



International Workshop on
Advanced Materials and Innovative
Systems in Structural Engineering:
Novel Researches
Süleyman Demirel Cultural Center
Istanbul Technical University
September 20, 2019

Institutional
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www.iwamisse2019.org



Fees:

Registration and participation are free. For participation please fill the registration form given in the website of the workshop.

Language:

The official workshop language is English.
(There will be a simultaneous translation to Turkish)

Venue:

ITU Suleyman Demirel Cultural Center,
Istanbul Technical University, Ayazaga Campus, Maslak, Istanbul/Turkey
www.sdkm.itu.edu.tr

International Scientific Committee:

Akio Kasuga	Kypros Pilakoutas
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Program / September 20, 2019 – Friday

08.45-	Registration desk opening
09.15-09.30	Opening speeches
Session 1 (90 min.)	Co-Chairs: Z. Celep & H. Luş
09.30-10.00	K. Kusunoki: “Development of a new seismic damage evaluation system based on the capacity spectrum method”
10.00-10.30	M. Teshigawara: “Full-scale seismic loading test with a WRC Structure to develop a long-duration residential house with high seismic resistance ”
10.30-11.00	A. Tasai: “Development study for low-rise residential building of masonry walls using AAC blocks”
11.00-11.15	Tea/Coffee Break (15 min.)
Session 2 (90 min.)	Co-Chairs: K. Orakçal & B. Taşkın
11.15-11.45	C. Nuti: “Repair of severely damaged columns with innovative techniques and innovative high performance concrete”
11.45-12.15	J. Kunz: “Missing Links Solutions to add reinforcement in existing concrete ”
12.15-12.45	Y. Hibino: “Prediction of torsional response of multi-story shear wall buildings and its verification ”
12.45-13.45	Lunch (60 min.)

Session 3 (90 min.)	Co-Chairs: M. A. Taşdemir & K. Darılmaz
13.45-14.15	K. Pilakoutas: “Recycling all tyre components in concrete”
14.15-14.35	I. Hajirasouliha: “Performance-based optimisation of RC frames with friction wall dampers”
14.35-14.55	M. Guadagnini: “Seismic strengthening of substandard buildings with composite materials ”
14.55-15.15	Z. Ozdemir: “Seismic vulnerability assessment of substandard RC buildings”
15.15-15.30	Tea/Coffee Break (15 min.)
Session 4 (80 min.)	Co-Chairs: O. C. Çelik & A. Uzel
15.30-15.50	A. İlki: “Development of a Framework for Rapid Earthquake Risk Assessment for Substandard Buildings in Turkey”
15.50-16.10	U. Yazgan: “Challenges in Developing Seismic Vulnerability Models for Substandard Building Stocks in Turkey”
16.10-16.30	I. Sianko: “Probabilistic Multi-Hazard Assessment Based on Monte-Carlo Simulations”
16.30-16.50	J. Thompson, M. Gunning: “Post Damage Response Management Platform”
16.50-17.05	Closing Ceremony (15 min.)