

AGENDA

PTI TAB Technical Advisory Board

Monday, May 6, 2018, 1:30 PM – 5:30 PM

Hyatt Regency Seattle, Seattle WA – Room 605 Snohomish

Voting Members Present (X of 12)

Don Kline, Chair	Kline Engineering & Consulting
Miroslav Vejvoda, Secretary	PTI Staff, NV
Rashid Ahmed	Walker Parking Consultants
Asit Baxi	Baxi Engineering, Inc.
Martin Cuadra	Uzum+Case, LLC
Carol Hayek	CCL USA
Don Illingworth	Don Illingworth & Assoc., Inc.
Bill Klorman	Klorman Construction
Cary Kopczynski	Cary Kopczynski & Co.
Doug Schlegel	Consultant
Andrea Schokker	University of Minnesota Duluth
Mike Schwager	Schwager Davis, Inc.
Edgar Zuniga	Dywidag Systems International USA

Visitors

SUMMARY OF ACTION ITEMS FROM LAST / THIS MEETING

Item #	Subject	Action	Responsible	Deadline / Completed
1	Splitting of ACI 318-G	Provide reasons / justification for split and nominate a Chair for the PT subcommittee	All	March 18, 2019
2	ACI Technical Session 2020 Chicago	Propose speakers (yourself, others) and presentation subjects / titles	All	March 18, 2019
3	Ballot: Paper Award	Propose paper(s) for paper award	All	March 24, 2019
4	Ballot: M10.2 & M10.6 Addendum	Review/approve Addendum	All	March 24, 2019
5	TCM Update	Prepare proposed changes	Staff	Ballot start April 1, 2019
6	PT Manual	Continue balloting / resolving one chapter per month	All	Ongoing

Item #	Expected Outcome / Actions Taken
<p>A – General</p> <p>A.1 Call to order</p> <p>A.2 Introduction / Announcements</p> <p>A.3 TAB Roster / Membership Rotation</p> <p>TAB Member Rotation:</p> <ul style="list-style-type: none"> • 2019: Baxi, Kopczynski (2003, 2003) • 2020: Ahmed, Schlegel (2003, 2008) • 2021: Kline, Zuniga (2008, 2012) • 2022: Hayek (2012) • 2023: Klorman, Illingworth (2014, 2015) • Member rotation per TCM <p>The list of potential TAB candidates (no particular order):</p> <ul style="list-style-type: none"> • Hamid Ahmady • Bob Sward (Chair M-50) • Jack Graves (Officer) • Drew Micklus • Frank Malits • Jonathan Hirsch • Greg Hunsicker • Martin Maingot • Jim Donnelly <p>A.4 Attendance Sheet / PTI Antitrust Policy (Exhibit A.4)</p> <p>A.5 Committee Annual Reports</p>	<p>A.1 Meeting was called to order at X pm.</p> <p>A.2</p> <p>A.3 The official TAB roster is on the PTI website.</p> <p>TAB Member rotation: After the 2019 fall meeting, Asit Baxi and Cary Kopczynski will end their term on TAB.</p> <p>TAB Members: Ongoing list of potential TAB candidates</p> <ul style="list-style-type: none"> • TAB member suggestions • TAB Chair selects candidates • EC reviews nominations and appoints new TAB members • Newly appointed TAB members are invited to the fall TAB meeting as observers • Appointment becomes effective after the fall meeting <p>A.4 All present are reminded of the PTI Antitrust Policy and asked to sign the Attendance Sheet to attest knowledge of and compliance with the policy.</p> <p>A.5 The Annual Reports will be attached to the fall committee meeting agenda of all committees and sent to TAB by the end of October.</p>
<p>B. Agenda & Minutes (Closed Meeting)</p> <p>B.1 <u>Approval of Agenda</u></p> <p>B.2 <u>Approval of Meeting Minutes</u> (Meeting ballot required)</p> <p>B.2.2 Approval of Winter Web Meeting Notes from 9-27-18, distributed on 5-2-19.</p>	<p>B.1 Changes to the agenda: ?</p> <p>B.2.1 Motion / Second to approve Meeting Minutes from 9-27-18: Name / Name, 0-0-0 (Y-N-A)</p>

Item #	Expected Outcome / Actions Taken
<p>B.2.2 Approval of Winter Web Meeting Notes from 3-14-19, distributed on 3-14-19.</p>	<p>B.2.2 Motion / Second to approve Meeting Notes from 3-14-19: Name / Name, 0-0-0 (Y-N-A)</p>
<p>C. Actions Taken Between Meetings (Closed Meeting)</p> <p>C.1 <u>Letter Ballots</u> C.1.1 Ballot-TAB-1901: Addenda M10.2 & M10.6, Ballot End 2-4-19</p> <p>C.1.2 Ballot-TAB-1902: Addenda M10.2 & M10.6, Ballot End 3-24-19</p> <p>C.1.3 Ballot-TAB-1903: 2019 Paper Awards, End 3-24-19</p> <p>C.1.4 Ballot-TAB-1804: PT Manual Chapter 19-Durability, Ballot End 5-4-19</p> <p>C.1.5 Ballot-TAB-1805: M-55 Chair Selection, Ballot End 4-25-19</p> <p>C.2 <u>Web Meetings</u> C.2.1 Winter WM on 3-14-19</p>	<p>C.1.1 <u>Ballot-TAB-1901: Addenda M10.2 & M10.6</u> Insufficient number of ballots received; reballoted TAB-1902</p> <p>C.1.2 <u>Ballot-TAB-1902: Addenda M10.2 & M10.6</u> 6-1-0-5 (Y-N-A-Not returned); 1 negative resolved editorially with 8-0-0-4; Final wording (Exhibit C.1.2)</p> <p>C.1.3 <u>Ballot-TAB-1903: 2019 Paper Awards</u> 8-0-0-4 (Y-N-A-Not returned) participation. Papers and votes received are in (Exhibit C.1.3)</p> <p>C.1.4 <u>Ballot-TAB-1804: PT Manual Chapter 19-Durability</u></p> <p>C.1.5 <u>Ballot-TAB-1805: M-55 Chair Selection</u> 0-0-0-0 (Y-N-A-Not returned). Results are in (Exhibit C.1.5)</p> <p>C.2 Web meeting notes are Item B.2.2</p>
<p>1. Technical Committee Personnel (Closed Meeting)</p> <p>1.1 <u>Technical Committee Chairs</u></p> <p>1.2 <u>Technical Committee Members</u></p> <p>1.3 <u>Technical Committee Missions</u></p>	<p>1.1 Current Chairs (Exhibit 1.1)</p> <p>1.2</p> <p>1.3 Current technical committees' missions (Exhibit 1.3)</p>
<p>2. New TAB Initiatives (Closed Meeting)</p> <p>2.1 Tendons banded in both directions</p> <p>2.2 Intermediate Couplers at the construction joint (Rashid Ahmed)</p>	<p>2.1 Agreement Bekaert-PTI – Sub-license agreement; final go ahead from EC received; final preparations for agreement execution. Status report – Tim Christle</p> <p>2.2 Since there is only one supplier for PT components, the only option that designer has at construction joint is to use the</p>

Item #	Expected Outcome / Actions Taken
2.3 Post-Tensioned Parking Structures (Rashid Ahmed)	<p>couplers. Is there any issue with this option?</p> <ul style="list-style-type: none"> • Is the steel inside the coupler enough to account for the concrete loss? • Do we have pre-compression across the joint? Should additional reinforcement be provided at the construction joint as shear friction reinforcement? • Are there any alternatives such as tendon overlap? (Staff) <p>2.3 I have heard multiple times at the Board meetings that PT is losing market in the parking industry. What should we do?</p> <p>I would recommend forming a PTI Parking Structures Committee for the following reasons:</p> <ul style="list-style-type: none"> • Parking are unique structures and have higher durability and maintenance requirements • ACI and PCI have dedicated committees on Parking Structures and publish documents on design and maintenance. • At the last ACI convention, ACI TAC have approved that the ACI 362 committee can write 'Standards' instead of 'Guidelines.' This will make the document a requirement rather than the recommendation. PTI Parking Committee can provide input to the ACI 362 committee. • Market PT parking garages as an industry. (Neel Khosa)
2.4 ACI 318 (Don Kline)	<p>2.4 ACI 318 Items:</p> <ul style="list-style-type: none"> • Does ACI 318 Section 8.6.2.3 on minimum bonded deformed reinforcement in prestressed slabs (.00075Acf) apply to drop caps? Some engineers interpret Acf to include the area of drops. FAQ 10 by Ken Bondy does not include the area of drop caps in Acf and he feels strongly that it should not be included. Should ACI 318 be clarified? • When designing a 2-way PT slab with continuous wide shallow drops in one direction, does Acf include the area of the drop when calculating minimum bonded rebar in the distributed PT direction? A strict interpretation of the code would say that the area of the drop should be included. What is standard practice by designers? Should this provision be revisited? • When designing a 2-way PT slab with continuous wide shallow drops in one direction, is the area of the drop included in the calculation of minimum $P/A=125\text{psi}$? A strict interpretation of the code would include the area of the drop. This penalizes 2-way slabs with continuous wide shallow drops. What is standard practice by designers? Should this provision be revisited?
2.5 PTI Positions on important subjects:	2.5

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<ul style="list-style-type: none"> • ACI 318: Unified PTI position on 318-G and 318 ballots • Restrained vs. unrestrained conditions in 2-way slabs • Other important items? <p>2.6 Accelerated Construction</p> <ul style="list-style-type: none"> • Bridges: ABC; precast • Buildings: Peikko; modular; CLT (Cross-Laminated Timber) <p>2.7 Other Initiatives?</p>	<p>2.6</p> <p>2.7</p>
<p>3. Relations with other Organizations (Closed Meeting)</p> <p>3.1 <u>ACI</u></p> <p>3.1.1 ACI 301, Specification for Structural Concrete</p> <p>3.1.2 ACI 318, Structural Concrete Building Code</p> <p>3.1.3 ACI 350, Environ. Eng. Conc. Structures</p> <p>3.1.4 ACI 362, Parking Structures</p> <p>3.1.5 ACI 423, Prestressed Concrete</p> <p>3.2 <u>ICRI</u></p> <p>3.3 <u>IBC</u></p> <p>3.4 <u>AISC</u></p> <p>3.5 <u>ASCE</u></p> <p>3.6 <u>ASBI</u></p> <p>3.7 <u>TRB</u></p> <p>3.8 <u>FIB</u></p> <p>3.9 <u>CSA</u></p>	<p>3.1.1 ACI 301:</p> <p>3.1.2 ACI 318:</p> <ul style="list-style-type: none"> • Potential splitting of 318-G into precast-prestressed and post-tensioned concrete. • Potential specialty dependent codes; PCI, PTI, etc. <p>3.1.3 ACI 350:</p> <p>3.1.4 ACI 362:</p> <p>3.1.5 ACI 423:</p> <p>3.2</p> <p>3.3 Barrier Cable</p> <p>3.4</p> <p>3.5</p> <p>3.6</p> <p>3.7</p> <p>3.8</p> <p>3.9</p>

Item #	Expected Outcome / Actions Taken
3.10 <u>ACCS</u> 3.11 <u>Contacts to Spec Writing Agencies</u>	3.10 3.11
4. Technical Committee Procedures (Closed Meeting) 4.1 Technical Committee Manual 4.2 Post-Tensioning Terminology (PTT) 4.3 Membership Appointment Procedures	4.1 4.2 4.3
5. Technical Committee Affairs (Open Meeting) 5.1 Changes to Committees 5.2 Committees' Annual Reports 5.3 TAB Contact Assignments M-10: Rashid Ahmed M-50 Edgar Zuniga M-55: Andrea Schokker DC-10: Don Illingworth DC-20: Carol Hayek DC-35: Asit Baxi DC-40: Mike Schwager DC-45: Mike Schwager DC-80: Don Kline	5.1 Current committees are in (Exhibit 5.1) 5.2 Committee are asked to submit the Annual Reports by the end of October. 5.3 There is no need for TAB contact for subcommittees or TGs. When TAB members retire, and new ones join, the TAB contact assignments will be reviewed and revised accordingly.
6. Technical Committee Documents (Open Meeting) 6.1 <u>Existing PTI Technical Documents</u> 6.2 <u>New / Proposed PTI Technical Documents</u> 6.2.1 TAB.1 PT Manual <ul style="list-style-type: none"> • Review progress • Make/confirm assignments with deadlines • Balloting plan with dates • Chapter Primary Reviewers 	6.1 Existing documents list is in (Exhibit 6.1) 6.2 Proposed documents list is in (Exhibit 6.2) 6.2.1 PT Manual The process for TAB review of chapters: <ul style="list-style-type: none"> • Ballots 30 days; two chapters at a time • Schedule regular web meetings • Ballot reminders; 2W, 1W, 3D (web balloting) • For each chapter, there are 2 TAB Primary Reviewers • Outside reviewers can be added if needed. Some

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<p>It is becoming critical to publish the 7th edition of the PT Manual in the near future. A plan to publication should be prepared, possibly considering omitting some of the (new) chapters. Continuing the balloting plan, the new target for completion is summer 2020.</p> <p>6.3 TAB Document Review</p>	<p>committees such as DC-20 and DC-80 may have volunteers to review respective chapters.</p> <p>Balloted chapters:</p> <ul style="list-style-type: none"> • <p>Next chapters:</p> <ul style="list-style-type: none"> • <p>6.3 Other documents are coming to TAB for review:</p> <ul style="list-style-type: none"> • • Technical content of webinars (DC-20, EDU-130, DC-80)
<p>7. Other Publications (Open Meeting)</p> <p>7.1 New PTI Technical Notes?</p> <p>7.2 New PTI FAQs?</p> <p>7.3 Sustainability</p>	<p>7.1 Technical Notes nearing completion:</p> <ul style="list-style-type: none"> • Temperature Tendons: • Restraint to Shortening: <p>7.2</p> <p>7.3</p>
<p>8. Conventions and Other Meetings (Open Meeting)</p> <p>8.1 2019 Technical Sessions</p> <p>8.2 2019 Committee Chair Luncheon</p> <p>8.3 PTI & TAB Awards</p> <p>8.4. New PTI Website</p>	<p>8.1</p> <p>8.2</p> <p>8.3</p> <p>8.4</p>
<p>9. Educational Items</p> <p>9.1 Excerpt from the Strategic Plan:</p> <ul style="list-style-type: none"> • Revise and update documents older than 6 years • Revise and update FAQs and TNs older than 4 years • Develop library of selected FAQs with focus on PTI position on all PT applications • Identify research needs for PT • Solicit support from stakeholders for financing, per project 	<p>9.1 Coordination with the Education Committee; Professor's Seminar – TAB recommendations:</p>

Item #	Expected Outcome / Actions Taken
<ul style="list-style-type: none"> Develop a course for PTI Building Design and compile required webinar modules and course materials Develop a course for PT SOG Design and compile required webinar modules and course materials 	
D. New Business (Open Meeting) D.1 Any New Business?	D.1
E. Next Meeting E.1 TAB Summer WM? E.2 PTI Committee Days, Santa Fe, NM, October 1-4, 2019 E.3 Web Meetings	E.2 E.3
F. Adjourn	F. Meeting adjourned at .

AGENDA / MINUTES EXHIBITS

Exhibit #	Subject
A.4	PTI Antitrust Policy / Sign-in Sheet

Web Meeting Notes

TAB, Technical Advisory Board – Web Meeting

March 14, 2019, 3:00 PM – 5:00 PM

Voting Members Present (8 of 12)

<u>Don Kline</u> , Chair	Kline Engineering & Consulting
<u>Miroslav Vejvoda</u> , Secretary	PTI Staff, NV
<u>Rashid Ahmed</u>	Walker Consultants
<u>Asit Baxi</u>	Baxi Engineering, Inc.
Martin Cuadra	Uzun+Case, LLC
<u>Carol Hayek</u>	CCL USA
<u>Don Illingworth</u>	Don Illingworth & Assoc., Inc.
Bill Klorman	Klorman Construction
Cary Kopczynski	Cary Kopczynski & Co.
<u>Doug Schlegel</u>	Consultant
<u>Andrea Schokker</u>	University of Minnesota Duluth
<u>Mike Schwager</u>	Schwager Davis Inc.
Edgar Zuniga	Dywidag Systems International USA

ACTION ITEMS FROM LAST / THIS MEETING

Item #	Subject	Action	Responsible	Deadline / Completed
1	Splitting of ACI 318-G	Provide reasons / justification for split and nominate a Chair for the PT subcommittee	All	March 18, 2019
2	ACI Technical Session 2020 Chicago	Propose speakers (yourself, others) and presentation subjects / titles	All	March 18, 2019
3	Ballot: Paper Award	Propose paper(s) for paper award	All	March 24, 2019
4	Ballot: M10.2 & M10.6 Addendum	Review/approve Addendum	All	March 24, 2019
5	TCM Update	Prepare proposed changes	Staff	Ballot start April 1, 2019
6	PT Manual	Continue balloting / resolving one chapter per month	All	Ongoing

Items discussed:

People Awards

TAB voted on TAB Awards as follows (**Y-N-A; 8-0-0**)

- Most active committee Chair: No award
- Most active committee member: Greg Hunsicker
- Fellows: TAB nomination for EC approval: Jonathan Hirsch

Paper award: All asked to review papers from the past journals, especially from the two issues in 2018.
TAB Ballot on Paper award, ending Sunday, March 24, 2019

Unbonded Tendons Specs M10.2 & M10.6

Changes to M10.2 reflected in Addendum No. 1 were discussed. Especially the relaxation testing of prestressing steel may generate resistance from ACI 423 members. The goal is to match PTI M10.2 and ACI 423.7 as close as possible.

This addendum was previously balloted by TAB, Ballot 1901, but the ballot did not pass as insufficient number of ballots was returned.

TAB Ballot on M10.2 Addendum No. 1, ending Sunday, March 24, 2019.

Splitting of ACI 318-G

Splitting of ACI 318-G was proposed by Bill Klorman but not considered by ACI 318 due to timing.

If a split is desirable, the following steps are needed:

- Communicate with new Chair Andy Taylor
- List of reasons for splitting

TAB agreed on proposing splitting ACI 318-G by vote, **Y-N-A; 7-0-1**

TAB members are asked to provide by end of Monday, March 18, 2019:

- List of reasons / justification to support splitting 318-G
- Proposed Chair for PT subcommittee

TCM Updates

The TCM requirements for TGs and voting members were discussed. An update of the TCM will go to TAB ballot to be completed before the Seattle meetings; it will include:

- Proper reflection of rules for TGs
 - Limit size of TGs to 5
 - Limit TG task to one short-term task
 - Encourage TGs to work per web meetings and outside of meetings at Conventions and Committee Days
- Strengthen language for Voting Membership requirements
 - Automatic change to Associate Membership if VM requirements not met
 - Automatic review of membership participation with tracked records

PT Manual

The PT Manual chapter ballots are necessary to accomplish publication in 2020 as scheduled; there are only a few copies of the current Manual and a reprint of a small quantity would not be economical.

Especially Primary TAB Reviewers are encouraged to do their reviews within the ballots' time frame.

PTI Website

The new PTI website is up and running and can be used for balloting, document posting on website, etc. Instructions on the website use will be part of the Chair Luncheon in Seattle.

Education

An ACI Technical Session (probably for Chicago Spring 2020) with ACI 423 sponsorship was discussed. ACI 423 Chair, Jeff Volz, is fully supporting the initiative. The idea is to have a PT only session with no precast presentations.

It is envisioned that the session would be on PT design subjects, probably predominantly on buildings, but also on bridge subjects, with presenters from TAB and selected DC-20 members. There was a strong support of the session with up to 5 PT-related presentations.

Although Preliminary Requests to ACI do not need all speakers and presentations, the more information is provided, the greater the chances are to get acceptance of the session.

TAB members are asked to provide by end of Monday, March 18, 2019:

- Proposed speakers
- Proposed presentation subjects / titles

PTI Position on Important Subjects

It was previously suggested and agreed that TAB should discuss and develop positions on important industry subjects. A list of such items should be drafted for future discussions.

The current important subject is the fact that the one remaining supplier of PT components has decided to discontinue the intermediate stressing anchorages. This has a large impact on the industry for these reasons:

- The designer is limited in design of construction joints to a coupler instead of the intermediate stressing anchorage as options.
- There is only the much more expensive coupler available for construction joints; this may have impact on competitiveness of PT, especially in parking structures where the precast option is a very strong competitor.

There is some concern that a pressure might be put on the committees, especially ACI 423 but also PTI M-10, to limit the options for new products and design, particularly the items below. Some PT companies might be reluctant to vote against their only supplier of components. Both of these items might be put in negative light, utilizing durability as argument where installation QC may be lacking.

- Disallow intermediate stressing anchorages
- Disallow transition sleeves

Accelerated Construction

No time was left to discuss this item.

Minutes

PTI TAB Technical Advisory Board

Thursday, September 27, 2018, 8:00 AM – 12:00 PM

The Antlers Wyndham Hotel, Colorado Springs, CO – Room Heritage Ballroom A

Voting Members Present (6 of 12)

<u>Don Kline</u> , Chair	Kline Engineering & Consulting
<u>James Cagley</u> , Vice Chair	Cagley & Associates
<u>Miroslav Vejvoda</u> , Secretary	PTI Staff, NV
Rashid Ahmed	Walker Parking Consultants
<u>Asit Baxi</u>	Baxi Engineering, Inc.
John Crigler	VSL
<u>Carol Hayek</u>	CCL USA
Don Illingworth	Don Illingworth & Assoc., Inc.
Bill Klorman	Klorman Construction
Cary Kopczynski	Cary Kopczynski & Co.
<u>Doug Schlegel</u>	Consultant
Andrea Schokker	University of Minnesota Duluth
<u>Edgar Zuniga</u>	Dywidag Systems International USA

Visitors

SUMMARY OF ACTION ITEMS FROM LAST / THIS MEETING

Item #	Subject	Action	Responsible	Deadline / Completed
1.1	DC-20 BIM Subcommittee	Contact Frank Malits for interest in chairing	Staff	Done
1.3.1	DC-20 BIM Subcommittee	Prepare a PP presentation on BIM	Bill Klorman	September 15, 2018
3.1.2	Splitting of ACI 318-G	Compile list of reasons for splitting 318-G to be sent to Jack Moehle before 318 meeting in Las Vegas; members to send suggestions to Bill	Bill Klorman; All	September 30, 2018
4.1	TCM Updates	Review draft changes; propose additional changes	All	September 15, 2018
5.3	TAB Contacts	Contact your committee Chair for discussion of committee activities	TAB Contact Members	Ongoing
6.2.1	PT Manual	Ballot chapters; start with 2 chapters	Staff	July 27, 2018
8.4	New PTI Website	Prepare presentation to introduce the website features with focus on the committee user	Staff	Before PTI Committee Days
9.1	Educational Items	Review and prepare for a discussion on this topic from the Strategic Plan	All	Before PTI Committee

				Days
D.1	PTI Position on Important Subjects	Review and prepare for a discussion on this topic	All	Before PTI Committee Days
D.2	Accelerated Construction	Review and prepare for a discussion on this topic	All	Before PTI Committee Days

Item #	Expected Outcome / Actions Taken
<p>A – General</p> <p>A.1 Call to order</p> <p>A.2 Introduction / Announcements</p> <p>A.3 TAB Roster / Membership Rotation</p> <p>Membership Rotation:</p> <ul style="list-style-type: none"> • 2018: Rotate 2 members: Crigler, Cagley (2003, 2003) • 2019: Baxi, Kopczynski (2003, 2003) • 2020: Ahmed, Schlegel (2003, 2008) • 2021: Kline, Zuniga (2008, 2012) • 2022: Hayek (2012) • 2023: Klorman, Illingworth (2014, 2015) <p>The list of potential TAB candidates (no particular order):</p> <ul style="list-style-type: none"> • Martin Cuadra - Joining • Mike Schwager - Joining • Hamid Ahmady • Bob Sward (Chair M-50) • Jack Graves (Officer) • Drew Micklus • Frank Malits • Jonathan Hirsch • Greg Hunsicker • Martin Maingot • Jim Donnelly <p>Newly appointed TAB members should attend the fall meeting as observers; outgoing TAB members should rotate off TAB after the fall meeting.</p> <p>A.4 PTI Antitrust Policy</p>	<p>A.1 The meeting was called to order at 8:30 am.</p> <p>A.2</p> <p>A.3 The official TAB roster is on the PTI website.</p> <p>TAB Member rotation: After the 2018 fall meeting, Jim Cagley and John Crigler will end their term on TAB. TAB recognizes their long-term contributions to the committee.</p> <p>New TAB Members:</p> <ul style="list-style-type: none"> • Martin Cuadra and Mike Schwager have accepted invitation to join TAB after the 2018 fall meeting. • TAB will be notified when EC confirms the appointments. <p>Other potential candidates: Additional potential candidates added to the list: Greg Hunsicker, Martin Maingot, Jim Donnelly.</p> <p>Martin Cuadra and Mike Schwager have been invited to join TAB at the Colorado Springs meeting this fall. Mike is unable to make it due to a 70th birthday celebration of his father and PTI Legend Guido Schwager.</p>

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<p>(Exhibit A.4)</p> <p>A.5 Committee Annual Reports</p>	<p>A.4 All present are reminded of the PTI Antitrust Policy.</p> <p>A.5 The Annual Reports will be attached to the fall committee meeting agenda of all committees and sent to TAB by the end of October.</p>
<p>B. Agenda & Minutes (Closed Meeting)</p> <p>B.1 <u>Approval of Agenda</u></p> <p>B.2 <u>Approval of Meeting Minutes</u> (Meeting ballot required)</p> <p>B.2.1 Approval of Summer Web Meeting Minutes from 7-26-18, distributed on 7-27-18.</p>	<p>B.1 Changes to the agenda: none</p> <p>B.2.1 Motion / Second to approve Meeting Minutes from 7-27-18: Schlegel / Ahmad, 6-0-1 (Y-N-A)</p>
<p>C. Actions Taken Between Meetings (Closed Meeting)</p> <p>C.1 <u>Letter Ballots</u></p> <p>C.1.1 Ballot-TAB-1802: PT Manual Chapters 5&9, Ballot End 8-27-18</p> <p>C.1.2 Ballot-TAB-1803: M55.1 Grouting Spec, Ballot End 9-20-18</p> <p>C.1.3 Ballot-TAB-1804: M50.3 Multistrand PT Spec, End 9-20-18</p> <p>C.1.4 Ballot-TAB-1805: PT Manual Chapters 14&15, Ballot End 9-30-18</p> <p>C.1.5 Ballot-TAB-1806: DC10.5 Standard, Ballot End 10-15-18</p> <p>C.2 <u>Web Meetings</u></p> <p>C.2.1 Summer WM on 7-26-18</p>	<p>C.1.2 Ballot will be extended.</p> <p>C.1.3 Ballot will be extended.</p> <p>C.1.4 The PT Manual reviews should continue as agreed:</p> <ul style="list-style-type: none"> • 2 TAB primary reviewers • Outside reviewers as needed • Subject committee representatives as outside reviewers as needed • Tab WM (all) review results of ballots; the chapter author(s) to be invited to this web meeting <p>C.1.5 Industrial floors: TAB TG: Asit, Carol, MV, Don, someone from DC-10 (Jack), possibly Ken Bondy to review existing old document and make recommendations for items to address Sports courts: Jack Graves will propose how this document will be updated</p>

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<p>1. Technical Committee Personnel (Closed Meeting)</p> <p>1.1 <u>Technical Committee Chairs</u></p> <p>1.2 <u>Technical Committee Members</u></p> <p>1.3 <u>Technical Committee Missions</u></p> <p>1.3.1 DC-20A BIM Subcommittee</p>	<p>1.1 Current Chairs (Exhibit 5.1 - Attached to the meeting minutes from Minneapolis) BIM Subcommittee of DC-20: Frank Malits appointed</p> <p>1.2</p> <p>1.3 Current technical committees' missions (Exhibit 1.3 - Attached to the meeting minutes from Minneapolis)</p> <p>1.3.1 The efforts of DC-20A with the new Chair focus on two items:</p> <ul style="list-style-type: none"> • Finalize the new BIM chapter of the PT Manual • Create the PT related Industry Foundation Classes (IFC) and work with ACI 131 (BIM of Concrete Structures) to incorporate it in that document. PTI EC endorsement of this approach will be requested. • General • Annual report and review of membership
<p>2. New TAB Initiatives (Closed Meeting)</p> <p>2.1 Tendons banded in both directions</p> <p>2.2 Other Initiatives?</p>	<p>2.1 Status report – Tim Christle Agreement Bekaert-PTI – Sub-license agreement was drafted by Bekaert. It was reviewed, and proposed changes sent to Bekaert. Their response was just received. The EC including the legal counsel will review the contract before PTI is authorized to sign it.</p> <p>2.4</p>
<p>3. Relations with other Organizations (Closed Meeting)</p> <p>3.1 <u>ACI</u></p> <p>3.1.1 ACI 301, Specification for Structural Concrete</p> <p>3.1.2 ACI 318, Structural Concrete Building Code</p> <p>3.1.3 ACI 350, Environ. Eng. Conc. Structures</p>	<p>3.1 Ted Neff is a 301 PT subcommittee Chair and a 423 TG lead on performance-based specification. PTI will notify the main committee Chairs that Ted no longer represents PTI; but he can continue his roles, of course, if he so desires.</p> <p>3.1.2 Splitting of 318-G? What action is necessary? Bill to draft list of reasons and send it to ACI 318 Chair, Jack Moehle, a few days before the convention. All to contribute by sending possible reasons to Bill by the end of September.</p> <p>3.1.3 TAB members reported that unbonded tendons are used for repair of wire wrapped tanks. This should be documented in</p>

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<p>3.1.4 ACI 362, Parking Structures</p> <p>3.1.5 ACI 423, Prestressed Concrete</p>	<p>Job Reports to be able to show existing deficiencies of wire wrapped tanks and the suitability of unbonded tendons as circumferential PT.</p> <p>Another suggestion was to try to split the 350-E Precast-Prestress subcommittee.</p> <p>3.1.4</p> <p>3.1.5 Strand relaxation testing is required to be performed or observed and certified by an independent testing agency, per ACI 423.7-14 and PTI M10.2-17. Questions were raised about this requirement as most strand suppliers are currently doing it in house, without independent observation by others. This puts the PT suppliers potentially at risk.</p> <p>This came up as a negative vote on the Plant Certification Manual updates. M-10 has started a TG to investigate how this requirement got into the specs (it was not in the previous versions of the ACI and PTI specifications).</p> <p>The TG proposed removing the independent observation and confirmation of the strand relaxation testing from M10.2. This was balloted by M-10 and the ballot passed, with comments resolved at this M-10 meeting. The PTI legal counsel was present and pointed out that since the current specification requires the independent lab to be accredited by ASTM C1077, which no is not applicable, the requirement is unenforceable. This makes it less critical for now.</p> <p>The TG discussed the best approach in getting new PTI M10.2 modified requirement to ACI 423.7. It was decided to bring it in only after the PTI spec is published (after TAB and public review) and when there is a chance for it to be accepted at 423 (currently the new edition is likely closed for new business).</p>
<p>3.2 <u>ICRI</u></p>	
<p>3.3 <u>IBC</u></p>	<p>3.3 Barrier Cable</p>
<p>3.4 <u>AISC</u></p>	
<p>3.5 <u>ASCE</u></p>	
<p>3.6 <u>ASBI</u></p>	<p>3.6 Randy Cox will retire and Gregg A. Freeby from TXDOT will replace him. This should not affect the PTI-ASBI relationship or the course of ASBI. The EC debated the M-50 joint TG without an MOU with ASBI. Since all the document sales are on the PTI side, without any participation payment to ASBI, it may be better to keep the setup as is. This may have to be reconsidered if the</p>

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<p>3.7 <u>TRB</u></p> <p>3.8 <u>FIB</u></p> <p>3.9 <u>CSA</u></p> <p>3.10 <u>ACCS</u></p> <p>3.11 <u>Contacts to Spec Writing Agencies</u></p>	<p>new ASBI Manager takes a different approach.</p> <p>3.8 Ted Neff is the Commission 5 – Reinforcement Chair. The next meeting takes place in Australia in the beginning of October. PTI notified <i>fib</i> that Ted no longer represents PTI; but he can continue his roles, of course, if he so desires. The EC wants PTI's <i>fib</i> participation, ACI, PCI, etc. participation be removed from the future Executive Director's tasks.</p> <p>3.10 Framework, the first wood high-rise building in the US (Portland, OR) has been placed on hold for the foreseeable future. The stated reasons were: Changing market conditions over the past two years including inflation, escalating construction costs, and fluctuations in the tax credit market, all affecting the project's bottom line.</p> <p>Another article showed some technical issues, ENR Northwest, September 5, 2018: 'Regluing' Oregon State's Showcase for Mass Timber.</p>
<p>4. Technical Committee Procedures (Closed Meeting)</p> <p>4.1 Technical Committee Manual</p> <p>4.2 Post-Tensioning Terminology (PTT)</p>	<p>4.1 A draft with changes reflecting the new committee and TG arrangement was prepared by staff. (Exhibit 4.1)</p> <p>Amy Dowel presented the main proposed changes:</p> <ul style="list-style-type: none"> • Committee organization with new focus on TGs • Committee membership <ul style="list-style-type: none"> ○ possibly limiting number of committees ○ restricted committee membership for selected committees ○ committee membership participation and terminations ○ committee roster credit in documents • Committee meetings including requests necessary from TGs and subcommittees <p>TAB members are asked to review the draft changes and make overall suggestions regarding:</p> <ul style="list-style-type: none"> • The proposed changes • Any other possible changes <p>Any suggestions obtained will be discussed at the Colorado Springs meeting and the TCM will be balloted after the meeting.</p>

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4.3 Membership Appointment Procedures	
<p>5. Technical Committee Affairs (Open Meeting)</p> <p>5.1 Changes to Committees</p> <p>5.2 Committees' Annual Reports</p> <p>5.3 TAB Contact Assignments M-10: Rashid Ahmed M-50 Edgar Zuniga M-55: Andrea Schokker DC-10: Don Illingworth DC-20: Hayek DC-35: Asit Baxi DC-40: Mike Schwager DC-45: Mike Schwager DC-80: Don Kline</p>	<p>5.1 Current committees are in (Exhibit 5.1 - Attached to the meeting minutes from Minneapolis)</p> <p>5.2 Committee are asked to submit the Annual Reports by the end of October.</p> <p>5.3 Updated TAB Contact Members are reflected on the left. There is no need for TAB contact for TGs. When TAB members retire, and new ones join, the TAB contact assignments will be reviewed and revised accordingly.</p>
<p>6. Technical Committee Documents (Open Meeting)</p> <p>6.1 <u>Existing PTI Technical Documents</u></p> <p>6.2 <u>New / Proposed PTI Technical Documents</u></p> <p>6.2.1 TAB.1 PT Manual</p> <ul style="list-style-type: none"> • Review progress • Make/confirm assignments with deadlines • Balloting plan with dates • Chapter Primary Reviewers <p>It is becoming critical to publish the 7th edition of the PT Manual in the near future. A plan to publication should be prepared, possibly considering omitting some of the (new) chapters. Continuing the balloting plan, the new target for completion is summer 2020.</p> <p>6.3 TAB Document Review</p>	<p>6.1 Existing documents list is in (Exhibit 6.1 - Attached to the meeting minutes from Minneapolis)</p> <p>6.2 Proposed documents list is in (Exhibit 6.2 - Attached to the meeting minutes from Minneapolis)</p> <p>6.2.1 PT Manual</p> <p>The process for TAB review of chapters:</p> <ul style="list-style-type: none"> • Ballots 30 days; two chapters at a time • Schedule regular web meetings • Ballot reminders; 2W, 1W, 3D • For each chapter, there are 2 TAB Primary Reviewers • Outside reviewers can be added if needed. Some committees such as DC-20 and DC-80 may have volunteers to review respective chapters. <p>Balloted chapters:</p> <ul style="list-style-type: none"> • 5 (Analysis and Design) & 9 (Floor Framing Systems) • 14 (Storage Structures) & 15 (Rock and Soil Anchors) <p>Next chapters:</p> <ul style="list-style-type: none"> • <p>6.3 Some other documents are coming to TAB for review:</p>

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	<ul style="list-style-type: none"> • Technical Note: Dual Banded PT Tendon Layout; DC-20 ballot ended 9-26-18; next step is TAB review. • Technical content of webinars (DC-20, EDU-130, DC-80)
<p>7. Other Publications (Open Meeting)</p> <p>7.1 New PTI Technical Notes?</p> <p>7.2 New PTI FAQs?</p> <p>7.3 Sustainability</p>	<p>7.1 Technical Notes nearing completion:</p> <ul style="list-style-type: none"> • Temperature Tendons: Completed; will go to DC-20 ballot first (2 reviews – committee and TAB) • Restraint to Shortening: Christle: After the Colorado meeting, a final draft will be assembled and issued for ballot to DC-20. The overall goal is to publish the full, updated DC20.2-19 in the 1st quarter of 2019. <p>7.3 Carol Hayek: A draft document for ACI 423 was for precast and PT; later separated PT from precast, as the precast side withdrew. There are the same issues as on 318-G, with competing industries blocking progress. Examples were taken out, benefits of systems, ETDs, etc. The strand data is still missing. This will be a ACI 423 document. On the PTI side, only the new Sustainability Chapter is being drafted for the PT Manual.</p>
<p>8. Conventions and Other Meetings (Open Meeting)</p> <p>8.1 2018 Technical Sessions More requests were obtained than available time slots; however, too many relatively late, preventing a selection process to select the best.</p> <p>8.2 2019 Committee Chair Luncheon</p> <p>8.3 PTI & TAB Awards</p> <p>8.4. New PTI Website</p>	<p>8.4 A presentation will be organized at the 2018 PTI Committee Days in Colorado Springs to introduce the website and the committee features from the users' perspective.</p>
<p>9. Educational Items</p> <p>9.1 Excerpt from the Strategic Plan:</p> <ul style="list-style-type: none"> • Revise and update documents older than 6 years • Revise and update FAQs and TNs older than 4 years • Develop library of selected FAQs with focus on PTI position on all PT applications 	<p>9.1 Coordination with the Education Committee; Professor's Seminar – TAB recommendations:</p> <p>This item will be discussed in detail during the TAB meeting in Colorado Springs. Members are asked to review this topic and be prepared for a discussion. In general, TAB supports PTI participation in the Professor's Seminar.</p>

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<ul style="list-style-type: none"> • Identify research needs for PT • Solicit support from stakeholders for financing, per project • Develop a course for PTI Building Design and compile required webinar modules and course materials • Develop a course for PT SOG Design and compile required webinar modules and course materials 	
<p>D. New Business (Open Meeting)</p> <p>D.1 PTI Positions on important subjects</p> <ul style="list-style-type: none"> • ACI 318: Unified PTI position on 318-G and 318 ballots • Restrained vs. unrestrained conditions in 2-way slabs • Other important items? <p>D.2 Accelerated Construction</p> <ul style="list-style-type: none"> • Bridges: ABC • Buildings: Peikko <p>D.3 Barrier Cable</p> <p>D.4 New PTI Website</p>	<p>D.1 This item will be discussed in detail during the TAB meeting in Colorado Springs. Members are asked to review this topic and be prepared for a discussion. There was no time to discuss this item.</p> <p>D.2 A short discussion evolved in Minneapolis with some members considering it important and others not very important. This item will be discussed in detail during the TAB meeting in Colorado Springs. Members are asked to review this topic and be prepared for a discussion. There was no time to further discuss this item.</p> <p>D.3 Barrier Cable: Survey of professional members and others ended with weak return. The results are nonconclusive regarding which method people use and with minimum lengths people use. Only 57 of 351 people returned responses. Will be on the TAB agenda for Colorado Springs. Tim Christle: The TGs are continuing work on the barrier cable documents, although it is moving slowly.</p> <p>D.4 The new website has been launched.</p>
<p>E. Next Meeting</p> <p>E.1 TAB Winter WM?</p> <p>E.2 PTI Convention in Seattle, May 5-8, 2019</p> <p>E.3 Web Meetings</p>	<p>E.2 The exact day and time will be announced when available.</p> <p>E.3 Web Meetings will be scheduled as needed.</p>

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F. Adjourn	F. The meeting was adjourned at 12:00 pm.

AGENDA / MINUTES EXHIBITS

Exhibit #	Subject
A.4	PTI Antitrust Policy / Sign-in Sheet