

**SEI Shock and Vibratory Effects Committee Meeting Minutes**  
**Renaissance Hotel, Washington, D.C.**  
**Sunday, May 20, 2001**

Meeting called to order at 8:30 a.m.

**1. Committee members and visitors in attendance**

Members

Joseph Tedesco, Chair	University of Florida
Barry Rosson, Associate Editor	University of Nebraska
Ted Krauthammer, Control Group Member	Pennsylvania State University
James Baylot	US Army ERDC
Paul Mlakar	US Army ERDC
Abhinav Gupta	North Carolina State University

Visitors

Gary Consolazio	University of Florida
Darrel Barker	EQE International
Richard Nielsen	University of Idaho
Trey Hamilton	University of Wyoming

**2. Report of the Associate Editor**

Barry Rosson, Associate Editor, presented his report on the papers submitted to the *Journal of Structural Engineering*. His report is attached. The summary results for the twelve month period from May 1, 2000 through April 30, 2001 are as follows:

Papers received for review	21
Reviews completed	16
Accepted	5
Declined	11

The acceptance rate is approximately 30%, with an average turn-around time of four months.

A list of the twelve most recent papers submit for review by our committee was distributed and discussed. Based on the papers' titles and keywords, it was determined that only one or two pertained to shock and impulsive loadings on structures. Several dealt with nondestructive evaluation of structures. Future papers dealing with NDE will be reviewed by the Performance of Structures Committee. Joe will talk to Sashi Kunnath, Senior Managing Editor, about this change.

The process of developing a Special Issue on Shock, Blast and Impact for the *Journal of Structural Engineering* will begin this year. Joe and Ted will identify potential authors and send a letter to each soliciting their contribution. Barry will be in charge of the coordination of reviews

and the communication with Johanna Reinhart and Jackie Perry at ASCE Journals Production Services Department.

### **3. Review of technical sessions**

#### 2000 NRC Workshop

Joe discussed the workshop sponsored by the National Research Council on “Protecting People and Buildings from Bomb Damage” in Washington D.C., November 28-30, 2000. A handout on the workshop sessions was distributed to the committee and is included in this report.

#### 2001 Structures Congress

(Blast - Track 4, Monday, May 21)

“Structural Hardening and Physical Security: Past Experiences, Present Practice and Future Considerations” panel discussion organized by Ted Krauthammer and Sam Kiger; and  
“Structural Design to Mitigate Terrorist Hazards” organized by Jimmy Baylot and Stan Woodson  
(Blast - Track 4, Tuesday, May 22)

“Blast-Resistant Design Tutorial: Part I and II” tutorial organized by Ted Krauthammer and Stan Woodson.

Members of the committee expressed their displeasure at not being aware of the Blast-Resistant Design session organized by Mohammed Ettouney until after the final program had been printed. All future sessions should be coordinated by the committee for approval before being sent to the Structures Congress Steering Committee.

#### 2002 Structures Congress

Four sessions were submitted, but no notification as to their acceptance has been given to Joe or to the session organizers. The proposed sessions and organizers are as follows:

“Practical Aspects of Blast Design and Retrofit” by Jimmy Baylot;

“Complimentary Design Approaches for Seismic and Blast Resistant Design” by Ted Krauthammer;

“The Future of Structural Dynamics-Modal Analysis” by Joel Leifer; and

“Design of Blast-Resistant Barriers” by Bob Welch.

The committee expressed their concern about not being notified as to the acceptance of the proposed sessions. Joe will follow-up on May 22 when he meets with the Dynamic Effects group and will report back to the session organizers. (Nick Jones, Chair of Dynamic Effects, attended the meeting later and was notified of our concerns. He promised to follow-up on the matter and will report back to Joe.)

### **4. Session topics for 2003 Structures Congress**

The Congress will be held in Seattle, Washington. Session proposals are due November 2001.

#### ***Two sessions were tentatively proposed:***

Blast resign Retrofit- Jimmy Baylot

Structural Impact- Gary Consolazio and Joe Tedesco

Many of the committee members showed a reluctance to propose any sessions until the sessions proposed for the 2002 Congress are acknowledged. Once this situation is resolved Joe will solicit interest for additional sessions.

## **5. Update on Task Committee Report**

Paul reported that 550 copies of *Structural Design for Physical Security - State of the Practice Report* have been sold as of May, 2001.

## **6. Protective Technology Center**

Ted distributed a brochure on the new Protective Technology Center at Penn State and discussed the numerous activities in which they are currently involved. The PTC was established in cooperation with the US Army ERDC and the Marine Corps Research University. It was begun in September 2000, and there are approximately 20 people associated with the center from the Civil, Aerospace, and Mechanics and Materials Departments at Penn State. Their primary activities deal with research and technology transfer for physical security, blast, shock and impact mitigation for the Department of Defense.

## **7. Future committee activities**

It was decided that the following new activities will be undertaken by the committee:

Develop a website for the Shock and Vibratory Effects Committee. Gary will head this effort for the committee.

Produce a Special Issue on Blast, Shock and Impact for the *Journal of Structural Engineering*. Barry will coordinate this activity with ASCE Journals personnel and Joe and Ted will help to identify potential authors.

Develop an ASCE standard on Design Loads for Blast for possible inclusion as a chapter in ASCE 7. The subcommittee responsible for this effort will consist of Joe Tedesco, Ted Krathammer, Sam Kiger, Jimmy Baylot and Paul Mlakar. Ted will get the standards used in the UK and Israel and will distribute them to the subcommittee for review by the end of June. The subcommittee will then meet at Penn State University at the end of the summer to discuss a plan of action.

## **8. Committee membership**

There are 18 members of the committee. Jimmy Baylot, Ted Krauthammer and Sanjeev Malushte are scheduled to rotate off September 30, 2001. The new members are Hung-Liang Chen, James Cohen, Joel Leifer and Kenneth Morrill and will serve until September 30, 2003. Gary and Darrel were requested to visit the ASCE/SEI website to download the committee membership application.

p.m.

Meeting adjourned 12:30

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