The 2nd Workshop on

Durability of Reinforced Concrete under Combined Mechanical and Climatic Loads (2nd CMCL)

The major objective of the 2nd CMCL Workshop is to further contribute to the development of rational durability design by clarifying deterioration mechanisms under single action and combined actions (mechanical actions, multiple climatic actions, and simultaneous or consecutive mechanical and climatic actions) and to develop prediction methods for deterioration of materials and structures. In practice any structure is subjected to mechanical loads (actions). That means that durability of structures cannot be dealt with realistically when the influence of mechanical actions is neglected. Furthermore, knowledge on structural aspects (mechanics-related issues) and material aspects (durability-related issues) should be deepened and combined in the future. After the 1st CMCL Workshop, held in Qingdao in 2005, experts from all over the world will get together again to exchange latest information and to have in-depth discussions.

February 21, 2008

Keio Plaza Hotel, Sapporo
(N 5 W 7, Chuo-ku, Sapporo)

9:30 Opening Words
Prof. Tamon Ueda, Hokkaido University, Japan

9:50 - 10:40 “Shrinkage, crack formation, and chloride penetration into cracked concrete elements”
Prof. Folker H. Wittmann, Aedificat Institute Freiburg, Germany

10:40 - 11:30 “Carbonation of and chloride penetration into undamaged and damaged concrete”
Prof. Zhao Tie-Jun, Qingdao Technological University, China

11:30 - 11:50 Discussion

11:50 - 13:30 Lunch

13:30 - 14:20 “Remaining life prediction of repaired concrete structures under chloride environment”
Prof. Ha-Won Song, Yonsei University, Korea

14:20 - 15:00 “Study on an artificial barrier system for radioactive waste repository”
Prof. Takafumi Sugiyama, Hokkaido University, Japan

15:00 - 15:30 Poster Session (Coffee Break)

15:30 - 16:20 TBD

Prof. Koji Takewaka, Kagoshima University, Japan

16:20 - 17:00 “Damage and deterioration evaluation of concrete by mesoscopic analysis method”
Dr. Yasuhiko Sato, Hokkaido University, Japan

17:00 - 17:30 Discussion

17:30 Closing Words
Prof. Takafumi Sugiyama, Hokkaido University, Japan

18:00 Party

Registration:
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Registration Fee: Free (workshop) 6,000 yen (party)