Trilateral Seminar on Chemistry and Microbiology in Civil, Resource & Environmental Engineering between Hokkaido University, University of Applied Science Karlsruhe and Forschungszentrum Karlsruhe











September 4, 2007, Hokkaido University Conference Hall

PROGRAM

9:00-9:10 Opening Words Prof Yoshimasa Watanabe, Hokkaido University

Session I Advanced Chemical and Microbiological Approach for Water and Solid Recycling

Chairman: Dr Hisashi Satoh

9:10-9:40 Dr Satoshi Okabe Microbial source tracking by using host-specific bcateroides-prevotella genetic markers
9:40-10:10 Dr Katsuki Kimura Membrane fouling caused by organic matter in surface waters
10:10-10:40 Dr Naoki Hiroyoshi Chemical and microbiological approach for the removal, immobilization and control of hazardous metals in

contaminated soil and solid wastes

10:40-11:00 Coffee break

Session II Durability of Cement Based Composite (1)

Dr Hisashi Satoh

Chairman: Dr Yoshitaka Nara

11:00-11:30 Mr Peter Krolla-Sidenstein Potentials of molecular biologic operation methods for the characterization of microbial populations on cement based materials in drinking water reservoirs

In Situ analysis of acid production in biofilms grown on concrete in

sewer systems

12:00-13:30 Lunch

1:30-12:00

Session III Durability of Cement Based Composite (2)

Chairman: Dr Yoshihiko Kishimoto

13:30-14:00	Prof Takafumi Sugiyama	Diffusion of ions in hydrated cement system
14:00-14:30	Mr Matthias Schwotzer	Deterioration of cement-based materials in drinking water reservoirs
14:30-15:00	Prof Toyoharu Nawa	Improvement in durability of concrete structures due to microscale
		protection of concrete surface

15:00-15:20 Coffee break

Session IV New Construction and Recycling Technology

Chairman: Dr Wang Licheng

15:20-15:50	Prof Andreas Gerdes	Construction chemistry - from molecule to the construction
15:50-16:20	Dr Yasuhiko Sato	Production of high quality recycled aggregates by combined
		chemical and mechanical treatment
16:20-16:50	Dr Satoru Kawasaki	Novel grout cementing due to microbial metabolism
16:50-17:00	Closing words	Prof Tamon Ueda

- st 20 min. for presentation and 10 min. for discussion
- *Pre-registration is NOT required
- *For further information, please contact;

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