

From: Ben Schafer
To: File
On: 10 May 2011
Re: Minutes from SSRC TG Chair Reports

General note, TG meetings were held on 10 May 2011 in Pittsburgh. Approximately 70 SSRC members and guests attended the Tuesday annual meeting. Participation in the TG's was nearly universal and tables which seated 24 members or guests were full, or overfull for all TG meetings. The following summary reports were recorded as the TG Chairs (or their substitutes) reported out to the entire membership. Key action items were created by me, based on these summaries.

TG02 "Members" report by Don White

Discussion of Yura challenge on angles

Wagner hypothesis vs. Ojalvo ideas → test!
5x3x1/4 in. angle warping fixed ends 6' long
Wagner fcr = 34.5 ksi
Ojalvo fcr = 52.4 ksi
Difference likely wide enough to see experimentally
Some concern about inelastic buckling...

Some will conduct tests

Some will do FE

See 2010 meeting summary for past volunteers

Industry support will be sought for the testing

Propose next year during Annual meeting to have a small session to report results

Key action item

TG02 Will perform analysis (and hopefully testing) to resolve Yura angle challenge

TG03 "Systems" report by Andrea Surovek

Focus on complexity of systems

Seismic vs. static vs. blast vs fire – each hazard takes a different approach to system stability

Need a database of benchmark problems for frame/system stability

Experimental database/benchmark needed too!

Perry Green will coordinate with Krishnan and Varma to develop a web page to assimilate benchmarks for frame and system stability.

<All to participate>

Also created first draft of TG mission statement

Key action item

TG03 Will initiate an effort to assemble system stability benchmark problems

TG04 "Bridges" report by Dan Linzell

Title: Stability of metal bridges and bridge components

Discussed how bracing should map to their TG (and other new TGs)

Reviewed membership list

Edited TG mission statement (will begin dating the revisions)

Discussed plan to revise Guide chapters

Discussed feedback from Chair and Vice Chair on current Guide chapters

Key action item

TG04 will review plate girder chapter this year

TG05 “Thin-walled” report by Cris Moen

Large email list of interested parties assembled

- Test database for CFS columns under creation, data from U.S., China initiated the database now including much more
- International activities of AISI, ECCS, etc. – TG intends to find a rep from each group, get a yearly report and disseminate to its members
- TG is participating and supporting CFS student design competition centered out of UNT by Cheng Yu and funded by NSF (currently)
- Efforts to link SSRC TG05 “Thin-walled” to ASCE-SEI Cold-formed committee, idea formulated in the meeting was to start with education and development of snippets/primers for modern stability research.

Key action items

Further assembly and begin dissemination of columns database

Find reps for first report on thin-walled activities worldwide

Develop action plan for primers on modern stability research

TG06 “Extreme Loads” report by Amit Varma

Discussion of stability under extreme loads

-hazards definition -behavior complexity

Worked on and drafted a mission statement

Discussed collaboration with TG03 on benchmarking needs

Discussed developing a few simple examples to illustrate how current design handles extreme loads – in an effort to increase engineering-academic exchange.

Key action items

Provide several benchmarks for extreme load problems to TG03 effort

Develop example problems