



# ACI-SEI Committee 343 Concrete Bridge Design

## Minutes

Monday, March 19, 2012  
10:00 AM – 1:00 PM  
Hyatt Regency  
Dallas, TX

**Meeting Room: Reverchon A**

### **Attendees:**

#### Members:

Nur Yazdani  
Danielle Kleinhans  
Suhail Albhaisi  
Michael C. Brown  
Om Dixit  
Andrew Foden  
Manyop Han  
Devin Harris  
Angel Herrera  
Riyadh Hindi  
Thomas Hsu

Mohsen Issa  
Sue Lane  
Matthew Lovell  
Mohamed Mahgoub  
Alan Matejowsky  
Hani Nassif  
Jeff Novak  
Andy Nowak  
Rita Oglesby  
Ayman Okeil  
Ayman Salama  
Jeff Smith

#### Visitors:

Jinbiao Dai  
Ben Dymond  
Jose Gallardo  
Ben Greybeal  
Katrina Habel  
Alejandro Hurtado  
Richard Huza  
Ahmed Ibrahim  
Raphael Stern  
Roman Vovchak

### 1. **Call to Order and Attendee Introductions**

The meeting was called to order by Chairman Nur Yazdani at 10:10am and all present introduced themselves.

### 2. **Approval of Cincinnati, Ohio, Committee 343 Fall 2011 Meeting Minutes**

At the start of the meeting only 13 voting members were present. However, later in the meeting 16 voting members (50%) were present. Angel Herrera moved that the minutes from our last meeting be approved and Om Dixit seconded the motion. The voting resulted in 15 affirmative votes and 1 abstention, so the motion passed.

### 3. **Membership changes and status, Associate members encouraged to become voting.**

Danielle Kleinhans reported membership changes since the last meeting. We currently have 32 voting members, 11 consulting members and 75 associate members. New voting members were noted – Mourad Riad and Michael Brown. New associate members were noted – Andrew Monshizadeh, Say hak Bun, Suhail Albhaisi, Matthew D. Lovell, Ahmed Abdel-Mohti, and David McDonald.

Nur Yazdani made an update on TAC information from the chairman's breakfast this morning. Some confusion was raised about subcommittee members and their voting status in the main committee. Subsequent to the

meeting, this was clarified to indicate that subcommittee members must be voting members of the subcommittee, but they need not be voting members of the main committee. Members are allowed 3 document downloads per year from the ACI website. Committees may create video productions along with publications. Web-based technical sessions for ACI conventions are available. Trey Hamilton will become our TAC contact at the next convention since Hani Nassif will be stepping down from TAC.

Om Dixit asked whether it is possible to ask TAC about telephone or video conference capabilities at committee meetings at conventions. Hani Nassif indicated that TAC had discussed this in detail, however, have determined it to be cost prohibitive and not possible. Some committees have called specific members who could not attend (for example, if they had cast a negative vote that needed to be resolved).

#### 4. **Status of Committee 343 Conference Technical Sessions**

Spring 2012 - Dallas, TX (*Theme: The Art of Concrete*)

”Integral Abutment Bridges”

Riyadh Hindi and Mohamed Mahgoub

This session will be Monday afternoon (4 - 6pm) in Reunion A and will be moderated by Riyadh Hindi.

Fall 2012 – Toronto, CA (*Theme: Forming Our Future*)

“Past and Future of Concrete Bridges” – jointly with Committee 345

Hani Nassif

Due to limited space availability, this session will be submitted for a future convention. Hani Nassif will alert the committee at which convention this will be conducted.

Spring 2013 – Minneapolis, MN (*Theme: Responsibility in Concrete*)

Sessions TBD

Nur Yazdani asked for suggestions for sessions. None were voiced during the meeting. Any ideas should be communicated by email to Nur and Danielle.

SEI Structures Congress, 2012, Chicago, IL

“Design of Concrete Bridges with Innovative Materials”

Nur Yazdani

This session will be conducted on Friday afternoon at the Congress. All attending the Congress are encouraged to attend the session.

SEI Structures Congress 2013 – Pittsburgh, PA

Sessions TBD

The deadline to submit papers and session ideas is in June and can be submitted online.

#### 5. **FHWA Long Term Bridge Performance Program**

An update on the LTBP program was presented by Sue Lane from FHWA. She reported on the goals of the research and the work that has been done to date to identify states’ needs, protocols, and research objectives. Some upcoming events are the Industry Meeting which will be conducted in May 2012. This will be an opening meeting and many of those submitting RFI responses will be asked to attend and present their ideas. Expert task groups on the topics of durability and preservation, evaluation and monitoring, and traffic and truck weights will be established with their first meetings to occur in April and May of 2012. The next meeting of the TRB advisory committee will be held in May 2012. Additional information on the LTBP program can be found at: <http://www.fhwa.dot.gov/research/tfrc/programs/infrastructure/structures/ltbp/>. A current solicitation for contractors is also advertised currently with a deadline of April 3<sup>rd</sup>. More information can be found at [FedBizOpps.gov](http://www.fbo.gov/index?_paction=post) at [https://www.fbo.gov/index?\\_paction=post](https://www.fbo.gov/index?_paction=post) (In the keyword search, type in: DTFH61-12-R-00013).

#### 6. **On-going Business**

A. 343-F: Sub-committee for ACI 358.1R-03

“Analysis and Design of Reinforced and Prestressed-Concrete Guideway Structures”

Bruce Kates was unable to attend the meeting. Nur Yazdani provided an update on behalf of the subcommittee. The response to the comments from TAC and the subsequent changes to the document were balloted recently with the ballot closing on March 15<sup>th</sup>. There was 1 negative vote that will need to be resolved. Nur indicated that Bruce and he believe that this can be accomplished through discussions with the voter. Nur thanked all that voted. For the document to be reviewed by TAC at their summer meeting in June, the document and responses would be due by April 10<sup>th</sup>. Hani Nassif had asked for an extension until October from TAC which was granted. Nur indicated that the subcommittee is confident that they can address the ballot comments and provide all to TAC in April. Hani urged the committee to use the meeting today to address the negative vote and/or other comments. Nur indicated that the subcommittee was not ready for a resolution at this meeting.. The subcommittee will work in the coming weeks to address all comments and the negative vote. Hani expressed concern about progress and that the document must be completed by this new deadline.

B. Sub-committees for ACI 343R-95  
“Analysis and Design of Reinforced Concrete Bridge Structures”

a. 343-A: Design Riyadh Hindi

This chapter is essentially done, but has not been balloted. The subcommittee met on Sunday and had agreed to remove some sections and they want some guidance from the editorial subcommittee.

b. 343-C: Preliminary Design Claudia Pulido

This chapter is done, and has been balloted previously.

c. 343-D: Loads Andrej Nowak

This chapter is done, and has been balloted previously.

d. 343-E: Analysis Sameh Badie

This chapter is done, and has been balloted previously.

e. Material Hani Nassif

Hani reported that this chapter is 90% complete and should be ready for committee ballot in April. It was asked if this chapter addresses self-consolidating concrete (SCC). Hani indicated that it does not; he will look into it. Perhaps the deck design document (see summary below) could include a section on this topic.

f. General Conditions Barney Frankl

It was noted that this chapter had been renamed as “Requirements for bridges” at the last meeting. Nur has reached out to Barney who is still interested in working on the chapter. Nur will work with Barney to complete or finish himself if Barney is not responsive.

g. Detailing and Constructability TBD

Nur reported that Mohsen Issa has accepted the responsibility to chair this subcommittee. Mohsen indicated that he could have an outline of the chapter within two weeks. Nur will send the information that the previous chair had compiled to Mohsen.

Hani had requested an extension for this document as well. A one-year extension was granted. Nur expressed hope that the document could be completed this summer, perhaps by August. Some noted this was very aggressive and may be optimistic especially in light of the work needed by the editorial subcommittee.

C. 343-B: Sub-committee on Bridge Deck Design

Shri Bhide was not able to attend the meeting. Hani Nassif provided an update on behalf of the subcommittee. The subcommittee met last week via conference call and this morning here at the convention. At these meeting the outline and assignment of sections was discussed. Progress was made on both items. The overall timeline was delayed however. It was noted that the previous ITG contained information for Chapter 4 and 5 of this new document.

D. Editorial Sub-committee

Om Dixit

Hani urged the editorial subcommittee to get working on this effort immediately. Michael Brown is now working closely with Om Dixit on this effort. All subcommittee chairs are members of the subcommittee as well. The subcommittee chairs could alternatively suggest someone else from the subcommittee to fill this role, but all need to be active based on potential changes to all sections as a result of this effort.

Om requested MSWord copies of all of the chapters/outlines of chapters. Nur will send these all to Om, Michael, and Danielle. Danielle will post them on the committee website. Om mentioned the length of the document and formatting of the sections/headings will require significant effort.

A draft of the outline, based on information provided to date, was circulated to all present. Hani expressed concern over the length of the document.

Michael requested the latest chapter/outline versions as soon as possible. Chairs should send to Michael, Om, Danielle and Nur. Om and Michael will work in the next weeks to further compile the outline of the overall document. They will review and suggest changes in order to address apparent redundancy. The goal will be to hold a conference call of the subcommittee sometime in May to address these potential changes. Then the outline will be balloted within the main committee by June. This approved outline will provide guidance to the chapters that are under development.

One comment to be addressed in this effort will be what to do with the appendices of the design chapter. It was noted that these appendices contain valuable design examples. It was noted that they could be published separately or with the document. Further consideration is needed.

7. **New Business**

No new business was raised.

8. **Announcements**

A. Upcoming Technical Meetings of Interest

1.	ASCE-SEI Structures Congress	March 29-31, 2012	Chicago, IL
2.	BridgeLife 2012	April 10-12, 2012	Ottawa, Canada
3.	ICRI Convention	April 18-20, 2012	Quebec, Canada
4.	Bridge Engineering Conference	May 13-15, 2012	Poland
5.	International Bridge Conference	June 10-13, 2012	Pittsburgh, PA
6.	FIB Symposium	June 11-14, 2012	Stockholm, Sweden
7.	AASHTO Bridge Meeting	July 8-12, 2012	Austin, TX
8.	IABMAS	July 8-12, 2012	Italy
9.	PCI Convention & Bridge Conference	Sept 29- Oct 3, 2012	Nashville, TN

9. **Next Meeting**

Fall Convention 2012 will be October 21-25, 2012 in Toronto, Canada  
ACI-SEI Committee 343 will request to meet again on Monday morning at 10 AM.

**Adjourn**

The meeting was adjourned at 11:51am.

# ACI-SEI Committee 343

## Concrete Bridge Design

### Action Items Based on Spring 2012 Dallas Meeting

#### Committee Members

- If interested, send to Nur and Danielle any session ideas for Spring 2013 Convention in Minneapolis, MN.
- If interested, submit session proposals and paper abstracts for the 2013 SEI Structures Congress, Pittsburgh, PA. Deadline is June 12, 2012. Submit at <http://www.seinstitute.org/>.

#### Sub-Committee Chairs

- Send all chapter outlines to Michael Brown, Om Dixit, Nur Yazdani and Danielle Kleinhans.

#### Guideways Sub-Committee

- Address ballot comments and negative vote. Send response to TAC by April 10, 2012.

#### Bridge Deck Design Sub-Committee

- Continue working on the “Bridge Deck Design” document.

#### Editorial Sub-Committee

- Review all chapter outlines. Compile and remove redundancy.
- Hold conference call in May 2012 to address potential content changes.

#### Mohsen Issa

- Work on the “Detailing and Constructability” chapter.
- Send an outline of this chapter to Nur or Danielle within two weeks.

#### Danielle Kleinhans

- Post missing documents on sub-committee web sites once received from Sub-committee chairs and/or Nur Yazdani.

#### Hani Nassif

- Inform the committee about the status of the proposed session “Past and Future of Concrete Bridges”.
- Send completed “Materials” chapter for the 343 document to Nur and Danielle by April 2012.

#### Nur Yazdani

- Work with Barney Frankl on the “Requirements for Bridges” chapter for the 343 document.
- Send to Mohsen Issa information on the “Detailing and Constructability” chapter.
- Send MS Word version of all documents in progress to Om Dixit, Michael Brown and Danielle Kleinhans.
- Hold ballot on modified table of contents for the 343 document in June 2012.