

---

**International Association for Structural Safety and Reliability**  
Committee on Stochastic Methods in Structural Engineering  
Subcommittee 1: Computational Stochastic Mechanics (SC1)

---

**Minutes of Annual Meeting During ICOSSAR'05 in Rome**

**Date:** Sunday, June 19, 2005, 2:30pm – 3:30pm

**Place:** Cloister Hall (Sala Grande – Cloister North Side)

**Prepared by:** George Deodatis, Chair of SC1

**Participants:** Sanjay Arwade, Thomas Attard, Ivan Siu-Kui Au, Jim Beck, Jianye Ching, Joel Conte, George Deodatis, Armen Der Kiureghian, Roger Ghanem, Massimiliano Gioffre, Lori Graham-Brady, Achintya Haldar, Steve Koutsourelakis, Heung Fai Lam, Martini Luigi, Sankaran Mahadevan, Arvid Naess, Costas Papadimitriou, Vissarion Papadopoulos, Fabrice Poirion, M. Elie Rahhal, Gerhart Schueller, Dimitrios Vamvatsikos, Ka-Veng Yuen.

- 1) Welcome.
- 2) Arrangement of special sessions at ICOSSAR'05:

SC1 members put together a total of 15 organized sessions, including two mini-symposia. The 15 sessions are listed below.

**T1 (8.30/10.00) – Mini-Symposium ms-c1:**

(organized on behalf of National Council of Italian Engineers, ASCE Geo-Institute Risk Assessment and Management Committee & IASSAR SC1)

***"Reliability evaluation in geotechnics"***

Coordinators and chairs: K. K. Phoon, C. Cherubini

**Session 1: Geovariability / Foundations**

**T2 (10.20/11.50) – Mini-Symposium ms-c1:**

(organized on behalf of National Council of Italian Engineers, ASCE Geo-Institute Risk Assessment and Management Committee & IASSAR SC1)

***"Reliability evaluation in geotechnics"***

Coordinators and chairs: K. K. Phoon, C. Cherubini

**Session 2: Foundations / Stability and liquefaction**

**T4 (14.30/16.00) – Mini-Symposium ms-c1:**

(organized on behalf of National Council of Italian Engineers, ASCE Geo-Institute Risk Assessment and Management Committee & IASSAR SC1)

***"Reliability evaluation in geotechnics"***

Coordinators and chairs: K. K. Phoon, C. Cherubini

**Session 3: Computational methods**

**M3 (11.30/13.00) – Organized Session os-p1 (plenary):**

***"Fire-structural engineering and probabilistic aspects of the World Trade Center collapse investigation"***

Coordinator: E. Simiu  
Chairs: E. Simiu, G. Augusti

**M4 (14.30/16.00) – Organized Session os-b1:**  
***"Statistical length scale"***

Coordinators and chairs: L.L. Graham-Brady, M. Gutiérrez

**T4 (14.30/16.00) – Organized Session os-e1 - part 2:**  
***"Structural reliability software"***

Coordinators and chairs: M.F. Pellissetti, G.I. Schuëller

**W5 (16.30/18.00) – Organized Session os-c2:**  
***"Environmental load modeling and simulation"***

Coordinator: M. Giofrè

Chairs: M. Grigoriu, O. Ditlevsen

**W4 (14.30/16.00) – Organized Session os-e4 part 1:**  
***"Advanced Monte Carlo methods for reliability"***

Coordinators and chairs: S. K. Au, J. L. Beck

**W5 (16.30/17.00) – Organized Session os-e4 part 2:**  
***"Advanced Monte Carlo methods for reliability"***

Coordinators and chairs: S. K. Au, J. L. Beck

**W5 (16.30/18.00) - Mini-Symposium ms-f2:**

***"Risk modeling and loss reduction strategies for natural and technological hazards"***

Coordinator: G. Deodatis, A. S. Kiremidjian, H. Kunreuther

**Session 1**

Chairs: M. Grigoriu, P. Bazzurro

**G1 (8.30/10.00) – Mini-Symposium ms-f2:**

***"Risk modeling and loss reduction strategies for natural and technological hazards"***

Coordinator: G. Deodatis, A. S. Kiremidjian, H. Kunreuther

**Session 2**

Chairs: A. S. Kiremidjian, S. King

**G2 (10.20/11.05) – Mini-Symposium ms-f2 (semi-plenary lecture):**

Kunreuther H.

***"Catastrophe modelling: a new approach to managing risk"***

**G2 (11.05/11.50) – Mini-Symposium ms-f2:**

***"Risk modeling and loss reduction strategies for natural and technological hazards"***

Coordinator: G. Deodatis, A. S. Kiremidjian, H. Kunreuther

**Session 3**

Chairs: R. Ghanem, G. Panariello

**T4 (14.30/16.00) - Organized Session os-f1 - part 1:**  
***"Time-frequency analysis"***

Coordinator: A. Kareem

Chairs: A. Kareem, P. Spanos

**T5 (16.30/17.15) – Organized Session os-f1 - part 2:**  
***"Time-frequency analysis"***

Coordinator: A. Kareem

Chairs: F.-K. Huang, A. Kareem

**G4 (14.30/16.00) – Organized Session os-c3:**

***"Wind engineering: loads and structural response"***

Coordinators and chairs: A. Kareem, G. Solari

3) After ICOSSAR'05 is completed, SC1 is planning to start the activities of its working groups with the objective of producing state-of-the-art reports in the next two years (to be published in scientific journals). Four new working groups have been formed with the following participation from committee members (if you are still interested in participating in any of these groups, please let me know):

- ***Analysis of Stochastic Structural Systems with Very Large Number of Degrees-of-Freedom***: Ivan Siu-Kui Au, Jim Beck, Joel Conte, Dan Ghiocel, Sankaran Mahadevan, Gerhart Schueller, Jack Zhao. (Group coordinators: J. Beck and I. Au)
- ***Computational Challenges in Random Micromechanics*** (with the participation of subcommittee SC4 under its chair Professor Sobczyk): Sanjay Arwade, Massimiliano Goffre, Lori Graham-Brady, Mircea Grigoriu, Steve Koutsourelakis. (Group coordinator: Lori Graham-Brady)
- ***Risk Management of Civil Infrastructure Systems Subjected to Multiple Hazards***: Jim Beck, Mary Comerio, Rachel Davidson, George Deodatis, Ahsan Kareem, Anne Kiremidjian, Howard Kunreuther. (Group coordinator: George Deodatis)
- ***Probabilistic Approaches in Geotechnical Engineering and Geomechanics***: K.K. Phoon, Radu Popescu, Elie Rahhal. (Group coordinator: K.K. Phoon)

4) The following new members have been nominated to and approved by the umbrella chairman, Prof. Ove Ditlevsen:

- Baidurya Battacharya
- Jianye Ching
- Mary Comerio
- Rachel Davidson
- Terje Haukaas
- Anne Kiremidjian
- Vissarion Papadopoulos
- Manolis Papadrakakis
- Radu Popescu
- Elie Rahhal
- Dimitrios Vamvatsikos
- Kelvin Ka-Veng Yuen

5) Next year's meeting: two possibilities have been discussed for next year's meeting:

- *15<sup>th</sup> USNCTAM, University of Colorado, Boulder, June 25-30, 2006*
- *Computational Stochastic Mechanics 5, June 21-23, 2006*

Please let me know what is your preference between the above two venues.

6) Adjourn