSC for review.	Weiss	
548	Polymers in Concrete	Specification for Polymer Concrete and Composite Underground Utility Enclosures	Request to write a new spec.	TAC did <u>not</u> approve 548 to write a material specification at their 2008 fall meeting in St. Louis.	Weiss	Stenko
551	Tilt-Up Construction	Specification on Tilt-Up Construction		Being rolled into 301.	Kaufman	Baty
563	Specifications for Repair of Structural Concrete in Buildings	Specification for Repair of Existing Structural Concrete		Committee is starting work on a specification to go with the 562 code requirements document.		

\*(M) indicates that the TSC liaison is also a member of the committee and an associate member from that committee is not necessary.

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Future Attachments