

ICCS13

TOKYO

First International Conference on Concrete Sustainability

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Organized by Japan Concrete Institute (JCI)

Co-organized by

International Federation for Structural Concrete

American Concrete Institute

International Union of Laboratories and Experts in Construction Materials, Systems and Structures





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Preface

Concrete and concrete structures are deeply involved in sustainable development, especially global environmental issues, because concrete is the second most widely consumed substances on Earth, after water. Toward the realization of a sustainable and recycling-oriented society, researchers and engineers in the world have to tackle various problems in concrete structures, i.e. extension of the service life, harmonization with nature, energy conservation, resource conservation, resource recycling, and socio-cultural inheritance.



With these social needs as a background, the first international conference only relevant to sustainability, which is the hottest topic in the twenty-first century, is held in the concrete field. 260 abstract contributions were received, and eventually 158 full papers were submitted from all over the world. Besides, the ICCS13 Organizing Committee asked writing of the lead paper and the keynote paper to the researchers and the engineers who are representing the international organizations and who have been performing remarkable activities in the specific sustainability field, respectively. In order to recognize outstanding efforts to promote sustainability in the concrete industry, three "Concrete Sustainability Awards", i.e. Best Conference Paper, Best Technical Application, and Excellent Young Researcher were selected from among 27 papers. Candidates were nominated by the scientific committee and final awardees selected by the award committee based on their strict peer reviews. I would like to give my sincere gratitude to the ICCS13 Chairman, Prof. Koji Sakai for his leadership and the members of the Organizing Committee and the Scientific Committee for their contributions. Of course, all authors of outstanding papers toward concrete sustainability are most acknowledged.

It is sure that the proceedings of this international conference are a publication which will blow a new sign into the future's concrete. It is also expected that people who listen to the presentations and read the papers would be inspired and conceive how concrete can contribute to the sustainable development.

Takafumi Noguchi

Chairman of ICCS Scientific Committee



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*The information on all committees is as of 2012.

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