RCFCD
Research Center for Fluvial and Coastal Disasters
Disaster Prevention Research Institute, Kyoto University

The Center promotes in-depth studies of fluid and sediment processes that may bring about serious disasters and environmental changes, frequently through chain reactions, to watersheds, reaches, reservoirs, estuaries and coastal oceans. These studies are inherently interdisciplinary and are covered by the Center's five research sections: the Sedimentation Disasters; the River Disaster Prevention System; the Urban Flood Control; the Coastal Sedimentary Environment and the Field Research Section for Fluvial and Coastal Hazards. The Center's unique facilities are open to the partners for field and experimental studies on disaster prevention and environmental preservation in the river-coast system. With these facilities actively promoting collaborative researches, the academic staff at the Center has developed cutting-edge technology for predicting complex processes in hydrosphere, together with disaster reduction methodology.
(Visit RCFCD online at http://www.dpri.kyoto-u.ac.jp/~rcfcd/)

GCOE-HSE
Kyoto University Global Center for Education and Research on Human Security Engineering in Asian Megacities

This GCOE Program is funded by Japanese Ministry of Education, Culture, Sports, Science and Technology, in order to "strengthen and enhance the education and research functions of graduate schools, to foster highly creative young researchers who will go on to become world leaders in their respective fields through experiencing and practicing research of the highest world standard." In this five-year program, Kyoto University will establish a new discipline "urban human security engineering" and create a network of overseas bases for research and education in Asian-wide scale to foster next generation researchers and high-level practitioners. Through this program, we will contribute greatly to solving human security issues in Asian megacities.
(Visit GCOE-HSE online at http://hse.gcoe.kyoto-u.ac.jp/)
**PROGRAM**

**July 30 (Mon)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00-09:20</td>
<td>Registration</td>
</tr>
</tbody>
</table>
| 09:20-09:25 | Opening Address  
Hajime Nakagawa (Vice Director, DPRI, Kyoto University)                                           |
| 09:25-09:40 | Introduction of Disaster Prevention Research Institute, KTU  
Masaharu Fujita (Professor, Kyoto University)                                                         |
| 09:40-09:55 | Introduction of Faculty of Infrastructure Engineering, DUT  
Shiguo Xu (Professor, Dalian University of Technology)                                                  |

**Special Session1**  
Chair: Hajime Nakagawa

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 09:55-10:30 | Urban flooding with underground space  
Keiichi Toda                                                                                           |
| 10:30-11:05 | Ensemble hydrological prediction based real-time optimization of multi-objective reservoir during flood season  
Huicheng Zhou                                                                                |
| 11:05-11:15 | Break                                                                                                     |

**Special Session2**  
Chair: Masaharu Fujita

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 11:15-11:50 | Partitioning of vertical water loss in reed swamp wetlands: theory, research and application  
Shiguo Xu                                                                 |
| 11:50-12:25 | A study of three dimensional flow and sediment transport  
Sheng Jin                                                                                   |

**Technical Session1**  
Chair: Kenji Kawake

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 14:00-14:20 | Study on system-integration on flood-control decision-support system for Biliuhe Reservoir  
Guoli Wang                                                                                     |
| 14:20-15:40 | A multi-reservoir flood operating system based on fuzzy messages  
Guohua Liang                                                                                  |
| 14:40-14:55 | Effect of end-sill geometry on hydraulic characteristics of flow within stilling basin  
Mohammad Meshkati Shahmirzadi                                                                  |
| 14:55-15:10 | Numerical modeling of earth dam failure due to overtopping flow considering infiltration effects  
Hideaki Mizutani                                                                               |
| 15:10-15:25 | Upstream bed evolution after partial removal of a low head dam  
Hao Zhang                                                                                     |
| 15:25-15:40 | Break                                                                                                     |

**Technical Session2**  
Chair: Baba Yasuuki

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 15:40-16:00 | Research on hydraulic characteristics and energy dissipation of new shape overflow dam  
Yakun Liu                                                                                  |
| 16:00-16:20 | A laboratory study on the process of gravitational erosion from the steep loess slope  
Xiangzhou Xu                                                                             |
| 16:20-16:35 | Bed deformation characteristics at confluence and distributary of rivers which have different sediment characteristics  
Hiroshi Takebayashi                                                                       |
| 16:35-16:50 | Application of data mining models in prediction of scour depth around circular piles  
Samaneh Ghazanfari Hashemi                                                                 |
| 16:50-17:05 | An overview of microbial interactions with sediment dynamics  
Huiiming Zhao                                                                            |

**7:05-17:10**  
Closing Remarks  
Tetsuya Hiraishi (Professor, Kyoto University)

*Technical trips are arranged on July 31 and August 1 for overseas participants to the field observation facilities of Disaster Prevention Research Institute, Kyoto University.*