

July 28, 1998

MEETING MINUTES

IASSAR Subcommittee 1 on "Computational Stochastic Mechanics"

MEETING DATE: June 9, 1998

MEETING TIME: 6:30 p.m. to 8:00 p.m.

LOCATION: Santorini Image Hotel, Santorini

ATTENDING: Professors G.I. Schueller (Chair), W. Wedig, J. Pradlwarter, S. Sakamoto for R. Ghanem, G. Deodatis, S. Mahadevan (taken the Minutes), M. Grigoriu, L. Bergman, A. Naess, E.A. Johnson, K. Sobczyk, A. Kareem. (Apologies for inability to attend were received from Professors Der Kiureghian, Bucher and Ghanem).

DISCUSSION TOPICS:

1. Welcome of members: Members in attendance introduced themselves.
2. Organizational matters/Membership: Three new members were welcomed and introduced to the committee: Profs. Johnson, Kareem, and Mahadevan. Prof. Sobczyk resigned his membership as he felt that he could contribute more effectively to SC2 on Stochastic Dynamics.
3. The minutes of the last meeting (La Jolla, May 25, 1998) were approved without change.
4. Reports from Working Groups:
 - 4.1 Influence of stochastic computational methods on the development of design codes (Ghanem): Prof. Ghanem was unable to attend.
 - 4.2 Parallel Computing (Spencer/Bergman): Prof. Bergman informed the members of the Workshop on High Performance Computing to be held in Notre Dame on August 5, 1998, during the conference on Stochastic Dynamics and Control (SDC 98). Details are available on the conference website.
 - 4.3 Monte Carlo Simulation:

Efficient Algorithms (Pradlwarter): Prof. Pradlwarter expressed his desire to widen the scope of this effort to include a variety of problems, e.g., dynamic problems. Prof. Grigoriu suggested the inclusion of direct Monte Carlo methods as well, as these are finding applications in micromechanics and material property simulation. Members generally agreed that the scope need not be restrictive, and that the effort could benefit from valuable contributions from many areas.

Fragility Curves (Deodatis): Prof. Deodatis stated that previous mention of this topic had only been in the context of earthquakes. He felt that it is beneficial to include wind and wave loads, and the group is collecting literature in this regard.

Professor Schueller expressed the need to compile a listing of members interests, in order to match them with the appropriate working groups. This would improve the effectiveness of all the working groups.

5. Further steps and tasks: The coordinators of the working groups have agreed to provide for the next meeting in Notre Dame a preliminary draft of the concept of the working program of their groups.

6. Next meeting: It was decided to have the next meeting of the subcommittee on August 5, 1998 at 7 p.m. in Notre Dame, during the SDC 98 (Stochastic Dynamics and Control) conference.

7. The meeting was adjourned at 8:00 p.m.