AGENDA

TAC Specifications Committee
Wednesday, November 5, 2008, 7 – 10 AM
November 2-6, 2008
Renaissance Grand and America's Center,
St. Louis, MO

Voting Members:
David W. Johnston, Chair
Miroslav F. Vejvoda, 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 spring 2008 meeting in Los Angeles?

1.3 Membership Report

REPORT: Attachment 1.3 shows the current roster.

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

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/technical/technical.htm](http://www.concrete.org/technical/technical.htm)

ACTION: No action is required.

2.2 **Revisions to the 2005 ASpM**

TSC has balloted the revisions to the 2005 ASpM before the Puerto Rico meeting. The ballot received many negative votes and the ballot did not pass.

The following items were discussed at the meeting in Puerto Rico.

- Common terminology should be used to avoid lawsuits.
- Capitalize all defined terms as common in Contract Documents.
- Use leading caps in Reference Specifications, Guide Specifications, Manual, etc.
- When referring to the ACI specifications, state “ACI Reference Specification.”
- In the *ASpM*, the Sections may be called Chapters.
- Retain the designation “hard” and “soft” conversions; “practical” and theoretical” may be mentioned in parentheses.
- Retain “Referenced Standards” instead of the proposed “Normative References.”
- Committees should be informed of the TSC review process for specifications. The liaison member together with the TSC chair determines the appropriate timing of the TSC review group review of the draft specification.
- The TSC review group will have a conference call to finalize the comments that will be sent back to the committee.

A motion passed to change the *ASpM* draft to incorporate these discussed items.

TSC has balloted the revisions to the 2005 ASpM again (12/21/07-1/20/08). The ballot received many negative votes and the ballot did not pass. The remaining issues were resolved during a conference call with the negative voters and the chair. Chair Johnston asked the committee to confirm the latest revisions in a final ballot (2/25/08-3/4/08).

After a successful ballot, the draft *ASpM* will be sent to a TAC ballot. It is the intent to have the 2008 *ASpM* ready for distribution at the spring convention in Los Angeles.

Secretary Vejvoda is asked to report.

ACTION: Is any TSC action required?

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.
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 311 submitted a document on testing to TSC some time ago and it was rejected as a specification. The committee included the content in an appendix to the Guide document and submitted it to TAC for approval for the 2007 summer meeting. TAC recommended the committee submit it as a standalone specification instead. The committee submitted the 311.X-XX specification to TAC for the fall convention in Puerto Rico.

At the Puerto Rico meeting, TAC reviewed the ACI 311.X-XX document and approved it subject to satisfactory compliance with TAC comments. The title was changed to “Specification for Ready-Mixed Concrete Testing Services”. Because of the limited time available, TSC was asked to perform their final format review as an external reviewer during the review of the committee responses to TAC comments. In March 2008, TSC review group, Jon Ardahl, Nick Carino, Jeff Coleman, Charles Hanskat, and Alfred
Kaufman, provided TSC comments for the committee’s consideration at their Los Angeles meeting.

A discussion evolved on the 311 document and the review process. Although this committee agreed in Puerto Rico that this is a valuable and needed document, some members question its need within the ACI documents.

“ACI Manual of Concrete Inspection” (ACI 311.1R-07 [SP-2-07]) has been published and is available for public purchase.

ACI 117 submitted the revised specification to TAC after the Puerto Rico meeting and it was reviewed immediately by TAC. It was reviewed also by ACI 301, with two members of both, 301 and TSC reviewing it for both committees (Chair Johnston and McCall).

ACI 117 responded to the TAC comments at this meeting and is expected to ballot responses shortly. The nonmandatory portion of the document is in the back.

A discussion evolved on a suggestion to include a “trigger” language in specification text that there is a mandatory checklist item. There already is such language for optional checklist items that reads: “unless otherwise specified.” A motion was made, seconded, and modified to revise the future Specification Manual to permit specifications to indicate that there is a mandatory checklist item by stating: “as specified in Contract Documents.” (Motion carried with 5Y, 2N, 0A, 1 not voting.) ACI 301 and 117 will add such language while it already exists in 350.

ACI 301: The goal is to submit to TAC after the 2008 fall convention.

ITG-7 is developing a specification for precast tolerances. The ITG balloted the document before the meeting and is planning on resolving negatives in Los Angeles. The plan is to submit to TAC for the summer meeting review. There are three TSC members on ITG-7 who will act as TSC TG-ITG-7: ITG-7 Chair Hanskat, Carino, and McCall. TSC will review the document parallel with the TAC review.

ACTION: No action is 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.

ACTION: The associate membership of TSC will be checked to ensure all liaison members are in place.
5. **Requests for New Specifications**

Committee 548 requested approval to write a new specification, submitted by 548 Chair Mike Stenko. The request was circulated to the TSC; see Attachment 5.0. Concerns were relayed to TAC. Committee 548 was asked to respond by the St. Louis convention.

**ACTION:** Is any action required?

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.”

**ACTION:** Is any action required?

6.2 **Goals for 2008**

Chair Johnston identified the following TSC goals:
- Review committee requests to develop new specifications and make recommendations to TAC;
- Coordinate specifications that overlap ACI code dependent specifications such as 301;
- Maintain updated database of ACI specification activities;
- Review draft specifications for conformance to the ASpM in a timely manner;
- Maintain punch list for future revisions to the ASpM;
- Submit for TAC review approved revisions of 2005 ASpM; and
- Refine liaison procedures, encourage TSC member attendance, and appoint new members.

**ACTION:** Is any action required?

7.0 **ACI Specification Policy**

7.1 In 2004, TAC approved the reorganization of ACI 301. The intent is to include all specifications for structural concrete in one document that corresponds to ACI 318 Code.

ACI 301-09 is in preparation and is expected to be submitted to TAC in late 2009. This will be the first edition of the reorganized 301 specification.

**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.

Staff member Senecal reported that it is still a priority although it was delayed.

A Task Group (TG-7.2) (Ardahl, Hanskat, and Weiss) is in place to advice staff and to review the e-specification draft.

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 of the announcement at the TAC chair breakfast, additional effort in communicating with potential attendees is desirable. Another session would be beneficial when the first ACI Guide Specification is published.

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 3.1 — ACI Specifications Activity Database
Attachment 5.0 — ACI 548 Proposal for a New Specification

COPIES:
TSC Members
ACI TAC members
ACI Engineering staff
## Attachment 1.3
### TSC Roster with Contact and Assignment Information

**October 2007**

<table>
<thead>
<tr>
<th>Name</th>
<th>Assignment</th>
<th>Telephone No.</th>
<th>E-Mail Address</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TSC Officers and TAC Contacts</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>David Johnston</td>
<td>Chair and TAC Contact</td>
<td>919/515-7412</td>
<td><a href="mailto:johnston@eos.ncsu.edu">johnston@eos.ncsu.edu</a></td>
</tr>
<tr>
<td></td>
<td>RG-440 Chair, RG-503.3 Chair</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Miroslav Vejvoda</td>
<td>Secretary TSC (NV)</td>
<td>248/848-3713</td>
<td><a href="mailto:miroslav.vejvoda@concrete.org">miroslav.vejvoda@concrete.org</a></td>
</tr>
<tr>
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</tr>
<tr>
<td><strong>Voting Members</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jon B. Ardahl</td>
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<td>785/887-9991</td>
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<tr>
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<tr>
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<td><a href="mailto:ncarino@nist.gov">ncarino@nist.gov</a></td>
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<td>D. Gene Daniel</td>
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<td>479/636-1856</td>
<td><a href="mailto:dgenedinc@aol.com">dgenedinc@aol.com</a>*</td>
</tr>
<tr>
<td>Charles S. Hanskat</td>
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<td>Aimee Pergalsky</td>
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<td>216/491-9265</td>
<td><a href="mailto:geoaimee@aol.com">geoaimee@aol.com</a></td>
</tr>
<tr>
<td>Arthur T. Weiss, Jr.</td>
<td>330, 336, 533, 548, TG-7.2, RG-440, RG-503.3</td>
<td>770/860-1942</td>
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</tr>
<tr>
<td><strong>Associate Members</strong></td>
<td></td>
<td></td>
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<tr>
<td>Karl J. Bakke</td>
<td>117</td>
<td>303/674-2290</td>
<td><a href="mailto:karl.bakke@kalmanfloor.com">karl.bakke@kalmanfloor.com</a></td>
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<td>James R. Baty</td>
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<td>Daniel P. Dorfmueller</td>
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<td>513/933-0489</td>
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<td>Dale Fisher</td>
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<td>Sidney Freedman</td>
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<td>312/786-0300</td>
<td><a href="mailto:sfreedman@pci.org">sfreedman@pci.org</a></td>
</tr>
<tr>
<td>Terence Holland</td>
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<td>440/834-1697</td>
<td><a href="mailto:concrete.terry@att.net">concrete.terry@att.net</a></td>
</tr>
<tr>
<td>Kenneth G. Kazanis</td>
<td>330</td>
<td>248/354-9050</td>
<td><a href="mailto:ken.kazanis@lafarge-na.com">ken.kazanis@lafarge-na.com</a></td>
</tr>
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<td>William H. Oliver, Jr.</td>
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<td>713/207-4379</td>
<td><a href="mailto:billy.oliver@centerpointenergy.com">billy.oliver@centerpointenergy.com</a></td>
</tr>
<tr>
<td>Michael S. Stenko</td>
<td>548</td>
<td>914/636-1000</td>
<td><a href="mailto:mstenko@transpo.com">mstenko@transpo.com</a></td>
</tr>
</tbody>
</table>

*Text e-mail messages only; mail hard copies of any attached files*
## Attachment 3.1
### ACI SPECIFICATIONS ACTIVITY DATABASE

<table>
<thead>
<tr>
<th>Comm. No.</th>
<th>Title</th>
<th>Specification</th>
<th>Number / Status</th>
<th>Comment/ Action</th>
<th>TSC Liaison</th>
<th>Nonvoting TSC Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>117</td>
<td>Tolerances</td>
<td>Standard Specifications for Tolerances for Concrete Construction and Materials</td>
<td>117-06</td>
<td>ACI 117-06 was published in Oct. 2006. ACI 117 is finalizing a revision: Responded to the TAC comments at the LA meeting and is expected to ballot responses shortly. The nonmandatory portion of the document is in the back.</td>
<td>Hanskat</td>
<td>Bakke</td>
</tr>
<tr>
<td>ITG-7</td>
<td>Specification for Tolerances for Precast Concrete</td>
<td>Specification for Tolerances for Precast Concrete</td>
<td>ACI ITG 7-XX</td>
<td>The ITG balloted the document before the meeting and is planning on resolving negatives in Los Angeles. The plan is to submit to TAC for the summer meeting review.</td>
<td>Hanskat</td>
<td>Ardahl</td>
</tr>
<tr>
<td>301</td>
<td>Specifications for Concrete</td>
<td>Specifications for Structural Concrete</td>
<td>301-08 in preparation</td>
<td>Published Spring 2005. New Committee organized. The goal is to submit 301-09 to TAC after the 2008 fall convention.</td>
<td>Ardahl (M)*</td>
<td>Not needed</td>
</tr>
<tr>
<td>304</td>
<td>Measuring, Mixing, Transporting, and Placing Concrete</td>
<td>Guide Specification for Underwater Concrete</td>
<td>In preparation</td>
<td>Outline approved by TSC in April 2005 and TAC in July 2005. A TSC Task Group (TG-304) provided comments in 2007. This will be the first ACI Guide</td>
<td>Carino</td>
<td>Holland</td>
</tr>
<tr>
<td>Comm. No.</td>
<td>Title</td>
<td>Specification</td>
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<tr>
<td>305</td>
<td>Hot Weather Concreting</td>
<td>Specification for Hot Weather Concreting</td>
<td>ACI 305.1-06</td>
<td>Published in 2007.</td>
<td>Daniel</td>
<td>Not needed</td>
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<tr>
<td>308</td>
<td>Curing Concrete</td>
<td>Standard Specification for Curing Concrete</td>
<td>308.1-98</td>
<td>Balloted summer ‗06. Resolving negatives. Expect to go to TAC soon.</td>
<td>Pergalsky (M)*</td>
<td>Not needed</td>
</tr>
<tr>
<td>311</td>
<td>Inspection of Concrete</td>
<td>Specification for Ready-Mixed Concrete Testing Services</td>
<td>311.X-XX</td>
<td>Submitted for TAC review in Puerto Rico (Fall 2007); TSC TG reviewed in March 2008; Committee responding to TSC in LA.</td>
<td>Kaufman</td>
<td></td>
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<tr>
<td>330</td>
<td>Concrete Parking Lots and Site Paving</td>
<td>Standard Specification for Plain Concrete Parking Lots</td>
<td>330.1-03</td>
<td>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.</td>
<td>Weiss</td>
<td>Kazanis</td>
</tr>
<tr>
<td>336</td>
<td>Footings, Mats, and Drilled Piers</td>
<td>Specification for the Construction of Drilled Piers</td>
<td>336.1-01</td>
<td>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</td>
<td>Weiss</td>
<td>Oliver</td>
</tr>
<tr>
<td>Comm. No.</td>
<td>Title</td>
<td>Specification</td>
<td>Number / Status</td>
<td>Comment/ Action</td>
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<td>Nonvoting TSC Members</td>
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<tr>
<td>346</td>
<td>CIP Pipe</td>
<td>Specification for Cast-in-Place Concrete Pipe</td>
<td>346-01</td>
<td>Revision going to TAC review in Santa Fe.</td>
<td>Kaufman (M)*</td>
<td>Not needed</td>
</tr>
<tr>
<td>347</td>
<td>Formwork for Concrete</td>
<td>Formwork Specification</td>
<td>New, in preparation</td>
<td>Committee is working on request to TSC to write a specification.</td>
<td></td>
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</tr>
<tr>
<td>350</td>
<td>Environmental Structures</td>
<td>Specification for Environmental Engineering Concrete Structures</td>
<td>In preparation</td>
<td>TSC review was done by Carino and Bill Barringer. Resolving negatives for last 2 sections (prestressed) at main. Probably will go to TAC in fall 2008 or after shortly after that.</td>
<td>Ardahl (M)*</td>
<td>Not needed</td>
</tr>
<tr>
<td>423</td>
<td>Prestressed Concrete</td>
<td>Specification for Unbonded Single-Strand Tendon Materials and Commentary</td>
<td>423.7-07</td>
<td>Published in 2007.</td>
<td>Hanskat</td>
<td>423 chair (Andrea Schokker) to appoint TSC rep.</td>
</tr>
<tr>
<td>423</td>
<td>Prestressed Concrete</td>
<td>Specification for Installation of Unbonded Single-Strand Tendons and Commentary</td>
<td>423.8</td>
<td>Committee still working on it.</td>
<td>Hanskat</td>
<td>423 chair (Andrea Schokker) to appoint TSC rep.</td>
</tr>
<tr>
<td>440</td>
<td>Fiber Reinforced Polymer Reinforcement</td>
<td>Specification for Carbon and Glass Fiber Reinforced Polymer (FRP) Bars for Concrete Reinforcement</td>
<td>440.Y-XX In public review</td>
<td>TSC (RG-440) review was completed on July 9, 2007. Comments forwarded to 440 as part of TAC review. In public review.</td>
<td>Carino</td>
<td></td>
</tr>
<tr>
<td>Comm. No.</td>
<td>Title</td>
<td>Specification</td>
<td>Number / Status</td>
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<tr>
<td>440</td>
<td>Fiber Reinforced Polymer Reinforcement</td>
<td>Specification for Construction with Fiber Reinforced Polymer (FRP) Reinforcing Bars and Their Supports</td>
<td>440.X-XX</td>
<td>TSC (RG-440) review was completed on July 9, 2007. Comments forwarded to 440 as part of TAC review. In public review.</td>
<td>Carino</td>
<td></td>
</tr>
<tr>
<td>503</td>
<td>Adhesives in Concrete</td>
<td>Standard Specification for Bonding Concrete, Steel, Brick and Other Materials to Hardened Concrete with a Multi-Component Epoxy Adhesive</td>
<td>503.1-92 R97, 03</td>
<td>Format revision overdue. TSC is recommending removal from the MCP. Committee intends to revise it per minutes from LA.</td>
<td>Hanskat</td>
<td></td>
</tr>
<tr>
<td>503</td>
<td>Adhesives in Concrete</td>
<td>Standard Specification for Bonding Plastic Concrete to Hardened Concrete with a Multi-Component Epoxy Adhesive</td>
<td>503.2-92 R-97, 03</td>
<td>Format revision overdue. TSC is recommending removal from the MCP. Committee intends to revise it per minutes from LA.</td>
<td>Hanskat</td>
<td></td>
</tr>
<tr>
<td>503</td>
<td>Adhesives in Concrete</td>
<td>Standard Specification for Producing a Skid Resistant Surface on Concrete by the Use of a Multi-Component Epoxy System</td>
<td>503.3-92 R97, 03</td>
<td>Committee balloting responses to TAC comments; standardization will follow probably in summer 2008.</td>
<td>Hanskat</td>
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<tr>
<td>503</td>
<td>Adhesives in Concrete</td>
<td>Standard Specification for Repairing Concrete with Epoxy Mortars</td>
<td>503.4-92 R97, 03</td>
<td>Format revision overdue. TSC is recommending removal from the MCP. Committee intends to revise it per minutes from LA.</td>
<td>Hanskat</td>
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<td>503</td>
<td>Adhesives in Concrete</td>
<td>Specification for Crack Repair by Epoxy Injection</td>
<td>503.7-07</td>
<td>Published in 2007.</td>
<td>Hanskat</td>
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<tr>
<td>Comm. No.</td>
<td>Title</td>
<td>Specification</td>
<td>Number / Status</td>
<td>Comment/ Action</td>
<td>TSC Liaison</td>
<td>Nonvoting TSC Members</td>
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<tr>
<td>506</td>
<td>Shotcreting</td>
<td>Specifications for Shotcrete</td>
<td>506.2-95</td>
<td>Revising. There are problems with major negatives and with the commentary. Will take some time to finish.</td>
<td>Ardahl (M)*</td>
<td>Not needed</td>
</tr>
<tr>
<td>522</td>
<td>Pervious Concrete</td>
<td>Specification for Pervious Concrete Pavement</td>
<td>522.1-08</td>
<td>Published in 2008.</td>
<td>Pergalsky</td>
<td>Fisher</td>
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<td>533</td>
<td>Precast Panels</td>
<td>Proposed Specification on Precast Panels</td>
<td>522.1-08</td>
<td>Will be folded into ACI 301.</td>
<td>Weiss</td>
<td>Freedman</td>
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<td>548</td>
<td>Polymers in Concrete</td>
<td>Standard Specifications for Latex Modified Concrete (LMC) Overlays</td>
<td>548.4-93 R98</td>
<td>Format revision overdue</td>
<td>Weiss</td>
<td>Stenko</td>
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<td>548</td>
<td>Polymers in Concrete</td>
<td>Specification for Type EM (Epoxy Multi-Layer) Polymer Overlay for Bridge and Parking Garage Decks</td>
<td>548.8-07</td>
<td>Published in 2007.</td>
<td>Weiss</td>
<td>Stenko</td>
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<tr>
<td>548</td>
<td>Polymers in Concrete</td>
<td>Specification for Type ES (Epoxy Slurry) Polymer Overlay for Bridge and Parking Garage Decks</td>
<td>548.X-XX</td>
<td>Responses to TAC comments completed; in preparation for public review.</td>
<td>Weiss</td>
<td>Stenko</td>
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<tr>
<td>548</td>
<td>Polymers in Concrete</td>
<td>Specification for Polymer Concrete and Composite Underground Utility Enclosures</td>
<td>Request to write a new spec.</td>
<td>Request reviewed by TSC; comments relayed to 548; response expected after LA meeting.</td>
<td>Weiss</td>
<td>Stenko</td>
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<tr>
<td>Comm. No.</td>
<td>Title</td>
<td>Specification</td>
<td>Number / Status</td>
<td>Comment/ Action</td>
<td>TSC Liaison</td>
<td>Nonvoting TSC Members</td>
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<td>563</td>
<td>Specifications for Repair of Structural Concrete in Buildings</td>
<td>Specification for Repair of Existing Structural Concrete</td>
<td></td>
<td>Committee is starting work on a specification to go with the 562 code requirements document.</td>
<td></td>
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</table>

*(M) indicates that the TSC liaison is also a member of the committee and an associate member from that committee is not necessary.
Attachment 5.0
Proposal for a new Specification
ACI Committee 548 – Mike Stenko, Chairman
Subcommittee 548C – PC Structures

Proposed Title: *Specification for Polymer Concrete and Composite Underground Utility Enclosures*

Scope: The proposed specification would provide the requirements for polymer concrete and fiberglass reinforced polymer composite underground utility enclosures, frequently called handholes. Enclosures would be suitable for use in light commercial and residential sidewalks, driveways, parking lots and behind curbs. They would not be installed in pavements in heavily traveled roadways where vehicle impact and fatigue loading occur. Performance and materials requirements, design criteria, and appearance would be included.

Statement of need: Enclosures (handholes) addressed by this specification are currently used by electric, water and communications utilities for access to buried outside plant equipment such as meters, splices, switches and fuses. Annual volume for PC/FRP handholes is estimated to be in the $250 million to $500 million range in the US. Currently, there is a regional guideline describing the features of these products (Western Underground Committee Guide 3.6) and a guide written by the Society of Cable Telecommunications Engineers (ANSI/SCTE 77-2007) directed at requirements for cable television applications. Otherwise, utilities have been either writing their own specifications, making partial reference to the two existing documents or choosing certain manufacturers to supply products without formalized specifications. This proposed specification would be a companion to the ACI 548.7 test method, providing detailed product requirements. Typically, the at-grade portions of these enclosures are polymer concrete to provide resistance to damage from equipment such as mowers and trimmers, to provide resistance to road salts and chemicals, and to provide UV resistance. By taking advantage of the strength/weight ratios, many sizes have removable covers that can be handled without heavy equipment, reducing maintenance costs. Currently, both ETL and UL have listings for these products.

Objectives: The objective of the specification is to provide a detailed, single document describing the performance requirements for precast polymer concrete and PC/FRP composite underground utility enclosures.

Proposed Outline:
A. General
   a. Scope
   b. Definitions
   c. Reference Standards
   d. Standards-producing Organizations
   e. Submittals
   f. Quality Assurance
B. Products
   a. Covers – will describe standard features required for functional at-grade
      enclosure covers.
   b. Boxes – will describe function and accessories for the enclosures.
   c. Extensions – will describe matching extensions to increase the depth of
      the enclosure for grade changes, etc.
   d. Materials qualifications – will include requirements for resistance to acids,
      bases and petroleum products, UV resistance, water absorption,
      flammability, etc.
   e. Performance and strength requirements – will provide load standards,
      strength factors and testing criteria (ref. to ACI 548.7).

C. Execution