



Meeting Agenda

347 – Formwork for Concrete

Cincinnati, OH

Duke Energy Convention Centre and Hyatt Regency Cincinnati

Saturday, October 19, 2019, 2:00 PM to 9:00 PM (C-200)

Sunday, October 20, 2019, 8:00 AM to 12:00 PM (C-200)

Mission: Develop and report information on formwork for concrete construction.

Goals: 1) Periodically update existing committee documents to reflect current practice and research developments; 2) Develop a design specification for formwork; 3) Develop guidance on formwork pressure when using self-consolidating concrete (SCC); 4) Serve as a resource for ACI Committee 301 on formwork and formed concrete surfaces; 5) Support development and presentation of ACI formwork seminars, webinars, and convention sessions; 6) Encourage research on concrete formwork design, construction, and performance.

Committee Members

Jeff Jack	RedBuilt	Chair
Rick Eder	Ceco Concrete Construction	Secretary
Chuck Larosche	Wiss Janney Elstner Assoc.	TAC Contact
Rodney Adams	Baker Equipment & Materials LTD	VM
Mary Bordner-Tanck	R H Bordner Engineering	VM
Nicolaus Coffelt	Aluma Systems	VM
Eamonn Connolly	James McHugh Construction Co	VM
James Cornell	J. N. Cornell Assoc.	VM
Chris Garcia	Pankow Builders	VM
Brian Golanowski	Universal Forest Products	VM
Andrew Gray	EFCO Corp.	VM
Supriya Gupte	Accu-Crete	VM
Tim Hayes	Ceco Concrete	VM
Mark Hirschi	Baldrige and Assoc.	VM
Kris Hughes	Baker Concrete Const.	VM
David W. Johnston	North Carolina State Univ. (retired)	VM
Roger Johnston	Crimson Engineering Associates	VM
Phil Jones	EllisDon	VM
Destry Kenning	Nox-Crete Products Group	VM
Bob Kent	Doka USA	VM
Kevin Koogle	Koogle Engineering, LLC	VM
Yvonne Nelson	Form Services	VM
Hector Olivas	Dayton Superior	VM
Doug Peters	Christman Constructors	VM

Eric Peterson	Webcor Builders	VM
Steffen Pippig	MEVA Formwork Systems	VM
Ken Pratt	Swanson Group	VM
Brian Ruegge	Kiewit Engineering	VM
Richard Ryon	RMD Kwikform	VM
Douglas Schoonover	Atlas Construction Supply	VM
Aviad Shapira	Technion/Israel Institute of Tech.	VM
John Simpson	Simpson Engineering LLC	VM
Peri Stivaros	Feld Kaminetzky & Cohen-GEI	VM
James Tkach	Largo Concrete	VM
Daniel Toon	United Forming Inc	VM
Ralph Tulis	Structures Consulting	VM
Thomas West	Barton Malow	VM
Scott Winch	PERI Formwork Systems	VM
Gardner P (Jum) Horst	Horst and Associates	Consulting Member
H. S. Lew	NIST	Consulting Member
Rolf Spahr	Spahr Consult	Consulting Member
Valery Aladiev	PERI Formwork Systems	AM
Aali R Alizadeh	Giatic Scientific Inc	AM
Jazmin Anaya	PERI Formwork Systems	AM
Kim Basham	KB Engineering LLC	AM
Francisco Bermudez	Arber & Associates Inc	AM
Andrew Bombassaro	Aluma Systems	AM
Eswar Burra	Southern Pan	AM
Brian Carson	Osburn Contractors	AM
George Charitou	EllisDon Construction	AM
Jennifer Clark	Dun Par Engineered Form Co.	AM
Russ Collins	Gregory Construction Services	AM
Michael Core		AM
Michael Damme	Sundt Const.	AM
Anthony DeCarlo	Tru Wall Concrete Inc	AM
Sean Dingley	Adb Engineering	AM
Jeff Erson	Erson and Assoc.	AM
Noel Gardner	Univ. of Ottawa (retired)	AM
Sam Greenberg	Dansco Engineering	AM
Danny Gumm	Sundt Const.	AM
Rishi Gupta	University of Victoria	AM
Jonathan Hawkins	G&C Concrete Construction	AM
Michael Hernandez	Parsons	AM
Alan Herndon		AM
Matthew Hummel	LendLease	AM
Rocky Janney	Koogle Engineering	AM
Kamal Khayat	Missouri Univ of Science & Tech.	AM
Chong Kim	D.H. Charles Engr.	AM
Markus Klooth	Webcor Builders	AM
Jim Kretz	Walbridge Co.	AM
Antonio Limbardo	Engineered Devices Corp	AM
Andrew Lloyd	MEVA Formwork Systems	AM

Ward Malisch	ASCC	AM
Daniel McAuliffe	Morley Construction	AM
Richard McCarthy	Swedish Cement & Concrete Res	AM
Robert Opie		AM
Andy Pearson	EFCO Corp.	AM
Michael Pedraza	United Forming	AM
Dimitriy Petrov	Titan Formwork Systems	AM
Bill Phillips		AM
Matthew Poisel	Atlas Engineering	AM
Robert Rowe	Pacific Wood Laminates	AM
Robert Schulthorpe	ICF-MA	AM
Gunter Sengel	Ischebeck USA	AM
Bill Shebetka	Great Lakes Construction Co.	AM
Amerald Simanungkalit	TITAN Formwork Systems	AM
Todd Solar	Jobsite Supply	AM
Adrian Soto	Aluma Systems	AM
John Suther	Wayne Brothers Inc.	AM
Paul Treacy	Pacific Structures	AM
Amy Trygestad	CRSI	AM
Eric Twomey	Simpson Gumpertz & Heger	AM
Ed Ulrich	Ulrich Engineers	AM
Kavya Vallurupalli	Univ Missouri Rolla	AM
Kyle Vasa Bertolucci	Webcor Builders	AM

Saturday Afternoon Meeting (C-200 Room)

1. Call to Order (2:00-2:15)

- 1.1 Introduction of Members and Visitors
- 1.2 Attendee List, pass around and sign
- 1.3 Announcements

2. Design Specification for Formwork (2:15-6:00)

- 2.1 Work through remaining ballot responses to comments

3. Break for Dinner (together) (6:00-7:30)

4. Design Specification for Formwork (7:30-9:00)

- 4.1 Prepare content for upcoming ballot of other sections in document

5. Adjournment (9:00)

Sunday Morning Main Committee Meeting (C-200 Room)**1. Call to Order (8:00-8:15)**

- 1.1 Introduction of Members and Visitors
- 1.2 Attendee List, pass around and sign
- 1.3 Roster; pass around, make corrections to contact info
- 1.4 Announcements
- 1.5 Committee membership; New Members, Resignations

New Voting Members -	Chris Garcia – Pankow Builders Mark Hirschi – Baldrige & Assoc. Hector Olivas – Dayton Superior James Tkach – Largo Concrete Co.
Resignations from VM -	Ken Berndt – Ceco Concrete (retired) Bob McCracken – EFCO Corp. (retired)
Reclassified to Consulting Members -	H.S. Lew – NIST Rolf Spahr – Spahr Consult
Reclassified to Associate Members -	Jeff Erson – Erson and Assoc. Jim Kretz – Walbridge Co.
New Associate Members -	Jazmin Anaya – Peri Formwork Systems Jennifer Clark – Dun Par Engineered Form Co. Michael Damme – Sundt Construction Danny Gumm – Sundt Construction Dimitriy Petrov – Titan Formwork Systems John Suther – Wayne Brothers Inc. Eric Twomey – Simpson Gumpertz & Heger

2. Approval of Minutes (8:15-8:30)

- 2.1 Approval of Minutes from Spring Meeting
- 2.2 Approval of Minutes from July 16 Virtual Meeting

3. Old Business - Updates (8:30-8:45)

- 3.1 Report ANSI A11 Update – Jack
- 3.2 ACI 310 Decorative Concrete - Pratt
- 3.3 Void Forms Task Group - Cornell
- 3.4 Upcoming Session – Stivaros

4. New Business (8:45-9:45)

- 4.1 Peer Review of ACI 301 – Specification for Structural Concrete - Jack
- 4.2 Peer Review of ACI 304.3R – Heavyweight Concrete: Measuring, Mixing, Transporting and Placing - Jack
- 4.3 CRC Research Proposal – Non-Rigid Formwork System with Engineered Cementitious Composite – Loreto
- 4.4 ANSI A10.9 changes - Johnston

5. Break (9:45-10:00)

- 5.1 Community Impact - Hughes

6. Design Specification for Formwork (10:00-12:00)

- 6.1 Report from progress on virtual meetings and Oct 19th meeting
- 6.2 Prepare and ballot responses to comments
- 6.3 Assign task group leaders for sections
- 6.4 Develop plan for next sections to ballot –

7. Adjournment (12:00)

The next meetings will be Saturday, March 28, and Sunday, March 29, 2020, at the Hyatt Regency O’Hare in Chicago, IL.
