Tuesday, 23 October, 2001

9:00- Registration desk opens

9:45-9:55 Opening Session MAIN ROOM

 10:00-12:30
 Session 1"Self-compactability of fresh concrete"

 chaired by Yin-Wen Chan & Makoto Hibino
 MAIN ROOM

- Investigation on shear flow of self-compacting concrete by Zhuguo Li

- Simulation of self-compacting concrete -laboratory experiments and numerical modelling of slump flow and L-box tests *by Örjan Petersson*
- Assessment of thixotropic behavior of self compacting microconcrete by Bruno Pellerin
- Thixotropy of self-compacting concrete by Peter Billberg
- Development of the settlement column segregation test for fresh self- compacting concrete by Mark J. Rooney
- Deformability and compressive strength models for self-compacting concrete

by Somnuk Tangtermsirikul

- Rheological study on the workability of fibre-reinforced mortar by Steffen Grünewald
- Maximum content of steel fibres in self-compacting concrete by Steffen Grünewald

10:00-12:30	Session 2 "Early age & Durability"	ROOM 201
	chaired by Keun-Joo Byun & Tetsuya Ishida	I.

- Early-age creep and shrinkage in self-compacting concrete incorporating GGBFS *by* **Ha-Won Song**
- Volume changes as driving forces to self-induced cracking of Norwegian SCC

by Tor Arne Hammer

- Autogenous shrinkage of hardened cement binder in self compacting concrete structure by **Jiří Litoš**
- Effect of stability of self-consolidating concrete on the distribution of steel corrosion characteristics along experimental wall elements by **Kamal H. Khayat**
- Transport properties and durability of self-compacting concrete by Peter J. M. Bartos
- Mechanical and durability aspects of SCC for road structures by Eva Rodum
- Proposition of durability test method on concrete attacked by acid rain and test results of super quality concrete by *Hiroshi Ueda*

- Evaluation of mechanical properties and durability of super quality concrete

by Osamu Makishima

- Self-repairing function for cracks of SCC with expansive agent by Akira Hosoda

12:30-14:00 Lunch

- **14:00-15:00** Invited Lecture chaired by Toshiharu Kishi MAIN ROOM "Service life evaluation and durability design system for self compacting concrete" by Koichi Maekawa
- **15:00-15:40** Keynote Lecture chaired by Toshiharu Kishi MAIN ROOM "Utilization of new concrete technology in construction projects -future prospects of self-compacting high performance concrete" by Kazumasa Ozawa
- **15:40-16:00** Committee Report chaired by Toshiharu Kishi MAIN ROOM "A guide for manufacturing and construction of self-compacting concrete -learning from real troubles" by Yoshimitsu Nakajima
- 16:15-18:45 Session 3 "Applications" MAIN ROOM chaired by Somnuk Tangtermsirikul & Masahiro Ouchi
- Construction of rigid foundation of underground diaphragmwalls with highly congested reinforcing bar arrangement by using self-compacting concrete *by Hirokazu Inoue*
- Application of self-compacting concrete to steel segments of multi-micro shield tunneling method by **Takefumi Shindoh**
- Self-compacting concrete used for underground diaphragm walls of the world's largest 200,000 kl inground tanks at Inchon LNG terminal in Korea *by* **Takeshi Ohtomo**
- Self-compacting concrete in underground and mining applications by Joseph A. Daczko
- SCC in a rock repository for radioactive waste by Kåre Johansen
- Development and applications of self-compacting concrete in New Zealand

by Michael Khrapko

- SCC for the rehabilitation of a tunnel in Zurich/Switzerland by Frank Jacobs
- Ecological performance of self compacting concrete by Frank Jacobs
- Self-compacting concrete the way to cost effective production of buildings

by Marianne Grauers

- Development of a quality control system for self-compacting concrete by using information technology by **Daihachi Okai**

16:15-18:45 Session 4 "Construction & Concrete products" chaired by Victor C. Li & Takehiko Midorikawa ROOM 201

- The quality control method of self-compacting concrete using testing apparatus for self-compactability evaluation *by* **Masanori Kubo**
- Effect of placement and compaction on properties of placing joint by Tekehiro Sawamoto
- Forecasting pumping parameters by Gilbert Noworyta
- Study of self-compacting concrete pressure on formwork by Yannick Vanhove
- Compatibility between conventional and self-compacting concrete by David W.S. Ho
- Use of SCC to achieve improved concrete surfaces by Eivind Heimdal
- Casting with SCC, execution techniques and curing properties by Eivind Heimdal
- SCC as applied in the Dutch precast concrete industry by Wim Bennenk
- Self-compacting concrete for precast concrete products in Germany by Bernhard Hauke

18:50-20:00 Welcome Reception 1st Floor

Wednesday, 24 October, 2001

9:00 Registration desk opens

9:30-12:00 Sessions 5 "Chemical admixture" MAIN ROOM chaired by Ake Skarendahl & Toshiharu Kishi

- Improvement of the compatibility between cement and superplasticizer by optimizing the chemical structure of the polycarboxylate-type superplasticizer by *Kazuo Yamada*

- The mechanism of time dependence for fluidity of high belite cement mortar containing polycarboxylate-based superplasticizer by **Akira Ohno**
- Development of a liquid type admixture for self-compacting concrete

by Hotaka Yamamuro

- Blends of polycarboxylate-type superplasticizers in use for concrete admixtures by **Ulf Velten**
- New generation of a superplasticizer with synergetic effect by Dubravka Bjegovic
- The adsorption isotherms of sulfonated naphthalene formaldehyde (SNF) on Portland cement hydration products and its effect on the hydration kinetics of clinker minerals at high dosages *by J.B. Kazirukanyo*
- Distinction between particle-dispersion and particle-repulsion effects of superplasticizers on the viscosity of fresh mortar by **Takumi Sugamata**
- A study on the basic properties of a self-compacting concrete containing the γ-polyglutamic acid-type segregation inhibitor *by* **Manabu Kanematsu**
- Evaluation of S-657 biopolymer as a new viscosity-modifying admixture for self-compacting concrete *by Alain Phyfferoen*

9:30-12:00 Session 6 "Structural & Mechanical behaviors and Mixing" chaired by Joost C. Walraven & Xuehui An ROOM 201

- Constitutive rheological design for development of self-compacting engineered cementitious composites by Victor C. Li
- Improved durability of self-compacting concrete by addition of fibers by Martin F. Bäuml
- Study on bond characteristics of steel bar of reinforced concrete structure using super quality concrete by *Haruhito Yamamoto*
- The effects of the modified composition of SCC on shear and bond behavior by **Angelika Schiessl**

- Self-compacting concrete -time development of material properties and bond behaviour by **Dirk Weiße**

- Flexural response and performance of reinforced beams cast with self- compacting concrete by **Mohamed Sonebi**

- Effect of surface moisture of sand on fluidity of fresh mortar by Makoto Hibino
- Influence of mixing efficiency on the properties of flowable cement pastes

by **Kazunori Takada**

- 12:00-13:30 Lunch
- **13:30-14:00** Keynote Lecture chaired by *Kazumasa Ozawa* MAIN ROOM "Current condition of SCC in Japan" by *Masahiro Ouchi*
- 14:00-16:30 Invited Lectures chaired by Kazumasa Ozawa MAIN ROOM
 - 14:00-14:45 "Market acceptance of self-compacting concrete, the Swedish experience" by Áke Skarendahl
 - 14:45-15:30 "State of the art on self compacting concrete in the Netherlands" by Joost C. Walraven
 - 15:50-16:35 "The applications of SCC in Taiwan"

by Jenn-Chuan Chern

- 16:40-18:20
 Concrete Laboratory Tour
 GATHER AT ENTRANCE HALL

 Demonstration of SCC & Introduction of research activities
- 18:30-20:00 Symposium Party DINING ROOM BF

Thursday, 25 October, 2001

9:00- Registration desk opens

- 9:30-12:00 Session 7 "Characterization of material & Mix-proportioning 1" chaired by Peter J.M. Bartos & Takafumi Noguchi MAIN ROOM
- Application of "The Water Layer Model" to self-compacting mortar with different size distribution of fine aggregate by **Takehiko Midorikawa**
- Particle-matrix model based design of self-compacting concrete with lignosulfonate water reducer by Kåre Reknes
- Characterisation of fillers for SCC by Bård Pedersen
- The particle matrix model applied on SCC by Sverre Smeplass
- Limestone powder as filler in self-compacting concrete -frost resistance and compressive strength by **Örjan Petersson**
- Influence of filler characteristics on SCC rheology and early hydration by Peter Billberg
- Optimization of self-compacting concrete mixes by Iris Marquardt
- Low grade SCC with secondary natural sand rich in fines by Kåre Johansen
- Practical experience with the application of self-compacting concrete in Germany by **Thomas Eck**
 - 9:30-12:00 Session 8 "Characterization of material & Mix-proportioning 2"

chaired by Kamal H. Khayat & Kazunori Takada ROOM 201

- Consideration on filling characteristics of SCC based on fluidity of cement paste component by **Satoshi Sasaki**
- Optimization of cost-effective self-consolidating concrete by Aicha Ghezal
- A low cost self-compacting concrete by A. Bettencourt Ribeiro
- Examinations for the production of self-compacting concrete using lignite fly ashes

by Frank Dehn

- Applications of ready-made binders for self-compacting concrete (SCC) by Frank Dehn
- A new concept for improved rheological stability to allow reduction in cement content of self compacting concrete by **Jens Engstrand**
- Experimental optimization of high-strength self-compacting concrete

by Paulo C. C. Gomes

- Sand-rich self-compacting concrete by Angelika SchiessI

- Development of high volume coarse aggregate self-compacting concrete

by Joseph A. Daczko

- Development of self-compacting lightweight aggregate concrete by Harald S. Müller

12:10-12:20 Closing Session MAIN ROOM

12:30- Lunch