

**Minutes from the ASCE/SEI Blast, Shock, and
Vibratory Effects Committee**
May 18, 2007; 2:00 – 6:00 pm
Shanghai Room, The Westin Long Beach
333 East Ocean Boulevard, Long Beach, California 90802

Attendance:

Eight (8) members and six (6) visitors attended the Blast, Shock, and Vibratory Effects (BSVE) committee meeting. The list of attendees is attached at the end of this document.

1. Introduction of committee members and visitors

The meeting was called to order by Ted Krauthammer at 2:00 pm. All members and guests introduced themselves. Ted Krauthammer distributed an agenda for the meeting.

2. Approval of minutes of 2006 Congress

The minutes from the previous meeting were discussed and unanimously approved.

3. Committee membership

Ted Krauthammer presented the committee roster. He encouraged and invited the guests to apply for committee membership. Ted took over as chair of the BSVE committee in October 2006. Jimmy Baylot, previous BSVE chair, now serves as chair of the Dynamic Effects Technical Administrative Committee (TAC). Committee membership was discussed and it was noted that terms for three members (Darryl Barker, Gary Consolazio, and Bob Smilowitz) end in 2007. Gary Consolazio's term has been extended by two (2) years based on the fact that he now serves as Associate Editor for the committee.

4. Report of Associate Editor and discussion of paper reviews

Gary Consolazio took over for Abhinav Gupta as Associate Editor for the BSVE committee in January 2007. Abhinav served in this role from October 2004 to December 2006. Papers routed to the BSVE committee for review and possible publication in the *ASCE Journal of Structural Engineering* were split between Abhinav (June 2006 to December 2006) and Gary (January 2007 to May 2007). For this twelve month period, twenty-six (26) papers were submitted for review. Reviews for nineteen (19) papers have been completed and seven (7) reviews are pending. Results for the papers reviewed are as follows:

3	(16%)	Accepted
8	(42%)	Declined
5	(26%)	Re-review
2	(11%)	Resubmit as technical note
1	(5%)	Transfer to another ASCE journal

5. Review of Technical Sessions

Three sessions sponsored (or co-sponsored) by the BSVE committee were approved for the 2007 Structures congress:

1. Uncertainty and Blast Hazard
2. Blast Effects on Structural Connections and Systems

3. Blast Resistant Analysis and Design: Presentations, Panel Discussion and Audience Questions

It was reported that the session on uncertainties (which occurred before the BSVE committee meeting) was attended by approximately 70 people. The session proposed for 2007 on Vessel Collision Loading of Bridge Structures by Gary Consolazio was not accepted. Jimmy Baylot noted that the process by which session proposals are reviewed for the Structures Congress will be changing in the future. Currently, approximately 50% of the session slots are reserved for selection by the local organizers. In the future, this will be reduced to a lower level, with the remaining session selections being made by a national-level review/organization body.

6. Discussion of topics for 2008 Structures Congress - Vancouver, Canada

Ted Krauthammer informed the committee that session proposals for the 2008 Structures Congress—which will be held in Vancouver, Canada—are due by June 15, 2007. Decisions will be made by July 7, 2007. Since the theme of the conference is “crossing borders”, there is a strong emphasis on partnering with individuals in Canada in terms of organizing technical sessions. Six (6) sessions were discussed by the committee:

1. Numerical code validation through severe experimental testing (lead: Jimmy Baylot)
2. Development of new constitutive models for concrete based on impact testing (lead: Ted Krauthammer)
3. Characterization of damage arising from severe dynamic loading (lead: Andy Prinaris)
4. Novel mitigation techniques for blast loading (lead: Mohammed Ettouney)
5. Global structural system behavior under abnormal loading events (lead: Bob Smilowitz).
6. (Possible session) Anti-impact / anit-ramming devices (lead: Bob Smilowitz)

It was noted that sessions should consist of four (4), or at a maximum five (5), papers each. Jimmy Baylot mentioned that papers submitted to the specialty tracks on “Analysis and Computation” will be peer reviewed which raises the bar in terms of paper quality.

7. Updates on committee related reports (Paul Mlakar)

Paul Mlakar was not able to attend the BSVE committee meeting, therefore no reports were available on the status of *Structural Design for Physical Security – State of Practice Report* or the *Pentagon Building Performance Report*.

8. Committee web site (Gary Consolazio)

Gary Consolazio presented a report on the committee website. During the period June 2006 to May 2007, the website was updated to keep committee information current. An on-line question and answer (Q&A) submission system was completed in 2006 but has not yet been made active. Gary noted that activation of the system is tentatively scheduled for Summer 2007. Ted Krauthammer noted that the link from the BSVE web site to the Protective Technology Center (PTC) at Penn State University should be removed since the PTC is no longer active

9. Other committee activities

Jimmy Baylot noted that no-one currently on the BSVE committee is working extensively in the area of building vibrations. He also noted that ASCE is possibly going to form a new technical committee on building vibrations and that if anyone is interested in becoming a member of the new committee, they should contact him.

Based on the lack of focus on building vibrations within the BSVE committee membership, it was suggested that the name of the committee be changed. Jimmy Baylot suggested that the name be changed to "Blast, Shock, and Impact Committee" to more accurately reflect the focus of the committee. Ted Krauthammer indicated that he would submit the necessary paperwork to ASCE to bring about the name change.

10. Proposals for future committee activities

Jimmy Baylot stated that ASCE is encouraging committees to put on webinars (web-based seminars).

Ted Krauthammer raised the possibility of the committee taking on the task of revising Manual 42, *Design of Structures to Resist Nuclear Weapons Effects*. The manual was published by the committee in 1985. Ted noted that analysis techniques have changed considerably since publication of Manual 42. Andy Prinaris noted that DTRA might have alternative resources (e.g. textbooks, manuals, etc.) that may make revision of Manual 42 by the BSVE committee unnecessary. Andy stated that he would provide additional information to Ted.

11. Other business and open discussions

No other business.

12. Adjournment

The meeting was adjourned at 3:50 pm. It was followed by meeting of the Task Committee on Design for Physical Security.

13. Meeting of Task Committee: Design for Physical Security

The task committee meeting was called to order by Ted Krauthammer at 4:00 pm. Ted discussed the fact that the task committee was formed for the purpose of developing a design guide for physical security which would be linked to TM5-1300. Formation of the task committee was approved by ASCE in 2006. It was noted that TM5-853 will be reissued after revisions. The issue of whether the task committee should proceed with development of a design guide was discussed, as was the need for possibly reviewing the scope of the committee's activities. It was noted that the Department of Homeland Security (DHS) is also working on similar issues (development of documents providing design guidance for physical security).

The task committee meeting was adjourned at 6:00 pm.

Attendees at 2007 Blast, Shock, and Vibratory Effects Committee Meeting

Members :

Farid Alfawakhiri	falfawakhiri@steel.org
James Baylot ¹	james.t.baylot@erdc.usace.army.mil
Gary Consolazio ^{2, 3}	grc@ce.ufl.edu
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Visitors:

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- 1: Member, Task Committee on Design for Physical Security
- 2: Control Group Member
- 3: Structures Journal Associate Editor
- 4: Committee Chair
- 5: Chair, Task Committee on Design for Physical Security

Minutes of the meeting prepared by Gary Consolazio.