



Concrete — A Century of Innovation

AGENDA

TAC Specifications Committee

Hyatt Regency
Plaza C
Wednesday, April 2, 2003
7:00 to 10:00 AM
Vancouver, British Columbia

Voting Members:

Nicholas J. Carino, Chair and TAC Contact
Todd R. Watson, Secretary (Non-voting)
Jon B. Ardahl
William L. Barringer
William C. Bretnall
Jeffrey W. Coleman
D. Gene Daniel

I. Leon Glassgold
Ronald L. Hollrah
Alfred L. Kaufman, Jr.
W. Calvin McCall
Myles A. (Tony) Murray
Aimee Pergalsky
Arthur T. Weiss, Jr.

Associate Members

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

Kenneth G. Kazanis
William H. Oliver, Jr.
Robert J. Ryan
Michael S. Stenko

1. Call to Order and Introduction of Members and Visitors

1.1 Approval of Agenda

ACTION: Are any changes to the agenda required?

1.2 Approval of Minutes

ACTION: Does TSC approve the Minutes of the 2002 fall meeting in Phoenix?

1.3 Membership Report

REPORT: No change has been made to the membership since the Phoenix meeting. The current TSC roster is shown as Exhibit 1. Members are asked to review the roster and inform Secretary Watson of any corrections.

2. Status of ACI Specification Manual (*ASpM*)

The 2002 version of the *ACI Specifications Manual* is available on the ACI Web site at: http://www.concrete.org/COMMITTEES/com_forms.htm. Hard copies have been mailed to the members TSC and to the chairs of all ACI specification-writing committees.

2.1 New Business Items

As a result of the TAC review and comments received during the balloting of the revision, new items to be considered in the next revision have been identified. A punch list of these items was approved at the Phoenix meeting and is attached as Exhibit 2.1.

ACTION: Members are requested to review the 2002 version of the manual and submit any items of new business to add to the punch list. Submit your comments to Chair or Secretary. Discussion of the punch list is deferred to the Fall meeting.

3. Status of Specifications

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). Exhibit 3 summarizes ACI specification activities and current membership assignments.

REPORT: Normally, TSC Liaison and Associate Members are asked to report their respective committees' activities and discuss any actions required of TSC. Due to workshop to be held as part of this meeting, a formal review of committee activities is deferred to the fall meeting. Members are asked to report any corrections to Exhibit 3 to the Secretary. For continuity, however, the committee list is included with this agenda.

Committee 117: Liaison Tony Murray. Associate Member Karl Bakke.

Committee 301: Liaison Jon Ardahl. (Revision to TAC in Vancouver)

Committee 303: Liaison Alfred Kauman. Associate Member Dan Dorfmueller.

Committee 305: Liaison Aimee Pergalsky. Associate Member Robert Ryan.

Committee 306: Liaison Aimee Pergalsky. Associate Member Robert Ryan.

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.

Committee 503: Liaison Tony Murray.

Committee 506: Liaison Jon Ardahl. (TAC approval of guide specification required).

Committee 530: Liaison pending committee decision on future of specification.

Committee 533: Liaison Art Weiss. Associate Member Sidney Freedman. (TAC approval needed)

Committee 548: Liaison Art Weiss. Associate Member Mike Stenko.

Committee 551: Liaison Alfred Kaufman. Associate Member Jim Baty.

4. Specification Review

Since the fall meeting, TSC members have reviewed draft specifications.

4.1 ACI 551 Specification on Tilt-up Concrete Construction

Carino and Kaufman reviewed the latest draft. A series of general comments and a marked up draft were returned to the committee.

REPORT: Al Kaufman and Jim Baty are asked to report.

4.2 ACI 506 Guide Specification for Shotcrete for Underground Support

Liaison member Ardahl received a draft of the guide specification. The committee, however, has not requested TAC approval to write a guide specification.

REPORT: Jon Ardahl is asked to report.

5. Requests for New Specifications

Staff has received no new requests.

6. Planning

6.1 TSC Mission

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 Proposed Goals for 2003

- Develop plan for implementing TAC mandate to revise the approach for developing the Institute’s specification for structural concrete;
- Maintain database of ACI specification activities;
- Review draft specifications in a timely manner;

- Continue development of training program for writing ACI specifications;
- Maintain punch list for future revision to the *ACI Specifications Manual*;
- Develop proposal for ACI e-Specifications.

ACTION: Does TSC approve the proposed goals for 2003?

7.0 ACI Specification Policy

7.1 Background

TAC has delegated to TSC the authority to manage specification development by the Institute. According to the TSC procedures, this involves the following activities:

- Review committee requests to begin the development of new specifications;
- Identify needs for new specifications; and
- Eliminate conflicts among ACI Specifications.

Before the Detroit meeting, TAC Chair Dolan asked TSC to develop a draft ACI policy to solve the current problem of overlap between ACI 301 and other ACI Specifications dealing with structural concrete. At the Detroit meeting, two approaches were considered.

- Make ACI 301 the only specification on all aspects of structural concrete (Option 1).
- Reduce the scope of ACI 301 to core provisions and prepare additional single-item specifications to support the core provisions (Option 2).

The pros and cons of the two approaches were discussed and a letter ballot of TSC was issued with a closing date of June 7, 2002. The results were 7 for Option 1, 1 for Option 2, and 5 no returns.

The TSC ballot summary was forwarded to TAC who reviewed the issue at their July 2002 meeting. TAC decided that ACI 301 should be organized following Option 1 of the ballot. TAC assigned TSC the task of organizing and moderating a workshop of the affected ACI committees. The workshop's goal will be to define how Committee 301 and the related expert committees will work together to develop an enhanced specification for structural concrete.

7.2 Workshop on Implementing the Change

In early March, Chair Carino sent an invitation to the Chairs of ACI committees that write, or are planning on writing, specifications to attend a workshop to be held during this TSC meeting. The background leading to the workshop was reviewed in the invitation and the two options were compared.

The workshop agenda is provided in Exhibit 7.2

ACTION: A draft plan for implementing Option 1 will be developed.

7.3 e-Specifications

ACI Staff, TSC, and ACI 301 Chair McCall have been discussing the idea of preparing an “active” computer-based specification that can be tailored to a specific project and

included directly in the project specifications. At the Phoenix meeting, a task group composed of Art Weiss (Chair), Jon Ardahl, Al Kaufman, Jeff Coleman, and Jim Shilstone was asked to discuss alternative approaches and prepare a draft plan for discussion at Vancouver.

REPORT: Art Weiss is asked to report on the task group's progress.

8. Workshop on Specification Writing

Art Weiss has been working on developing presentation materials for an upcoming training session on writing specifications. The focus will be on discussing how an ACI specification fits into the project specification and a review of the main features of the *ACI Specifications Manual*.

REPORT: Art Weiss is asked to report.

ACTION: Are we ready to request a session at a future convention?

9. New Business

10. Next Meeting

The next TSC meeting will be held on Wednesday morning at the 2003 Fall Convention in Boston.

11. Adjournment

EXHIBITS:

- Exhibit 1 — TSC Roster with Contact and Assignment Information
- Exhibit 2.3.1 — *ASpM* Punch List
- Exhibit 3 — ACI Specifications Activity Database
- Exhibit 7.2 — Workshop Agenda

Copies:

Terence C. Holland, President, ACI
José M. Izquierdo, Vice President, ACI
Anthony E. Fiorato, Vice President, ACI
Daniel L. Baker, Ex-Officio, ACI
William R. Tolley, Executive Vice President, ACI
Om P. Dixit, Chair, ACI-TAC
Sharon L. Wood, Chair Elect, ACI TAC
Daniel W. Falconer, Secretary, ACI-TAC

**Exhibit 1
 TSC Contact Information**

March 2003			
Name	Assignment	Telephone No.	E-Mail Address
TSC Officers and TAC Contacts			
Nicholas J. Carino	Chair & TAC Contact	301/975-6063	ncarino@nist.gov
Todd R. Watson	Secretary TSC (NV)	248/848-3728	todd.watson@concrete.org
Om P. Dixit	Chair TAC	307/766-5255	om.dixit@dmjmharris.com
Daniel W. Falconer	Secretary TAC	248/848-3726	daniel.falconer@concrete.org
Voting Members			
Jon B. Ardahl	301, 350, 506	785/887-9991	ard00097@netzero.net
William L. Barringer		505/293-8368	joy2Bill@aol.com
William C. Bretnall		216/241-7078	bbretnall@gba-engineers.com
Jeffrey W. Coleman		952/841-0200	jwcoleman2@cs.com
D. Gene Daniel	305, 423	479/636-1856	dgenedinc@aol.com *
I. Leon Glassgold		410/355-4390	102126.1102@compuserve.com
Ronald L. Hollrah		913/458-8300	hollrahrl@bvsg.com
Alfred L. Kaufman, Jr.	303, 346, 551	925/866-2780	akaufman@rmcpmi.com
W. Calvin McCall		704/392-1506	wcmccall@bakerconcrete.com
M. A. (Tony) Murray	117, 503	303/688-8244	tmurray@restruaction.com
Aimee Pergalsky	306, 308	216/496-9265	geoaimee@aol.com
Arthur T. Weiss, Jr.	330, 336, 533, 548	770/860-1942	aweiss7501@aol.com
Associate Members			
Karl J. Bakke	117	303/674-2290	karl.bakke@kalmanfloor.com
James R. Baty	551	319/895-6911	jbaty@cfawalls.org
Daniel P. Dorfmueller	303	513/539-4043	dorf@jostinconcrete.com
Sidney Freedman	533	312/786-0300	sfreedman@pcinst.com
Kenneth G. Kazanis	330	248/354-9050	ken.kazanis@lafargecorp.com
William H. Oliver, Jr.	336	713/207-4379	billy.oliver@centerpointenergy.com
Robert J. Ryan	305, 306,	216/839-7500	rryan@mbt.com
Michael S. Stenko	548	914/636-1000	mstenko@transpo.com
*Text e-mail messages only; mail hard copies of any attached files			

Exhibit 2.1

2002 ACI Specification Manual Punch List of Future Changes

Section	Issue	Action
2.3	TAC 7/02: Clarify if all topics in Section 2.3 are required.	
3.3 Definitions	TAC 7/02: Including definitions for all terms in a spec that are not in 116R could be overwhelming; however, a clear statement that significant, important, pertinent, or, etc, terms should be defined will be difficult. Also, I am not sure what is meant by terms used in unique ways.	
	Consider recommending a structured format for checklist items: <ul style="list-style-type: none"> • Statement of requirement • Guidance to specifier • References 	
	Define specification formats <ul style="list-style-type: none"> • Product • Prescription • Performance 	
	Recommended format for specifying performance criteria.	
4.4	Should guide specifications include mandatory and optional checklists? A critical review of Chapter 4 is needed.	

Exhibit 3

ACI SPECIFICATIONS ACITIVITY DATABASE

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
117	Tolerances	Standard Specifications for Tolerances for Concrete Construction and Materials	117-90	Revisions submitted to TAC 7/02. Approved. Committee responding to TAC comments.	Murray	Bakke
301	Specifications for Concrete	Specifications for Structural Concrete	301-99	Incorporating 318 changes. Submitted to TAC review 3/03	Ardahl (M)*	Not needed
303	Architectural CIP Concrete	Standard Specification for Cast-in-Place Architectural Concrete	303.1-97	Agreement reached with 301. Revising spec.	Kaufman	Dorfmueller
305	Hot Weather Concreting	Standard Specification for Hot Weather Concreting	Draft 17	To TAC 3/01. Not approved. Working on response to TAC comments.	Daniel	Ryan
306	Cold Weather Concreting	Standard Specification for Cold Weather Concreting	306.1-90 (R-98)	No action on Spec. Working on report first.	Pergalsky	Ryan
308	Curing Concrete	Standard Specification for Curing Concrete	308.1-98	Planning new Specs. Need TAC approval of request	Pergalsky (M)*	Not needed
330	Concrete Parking Lots and Site Paving	Standard Specification for Plain Concrete Parking Lots	330.1-94	New version in May 2002 CI. Public discussion closed Aug. 1, 2002;	Weiss	Kazanis

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
				closure balloted by TAC 1/03		
336	Footings, Mats, and Drilled Piers	Specification for the Construction of Drilled Piers	336.1-01	No action reported	Weiss	Oliver
346	CIP Pipe	Specification for Cast-in-Place Concrete Pipe	346-01	Review in progress.	Kaufman (M)*	Not needed
347	Formwork for Concrete	(Proposed specification on formwork)	Planning	Need request to TAC; committee balance.		
350	Environmental Structures	Proposed Specification for Environmental Engineering Concrete Structures	In preparation	TSC/TAC approval to proceed given 4/02; Committee drafting it; committee ballot expected after Vancouver	Ardahl (M)*	Not needed
423	Prestressed Concrete	Specification for Unbonded Single Strand Tendons and Commentary	423.6-01/423.6R-01	No action reported	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		Murray (M)*	Not needed
		Standard Specification for Bonding Plastic Concrete to Hardened Concrete with a Multi-Component Epoxy Adhesive	503.2-92 R-97			

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
		Standard Specification for Producing a Skid Resistant Surface on Concrete by the Use of a Multi-Component Epoxy System	503.3-92 R97	Need to check for conflicts with 548 Specs		
		Standard Specification for Repairing Concrete with Epoxy Mortars	503.4-92 R97			
		Standard Specification for Crack Repair by Epoxy Injection	In preparation	Submitted to TAC, Fall 2002. Approved by TAC. Committee responding.		
506	Shotcreting	Specifications for Shotcrete	506.2-95	Finalizing rewrite from ballot comments.	Ardhal (M)*	Not needed
		Guide Specification for Concrete for Underground Support	In preparation	TAC approval not requested		
530	Masonry Standards Joint Committee	Specification for Masonry Structures	530.1-99	Discussing idea to separate code and spec requirements.	(pending)	(pending)
533	Precast Panels	Proposed Specification on Precast Panels	In preparation. TAC approval needed.	Weiss to review current draft	Weiss	Freedman
548	Polymers in Concrete	Standard Specifications for Latex Modified Concrete (LMC) Overlays	548.4-93 R98		Weiss	Stenko
		Standard Specifications for Type EM Polymer Concrete Overlays	In preparation	Need to check w/ 503.3 for conflict. Need 503 test method to proceed.		

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
551	Tilt-Up Construction	Specification on Tilt-Up Construction	In preparation.	Committee ballot 12/02; Kaufman and Carino provided comments	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.

Exhibit 7.2

**Workshop on Process to Implement Future ACI Specification for Structural
Concrete**

April 2, 2003
Hyatt Regency, Plaza C
Vancouver BC

Agenda

1. Review background and objective of workshop (Carino)
2. Proposal on reorganization of ACI 301 (McCall)
 - Why is the proposed expansion of ACI 301 in the best interests of the user?
 - What will be included in an expanded ACI 301 Specification?
 - How will expert committees participate in ACI 301?
 - What is the proposed time frame for making the transition?
3. Points of view of other specification-writing committees
 - ACI 117, 303, 305, 306, 308, 423
 - ACI 330, 336, 346, 350, 503, 506, 530, 548, 551
4. Draft an Action Plan for implementing the change