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## **AGENDA**

### **TAC Specifications Committee**

Wednesday November 8, 2006

7:00 to 10:00 AM

Directors E, Adam's Mark

Denver, CO

#### **Voting Members:**

David Johnston, Chair  
Todd R. Watson, Secretary (nonvoting)  
Jon B. Ardahl  
William L. Barringer  
William C. Bretnall  
Nicholas J. Carino

Jeffrey W. Coleman  
D. Gene Daniel  
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 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 spring fall 2006 meeting in Charlotte, NC?

#### **1.3 Membership Report**

**REPORT:** Attachment 1.3 shows the current roster. Members are asked to review the roster and inform Secretary Watson of any corrections.

Due to other commitments, Tony Murray has resigned from TSC. Murray was the TSC liaison to committees 117 and 503.

**ACTION:** TSC is asked to appoint new liaison members to committees 117 and 503.

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

### 2.1 **2005 version of ASpM**

The 2005 version of the *ASpM* is available on the ACI website at:  
[http://www.concrete.org/COMMITTEES/com\\_forms.htm](http://www.concrete.org/COMMITTEES/com_forms.htm).

**ACTION:** No action is required.

### 2.2 **Punch list**

The current punch list of proposed changes to the 2005 version of the *ASpM* is shown in Attachment 2.2.

**ACTION:** Is any action required?

### 2.3 **Metrication**

At the spring meeting in Charlotte, TSC discussed the ACI policy on SI units. The current policy requires dual units in all ACI documents (except for Codes and Specifications that are published in separate volumes with TAC approval). TSC members feel that having dual units in the same document could raise problems in the use of ACI reference specifications.

**REPORT:** TSC's opinion was forwarded to TAC and TAC is recommending to the Board of Direction in Denver that the metrication policy be revised so specifications be required to be published in separate versions.

**ACTION:** Is any action required?

### 2.4 **Materials Specifications**

At the spring meeting in Charlotte, TSC noted that TAC had added wording to the *ACI Technical Committee Manual* allowing for ACI to publish materials specifications. TSC sent a query to TAC regarding whether TSC should be required to review materials specifications. TAC agreed that TSC should have such responsibility. At the time of writing of this agenda, TAC was balloting changes to the *TCM*:

#### **3.2.1.4 – Test Methods and Materials Specifications**

*Revise 4th paragraph:* “A technical committee proposing to develop a test method or a materials specification must obtain TAC approval before beginning work on the document. The proposal shall indicate the scope of the test method, why it is needed, and a statement that ASTM is aware of this proposed activity and is not preparing a similar standard. The TAC Specifications Committee will review the proposal and make a recommendation to TAC. As detailed in the ACI Specification Manual, a liaison with TSC will be established once TAC approval is obtained, and TSC will review draft specifications as they are balloted to ensure the proper format is being followed.”

**ACTION:** TSC needs to develop wording for the *ASpM*.

#### 2.4.1 ACI 423.6 Material Specification

At their July 2006 meeting, TAC approved “Material Specification for Unbonded Single-Strand Tendons and Commentary (ACI 423.6).” Committee 423 plans to complete the document in Denver so that it can be referenced by ACI 318-08. The current draft follows the *ASpM*, however, including mandatory items such as the preface, which is not entirely applicable to a material specification.

**ACTION:** Can the committee revise the preface as needed, or does TSC wish to provide wording to the committee?

### 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 summarizes ACI specification activities and current membership assignments.

**REPORT:** TSC Liaison and Associate Members are asked to report their respective committees’ activities, update Attachment 3.1, and discuss any actions required of TSC.

Committee 117: Liaison NEEDED. Associate Member Karl Bakke.  
Committee 301: Liaison Jon Ardahl.  
Committee 303: Liaison Alfred Kaufman. Associate Member Dan Dorfmueller.  
Committee 304: Liaison Art Weiss. Associate Member Terry Holland.  
Committee 305: Liaison Gene Daniel.  
Committee 306: Liaison Gene Daniel.  
Committee 308: Liaison Aimee Pergalsky.  
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 Gene Daniel. Associate Member: TBD.  
Committee 503: Liaison NEEDED.  
Committee 506: Liaison Jon Ardahl.  
Committee 522: Liaison Aimee Pergalsky. Associate Member Dale Fisher.  
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.

#### 4. Specification Review

**Background:** Section 1.3.3 of the *ASpM* explains the TSC review process for ACI specifications. The intent is for TSC to review new and revised documents when they are being balloted by the committees. ACI staff has been made aware of all specification-writing committees so that TSC reviews will be triggered when documents are being balloted.

**Report:** No new ACI specifications have been balloted since the last meeting. From Sept. 27 to Oct. 25, 2006, ACI Committee 308 balloted a previously TSC reviewed draft of “Specification for Curing Concrete (ACI 308.1).” Aimee Pergalsky is the TSC liaison to that committee and an associate member of the committee, and is asked to report.

From April 20 to May 20, 2006, ACI Committee 548 balloted a previously TSC reviewed draft of “Specification for Type EM (Epoxy Multi-Layer) Polymer Overlay for Bridge and Parking Garage Decks (ACI 548.YR).” The document was approved by the committee and submitted for TAC review at the Denver convention. Todd Watson is asked to report on TAC action taken in Denver.

From June 19 to July 19, 2006, ACI Committee 548 balloted a previously TSC reviewed draft of “Specification for Type ES Slurry Polymer Overlay for Bridge and Parking Garage Decks (ACI 548.ZR).” The document was approved by the committee and submitted for TAC review at the Atlanta (Spring 2007) convention.

From October 17 to November 16, 2006, ACI Committee 503 is balloting “Specification for Crack Repair by Epoxy Injection (ACI 503.7).” The specification was previously approved by TSC and TAC. The committee is balloting their response to comments received during the public discussion period.

**ACTION:** Is any action required?

#### 5. Requests for New Specifications

No new requests to write a specification have been received.

#### 6. Planning

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

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.”

##### 6.2 Goals for 2006

- Assist ACI 301, as needed, in completing its reorganization;
- Maintain updated database of ACI specification activities;
- Review draft specifications for conformance to the *ASpM* in a timely manner;
- Organize session for Atlanta on writing ACI specifications;
- Maintain punch list for future revision to the *ASpM*.

#### 7.0 ACI Specification Policy

### **7.1 Background**

Refer to the minutes of the previous five TSC meetings for background. On February 8, 2004, Chair Carino submitted to TAC the TSC recommendation for the reorganization of ACI 301. At the fall 2004 meeting, TAC selected Cal McCall for a three-year term to implement this reorganization. At the spring 2005 New York City convention, a meeting was held with chairs of the committees directly affected by the new format for ACI 301. At the fall 2005 convention in Kansas City, the reorganized Committee 301 held its first meeting. McCall reported that, in consultation with the subcommittee chairs, about 30 voting and 30 nonvoting (subcommittee only) members have been appointed to ACI 301. He also suggested that the chairs (or their designates) of the expert committees that are within the scope of ACI 301 should be added as consulting members so that they will receive all Committee 301 correspondence. As of March 15, 2006, this had not been done.

**REPORT:** Calvin McCall is asked to report on the reorganization of ACI Committee 301.

**ACTION:** Is any action required?

### **7.2 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.

**QUESTION:** What is the role of TSC on this subject?

**ACTION:** No action at this time, but the item should be retained on the agenda for future action.

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

TSC members are developing a technical session for presentation at the Spring 2007 convention in Atlanta. Presenters are: Pergalsky, Weiss, Carino, and Coleman. Weiss is the session moderator.

**ACTION:** Art Weiss is asked to update TSC on the session.

## **9. Committee Associate Members**

In Charlotte, TSC asked Secretary Watson to appoint each TSC liaison member as an associate member of their assigned committee. This action will give the TSC liaison access to the committee’s website.

**REPORT:** Some of the TSC liaison members were already voting or associate members of their assigned committees. Watson arranged for the rest to be appointed as associate members: Gene

Daniel to Committee 423; Al Kaufmann to Committees 303 and 551, and Art Weiss to Committees 304, 330, 336, 533, 548.

A liaison member will need to be appointed to Committees 117 and 503 (see item 1.3 of this agenda).

**ACTION:** Is any action required?

**10. Next Meeting**

**11. Adjournment**

**ATTACHMENTS:**

- Attachment 1.3 — TSC Roster with Contact and Assignment Information
- Attachment 2.2 — 2005 *ACI Specification Manual* Punch List of Future Changes
- Attachment 3.1 — ACI Specifications Activity Database

**Copies:**

- ACI TAC members
- ACI Engineering staff

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

January 2006			
Name	Assignment	Telephone No.	E-Mail Address
<b>TSC Officers and TAC Contacts</b>			
David Johnston	Chair	919/515-7412	<a href="mailto:johnston@eos.ncsu.edu">johnston@eos.ncsu.edu</a>
Todd R. Watson	Secretary TSC (NV)	248/848-3728	<a href="mailto:todd.watson@concrete.org">todd.watson@concrete.org</a>
Ron Burg	Chair TAC	847/972-3050	<a href="mailto:rburg@ctlgroup.com">rburg@ctlgroup.com</a>
Daniel W. Falconer	Secretary TAC	248/848-3726	<a href="mailto:daniel.falconer@concrete.org">daniel.falconer@concrete.org</a>
M. A. (Tony) Murray	TAC Contact	303/688-8244	<a href="mailto:tmurray@restruaction.com">tmurray@restruaction.com</a>
<b>Voting Members</b>			
Jon B. Ardahl	301, 350, 506	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>
William C. Bretnall		216/241-7078	<a href="mailto:bbretnall@gba-engineers.com">bbretnall@gba-engineers.com</a>
Nicholas J. Carino		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> *
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		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.	304, 330, 336, 533, 548	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. Dorfmuehler	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

**Attachment 2.2**  
**2005 ACI Specification Manual Punch List of Future Changes**

Section	Issue	Action
<b>APPROVED REVISIONS</b>		
<b>PROPOSED REVISIONS</b>		
1.2.2	Revisit definitions for submit and submittal (should it say “for review or acceptance”).	Nov. 2005: added to punch list.  March 2006: Remove “acceptance” from definition and put wording elsewhere in the manual that the engineer must accept the submittal.
1.3.5	Should specifications be in dual units? Board policy requires that they are.	Nov. 2005: added to punch list.  March 2006: Fix typo (1.3.5 “...shall use dual units <del>or SI units</del> or may be...”) Also, TSC sees dual units as a potential problem. Consider using the word “default” instead of “standard” in the units statements shown in Section 3.3.
3.3	An ACI committee may wish to write a “materials” specification when an ASTM specification is lacking. In this case the “execution” part is not appropriate, because that is directed to the Contractor.	April 2005: Explain that an ACI specification needs three parts if all of them are necessary.  Nov. 2005: Revisit after the 2005 TCM is issued.  March 2006: Section 3.2.1.4 of the 2006 TCM now defines a materials specification and states that it must be in ASTM format. Add those words from the TCM into the <i>ASpM</i> . Also, scope needs to make it clear that the <i>ASpM</i> doesn’t cover materials specifications.
3.4	Review definitions of checklists. TAC had suggested adding “that require a decision” to the definitions in 3.4.2, 3.4.3, and 3.4.5.	Nov. 2005: added to punch list.  March 2006: Carino’s proposed wording will appear on next ballot.



Section	Issue	Action
5.2.2	Some TSC members question whether reference specifications should be allowed to have commentaries. Review whether 5.2.2 should be deleted.	Nov. 2005: added to punch list.  March 2006: Delete 5.2.2 for next ballot. TSC agreed that specifications should not have commentaries. 5.3.6 also has some wording that will need to be deleted.
	Revise format of reference specifications so that all non-mandatory text (Notes to Specifier) follows the mandatory text (Specification).	Nov. 2005: Added to punch list.  March 2006: (Carino’s proposed revisions show the necessary changes in <del>strikeout</del> and underline). TSC agreed with the move, so TSC needs to work towards reformatting the <i>ASpM</i> as necessary.
Guide spec	Does a guide specification require a mandatory checklist? Are other changes needed in light of the 304 document?	March 2006: added to punch list.
Materials spec	<i>ACI Technical Committee Manual</i> now allows for publishing materials specifications. Needs to be addressed in the <i>ASpM</i> .	Nov. 2006: added to punch list.

**Attachment 3.1  
ACI SPECIFICATIONS ACTIVITY DATABASE**

<b>Comm. No.</b>	<b>Title</b>	<b>Specification</b>	<b>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	117-90	Open for public discussion Nov. 1, 2004 – Jan. 31, 2005. Will be published in 2006. (Todd to put on TSC website; leave the old one up, though.)	Murray	Bakke
301	Specifications for Concrete	Specifications for Structural Concrete	301-05	Published Spring 2005. New Committee organized.	Ardahl (M)*	Not needed
303	Architectural CIP Concrete	Standard Specification for Cast-in-Place Architectural Concrete	303.1-97	Not currently revising the specification. Will be rolled into new ACI 301.	Kaufman	Dorfmueller
304	Measuring, Mixing, Transporting, and Placing Concrete	Guide Specification for Underwater Concrete	In preparation	Outline approved by TSC April 2005; TAC approved July 2005. Committee is balloting and will send to TSC.	Weiss	Holland
305	Hot Weather Concreting	Standard Specification for Hot Weather Concreting	In Preparation	Responding to public comment.	Daniel	Not needed

<b>Comm. No.</b>	<b>Title</b>	<b>Specification</b>	<b>Status</b>	<b>Comment/ Action</b>	<b>TSC Liaison</b>	<b>Nonvoting TSC Members</b>
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
308	Curing Concrete	Standard Specification for Curing Concrete	308.1-98	Aimee checking March 2006 ballot for compliance with <i>ASpM</i> .	Pergalsky (M)*	Not needed
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.	Weiss	Kazanis
336	Footings, Mats, and Drilled Piers	Specification for the Construction of Drilled Piers	336.1-01	No action reported. Weiss to recommend revise at least to comply with <i>ASpM</i> . Oliver to convey need to chair.	Weiss	Oliver
346	CIP Pipe	Specification for Cast-in-Place Concrete Pipe	346-01	No action reported. Kaufman to work on revising it. Ballot after Charlotte	Kaufman (M)*	Not needed
350	Environmental Structures	Specification for Environmental Engineering Concrete Structures	In preparation	Spec balloted to main and approved before Charlotte. Send it to TSC chair for review by TSC.	Ardahl (M)*	Not needed

<b>Comm. No.</b>	<b>Title</b>	<b>Specification</b>	<b>Status</b>	<b>Comment/ Action</b>	<b>TSC Liaison</b>	<b>Nonvoting TSC Members</b>
423	Prestressed Concrete	Specification for Unbonded Single Strand Tendons and Commentary	423.6-01/423.6R-01	TSC approved plan to prepare materials spec and separate installation spec 4/05. They balloted and it closed on 3/23/06. TSC needs to look at it. As of 3/06 TSC meeting, Carino reviewing.	Daniel	423 chair (Bruce Russell) to appoint TSC rep.
503	Adhesives in Concrete	Standard Specification for Bonding Concrete, Steel, Brick and Other Materials to Hardened Concrete with a Multi-Component Epoxy Adhesive	503.1-92 R97	Format revision overdue	Murray (M)*	Not needed
		Standard Specification for Bonding Plastic Concrete to Hardened Concrete with a Multi-Component Epoxy Adhesive	503.2-92 R-97	Format revision overdue		
		Standard Specification for Producing a Skid Resistant Surface on Concrete by the Use of a Multi-Component Epoxy System	503.3-92 R97	Format revision overdue		
		Standard Specification for Repairing Concrete with Epoxy Mortars	503.4-92 R97	Format revision overdue		
		Standard Specification for Crack Repair by Epoxy Injection	503.7-XX	Public discussion ended 11/30/05. Committee preparing closure.		
506	Shotcreting	Specifications for Shotcrete	506.2-95	Revising.	Ardahl (M)*	Not needed

<b>Comm. No.</b>	<b>Title</b>	<b>Specification</b>	<b>Status</b>	<b>Comment/ Action</b>	<b>TSC Liaison</b>	<b>Nonvoting TSC Members</b>
522	Pervious Concrete	Specification for Pervious Concrete Pavements	In preparation	Request approved by TAC July 2005. Balloting: Aimee reviewing.	Pergalsky	Fisher
533	Precast Panels	Proposed Specification on Precast Panels	In preparation.	TAC approval needed. Will be folded into ACI 301?	Weiss	Freedman
548	Polymers in Concrete	Standard Specifications for Latex Modified Concrete (LMC) Overlays	548.4-93 R98	Format revision overdue	Weiss	Stenko
		Standard Specifications for Type EM Polymer Concrete Overlays	committee revising	Submitted to TAC for review at Nov. 2006 meeting.		
		Standard Specifications for Type ES Polymer Concrete Overlays	committee revising	Balloted		
551	Tilt-Up Construction	Specification on Tilt-Up Construction	In preparation.	Being rolled into 301; not clear if will keep a stand alone.	Kaufman	Baty

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