

**MEETING MINUTES
ACI COMMITTEE 302**

Guide for Concrete Floor and Slab Construction

**Monday, October 25, 2010
Pittsburgh, PA**

ATTENDANCE:

Voting Members (attending) - 25

Joseph F. Neuber Jr. (Chair), Patrick Harrison (Vice-Chair), Russell Neudeck (Secretary), Bryan Birdwell, Peter Craig, Allen Face, Rick Felder, Edward Finkel, Barry Foreman, Terry Fricks, Jerry Holland, Philip Kopf, Milan Lipensky, Steve Lloyd, Kevin MacDonald, Arthur McKinney, Donald M. McPhee, Scott Metzger, Jeff Miller, Nigel Parkes, William Phelan, Tim Robinson, John Rohrer, Paul Rouis, Scott Tarr,

Voting Members (not attending):8

Dennis Ahal, Robert Anderson, Kenneth Beaudoin, Robert Gulyas, Scott Niemitalo, Tommy Ruttura, Bruce Suprenant, Donald Ytterberg

TAC Contact Member:

Eldon Tipping

Consulting Members (attending):

None

Consulting Members (not attending):

Carl Bimel, Michael Clark, William Panarese, Brian Pashina, Boyd Ringo

Associate Members (attending):

Ricardo Alatorre, Jason Ball, Joseph Buongiorno, David Buzzelli, Tim Cost, Craig Coppersmith, Craig Dahlgren, Fernando Fernandez, John Gibbons, David Hoyt, Joseph Jamtgaard, Howard Kanare, Paul D King, Bradley Koland, Jim Kretz, James Loper, Darryl Manuel, Ross Martin, Steve McDonald, Ed McGuire, Warren McPherson, Joseph Nasvik, Mark Patton, John Ries, Gregory Scurto, Matthew Sheehan, James E. Schibley, Eldon Tipping, Christopher Tull, Richard Van Horn, Wayne Walker,

Associate Members (not attending):

David Adams, Richard Albright, William Allen, Howard Allred, Charles Ault, Charles Ayers, Joseph Stephen Balik, Paul Bambauer, Kim Basham, Greg Belew, Joseph Bergmaier, Stephen Boyd, Dianne Carey, Mike Carroll, Russell Collins, Jeromy Craig, George Donnelly, Darrell Darrow, Douglas Deno, Greg Dobson, George Donnelly, Steve Dow, Ashish Dubey, Loren Flick, Bradley Fricks, Greg Fricks, David G. Fudala, Leonard Gagliardi, Andre Garner, Abraham Gutman, John Harvey, Roy E Harvey, Michael Hauser, Fernando Hernandez Vidal, James Hoolehan, Emily Hopps, John Hukey, Scott Humphreys, Bruce Ireland, Mark Kelly,

Mark Kemp, Geoffrey Kinney, Gary Knight, Anthony Lampasona, Michael Linn, Mark Marvin, Sean McGarity, Steve Metzger, Harry Moss, Todd Nelson, Robert Nussmeier, Dennis Phillips, Todd Rambo, Joe Reardon, Royce Rhoads, Gary M. Rogers, Bruce Schmiedl, Andrew Schuler, Nandu Shah, Bryce Simons, Richard Smith, Donald Spitzer, Daniel Stanley, Peter Tatnall, Gregory Taylor, Sam J.Vitale, Patrick Watson.

Visitors:

Dan Biddle (Dbiddle@fortacorp.com), Michael A. Carter (Michael.Carter@propexus.com), Kelly Dudley, Ron Eldridge, Michael Estes (mestes@greenstreak.com), Walter Flood, Bret Houck (brethouck@stegoindustries.com), Joe Kelley (BJKelley@Lehighcement.com), Geoffrey Kinney, Steve Ray Lloyd, Jimm Milligan (jimm.milligan@bekaert.com), David Parham (David.Parham@bekaert.com), Germon Ortega, Russell Snow (rsnow@wrmeadows.com), Thomas Spurto SDI (Sputoeng@mindspring.com), Matt Sherman (mtsherman@sgh.com), John Vaughn, Bill Wolfe (whwolfe@norliteagg.com),

1.0 Welcome and Approval of Minutes.

- 1.1 Meeting was called to order at 8:30 am. Self introductions were given by all in attendance.
- 1.2 25 voting members present.
- 1.3 Motion made and seconded to approve minutes of previous Chicago meeting.

2.0 Announcements:

- 2.1 Please log onto ACI website (www.concrete.org) to verify that your e-mail and other contact information is correct.
- 2.2 Bob Gulyas recently passed away. Bob was a great contributing member of ACI and participated in multiple committees. Bob will be sorely missed. The committee acknowledged Bob's past service with a round of applause.
- 2.3 The new voting members were introduced by Neuber.

3.0 Liaison Reports:

- 117 – Tolerances (Eldon Tipping): Document complete, sent to publisher and should be available soon.
- 130 – Concrete Sustainability (Kevin Macdonald): The committee is discussing some of the unrealistic expectations and recommendations.
- 223 – Shrinkage Compensation (John Rohrer): Document may get published this year.
- 301 – Specifications for Concrete (Scott Tarr): Almost ready for publication. I comment is holding this up and should be resolved soon.
- 330 – Concrete Parking Lots and Site Paving (Tim Cost): In the final states of the document. A draft is anticipated shortly. New Chair (Robert Varner) to take over.

- 360 – Design of Slabs on Ground (Wayne Walker): Document was published. This is the final meeting that walker will chair. A replacement chair has not been decided on yet. 360 will spend time discussing slab failures and fibers. Cautioned everyone about the improper use of the subgrade drag theory.
- 544 – Fiber Reinforced Concrete (Mike McPhee): A new chair (Barzin Mobasher) will take over this committee.
- 640 – Craftsman Certification (Robert Simonelli): One of the goals is to make the craftsman certifications more performance based. Also, the training manual will be translated into Spanish.

4.0 Old Business

- Bill Phelan – Concrete slabs over vapor retarder field testing: The “horse is dead”. We still do not have the data needed to determine a result. The “preliminary” data indicates higher F_L , but too limited data to provide a conclusion. Per Harrison, non-reinforced slabs are having an issue with dominant joints. Significant discussions regarding the placement of vapor retarder ensued. Bill Phelan will rejuvenate the discussion regarding vapor retarder.
- Dennis Ahal – Finishing light weight concrete: Denny was not in attendance. There was no new information provided.
- Bruce Supernant – Avoiding moisture related problems: Bruce was not in attendance. Peter Craig provided feedback. Peter was asked to chair this focus task group and asked for volunteers. The group will decide upon membership and provide an update at the Tampa meeting.
- Joe Bergmaier – Liquid Surface Treatment Standards: Pat Harrison will take over this focus task group.

5.0 New Business

- Committee on Sustainability - Chair Milan Lipensky: Work still ongoing.

6.0 Presentations

- Kevin Macdonald - Sustainability: Reviewed the practicality of sustainability. He suggested the industry as a group needs to get a handle on the particulars to make sure the sustainability requirements also are practical and technically reasonable.
- Joe Nasvik/Howard Kanare – “Making curing membrane in the field”: This was a study on the results related to a study on warehouse floor permeability study. Slab placed Feb 2009. Goals were to identify mix related influence to curing and moisture movement through a hard troweled finish.

The study incorporated multiple mixes and macro fibers. There were a total of nine different mixes with the idea being to isolate mix components to look at their affect on curling. Profiling was measured the day after the placement, at 3 months, 1 and 1 ½ years. The data was reviewed.

Kanare reviewed permeability to understand the speed of floor drying. Most of the moisture changes near the surface (top 2”) varied due to finish but the body of the concrete remained

similar regardless of finish. There is significant difference in a densely hard troweled surface compared to a lightly troweled surface, even if color is similar. A densely hard troweled floor is good at retaining moisture arguably in line with what C-309 requires.

The degree of finish and method of finish “may” impact the total drying time required to apply floor coating. This issue needs investigating.

- Joe Nasvik/Howard Kanare – “Making curing membrane in the field”: This was a study on the results related to a study on warehouse floor permeability study. Slab placed Feb 2009. Goals were to identify mix related influence to curing and moisture movement through a hard troweled finish.
- Eldon Tipping – Eldon gave a presentation regarding suspended slab construction and associated tolerances.

7.0 Review of comments for Chapters 5 and 6 re-ballot:

- The negatives related to the chapter 5 reballot were resolved. We managed to get through about half of the Chapter 6 negatives and but suspended voting due to time restraints.

8.0 Sub-Committees:

- Ch 1 – Introduction: Allen Face and Wayne Walker will handle. Allen will provide some suggested language to be presented at Tampa.
- Ch 3 – Design: Nigel Parkes assumes leadership of Chapter 3.
- Ch 10 – Quality Control Checklist: Will submit AS-IS.

9.0 Adjournment:

- Meeting adjourned at 1:10 PM

Respectfully Submitted,
Russell E. Neudeck

ACI 302 SUBCOMMITTEE CHAIRMEN

- Chapter 1 – IntroductionPat Harrison
John Munday
- Chapter 2 – Classes of floors.....Barry Foreman
- Chapter 3 – Design Considerations.....John Lewis
Chuck Ault, Jewan Bae, Joe Bergmaier, Allen Face, Rick Felder, Barry Foreman, Terry Fricks, Jerry Holland, Bruce Ireland, Sean McGarity, Art McKinney, Nigel Parkes, Nandu Shah, Scott Tarr, Eldon Tipping
- Chapter 4 – Site Preparation and Placing Environment.....Joe Nueber
Dennis Ahal, Joe Bergmaier, Ed Finkel, Barry Foreman, Terry Fricks, Jerry Holland, Joe Neuber, Russell Neudeck, Paul Rouis, Gregory Scurto, Scott Tarr, Richard Van Horn
- Chapter 5 – Materials.....Kevin MacDonald
- Chapter 6 – Concrete Properties and Consistency.....Ed Finkel & Joe Nueber
Jewan Bae, Ed Finkel, Brad Fricks, Jerry Holland, Joe Neuber, Russell Neudeck, William S. Phelan, John Rohrer, Scott Tarr
- Chapter 7 – Batching, Mixing, and Transporting.....Kevin MacDonald
- Chapter 8 – Placing, Consolidating, and Finishing.....Terry Fricks
Dennis Ahal, Joe Buongiorno, Doug Deno, Rick Felder, Jerome Ford, Terry Fricks, Bob Gulyas, Carl King, Mike McPhee, Joe Neuber, John Rohr, Eldon Tipping, Don Yetterberg.
- Chapter 9 – Curing, Protection, and Joint Filling.....Peter Craig
Joe Bergmaier, Jeromy Craig, Jerry Ford, Robert Gulyas, Ken Hover, Scott Metzger, John Munday, Nigel Parkes, William Phelan, Dennis Pinelle, John Rohrer, Scott Tarr, Doc Watson
- Chapter 10 – Quality Control Checklist.....Pat Harrison
Greg Belew, Mitch Birdwell, Carroll Bryan, Walt Flood, Jerry Holland, Jim Hoolehan, Mitch Lipensky, Kevin MacDonald, Sean McGarity, Steve Metzger, Joe Neuber, Nigel Parkes, Don Spitzer, Doc Watson
- Chapter 11 – Causes of Floor & Slab Surface Imperfections.....Scott Tarr
- Chapter 12 – References.....Pat Harrison

FOCUS TASK GROUPS

1. Finishing Lightweight Concrete..... & Bruce Suprenant (co-chairmen)
Ken Beaudoin, Bryan Birdwell, Terry Fricks, Bob Gulyas, John Ries, Bob Simonelli
2. Avoiding Moisture Related Problems.....Peter Craig (chairman)
Jewan Bae, Joe Bergmaier, Joe Buongiorno, Peter Craig, Jerry Holland, Paul Rouis, Scott Tarr
3. Liquid Surface Treatment Standards.....Pat Harrison (chairman)
Bob Gulyas, Dave Hoyt, Bill Phelan, Phil Smith, Scott Tarr