

**ACI-DAfStb-Group “Shear databases” / ACI Subcommittee 445-D**  
**ACI Spring Convention in Milwaukee**  
**Sunday, 17 April 2016, 2:00 to 5:00 pm, Room: C-103-B**  
**Meeting Minutes**

**Attendees:**

Members: Karl-Heinz Reineck (Chair), Oguzhan Bayrak, Dan Kuchma, Evan Bentz,  
Lesley Sneed, Gary Greene, Chris Williams, Eva Lantsoght, Antoni Cladera

Visitors: Mahmoodreza Soltani, David Garber, Sihang Wei, Kimberly Kramer, Tomohiro Miki,  
Nikkolas Edgmond, Amr El Ragaby

**1 Welcome**

Reineck welcomed everyone, and attendees introduced themselves to the group.

**2 Approval of agenda**

Agenda was reviewed and approved.

**3 Approval of minutes of the last meeting**

Reineck thanked Sneed for having recorded the minutes during the previous meeting in Denver. The minutes were approved.

Williams will record the minutes for today’s meeting

**4 Report on databases 2015 (DAfStb Heft 617)**

Reineck provided an overview of the report to the subcommittee. It is currently under review and should be published by the end of September.

DAfStb has taken over the responsibility of maintaining the databases.

Reineck will send out the evaluation databases to all members. He will send the collection and control databases if requested.

Discussion of potential paper covering database evaluations and use: Bayrak suggested publishing a paper, potentially in Concrete International, to summarize shear databases (importance of databases, history of databases and their evolution, reason for collecting databases, etc.). Bentz recommended providing a literature review that points to other publications of database results.

Conclusion to discussion on database paper:

- Bayrak will develop the first draft of the paper. The draft will be distributed to subcommittee for comments. The paper should include criteria, conversion factors, etc.
- Bentz noted his concern with defining the audience (this needs to be determined).
- Sneed volunteered to work with Bayrak and Bentz on this effort.

## **5 Databases with shear-friction tests (Williams,Sneed, Soltani, Katrin Wieneke)**

Sneed and Williams provided an update on the shear-friction database efforts

Sneed has push-off tests on lightweight aggregate concrete that she can contribute

Tasks for next meeting:

- Gather a comprehensive list of references and identify types of shear-friction tests;
- Determine the focus of the database (what data will be collected);
- Determine format of database (how data will be collected/organized);
- Provide clear definitions of “shear-friction” and “interface shear”;
- Develop mission statement.

## **6 Databases for shear tests on lightweight concrete beams (Greene and Sneed)**

Greene presented slides showing distribution of specimens in database.

Reineck will review data and provide comments.

Greene will send list of references to subcommittee to ensure list is complete.

## **7 Assignments and time frame for revisions of databases**

7.1 vuct-RC-2015

7.2 vsw-RC-2015

7.3 vuct-RC-N: shear tests on r.c.-beams subjected to axial force (Bentz; Reineck)

Reineck will have subcommittee review references to ensure databases are complete.

Reineck asked for volunteers to vet databases and would appreciate if *fib* members would assist.

Bentz recommended names of two *fib* members for this work; Cladera also volunteered to help.

Reineck expressed his appreciation for the willingness of the volunteers.

*fib* will hold a shear workshop where Reineck will represent the database group.

## **8 State of Databases vswh-RC with shear tests on deep beams**

This database **deals with** shear tests on non-slender beams with vertical **and** additional horizontal web reinforcements.

Two publications are being prepared on this topic. Reineck will keep subcommittee updated.

### **9 State of databases for shear tests with intermediate supports**

A working group was formed for checking procedures and data (Bentz and Reineck).

Reineck reviewed his progress on the database and his current list of applicable studies.

Reineck will send list of references (and names of tests in specific references) to subcommittee to ensure list is complete.

### **10 Next meeting**

Sunday, October 23, 2016, 14 to 17 h (2 to 5 pm) in Philadelphia, PA

### **11 Membership**

C. Williams has applied and been accepted to membership on the subcommittee.

### **12 Other topics**

There were no other topics to discuss

### **13 Adjournment**

Minutes prepared by Chris Williams and Karl-Heinz Reineck

11 May 2016