



# International Center for Urban Safety Engineering (ICUS)

Institute of Industrial Science

<http://icus.iis.u-tokyo.ac.jp>

- Urban Safety & Disaster Mitigation Division
- Environment Informatics Division
- Social Infrastructure Management Division

## Outline of ICUS

In March 2011 the International Center for Urban Safety Engineering (ICUS) concluded a ten-year period of activity. After passing the third party evaluation and institution internal evaluation, a "new" ICUS began from April 2011 with three new research divisions: "Urban Safety and Disaster Mitigation Division," "Environment Informatics Division," and "Social Infrastructure Management Division." Based upon the past activities, "promotion of advanced research," "construction of networks," and "information collection and dissemination" will be set as the main activities towards developing the safety of cities by university researchers from an international viewpoint.

### Promotion of Advanced Research



#### Urban Safety & Disaster Mitigation Division

- Urban safety and disaster mitigation strategy
- Development of disaster information sharing platform
- Development of information station for emergency management and disaster prevention
- Post-disaster urban recovery and rehabilitation planning
- Efficient and economic retrofitting method for masonry structures
- Development of disaster mitigation planning support technologies

#### Environment Informatics Division

- Realization, assessment, prediction, mitigation, and adaptation to climate change
- Improvement of water resources management
- Realization, monitoring, and conservation of biodiversity
- Urban traffic management

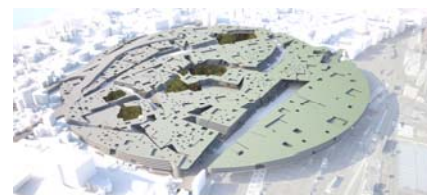
#### Social Infrastructure Management Division

- Lifecycle and stock management
- Materials property management
- Performance verification/quality assessment, ground maintenance and sustainability
- Ground improvement
- Numerical Simulation of Anchorage Performance of RC

### ICUS Project



Research on high-dense wooden structure city



3-Dimensional middle rose density dwelling model for urban block

### Construction of networks

#### Collaborative research Projects

##### RNUS (Regional Network Office for Urban Safety)

RNUS was established at the School of Civil Engineering, Asian Institute of Technology (Bangkok, Thailand) in 2002.

##### BNUS (Bangladesh Network Office for Urban Safety)

BNUS was established at the Bangladesh University of Engineering and Technology (Dhaka, Bangladesh) in 2006.



The 4th Joint Student Seminar on Civil Infrastructures in Bangkok, Thailand (August 1 and 2, 2011)

### Exchange of MOU for Collaboration



- Asian Institute of Technology, Thailand (RNUS)
- Dept. of Civil Engineering, Bangladesh University of Engineering and Technology, Bangladesh (BNUS)
- Bangladesh Earthquake Society, Bangladesh
- National Centre for Earthquake Engineering, Bangladesh
- Indian Institute of Technology Kanpur, India
- Protective Technology Research Centre, School of Civil and Environmental Engineering, Nanyang Technological University, Singapore
- Dept. of Civil Engineering, National University of Singapore, Singapore
- LCM Research Center, The Port and Airport Research Institute, Japan
- Siridorn International Institute of Technology, Thammasat University, Thailand
- Dept. of Civil Engineering, Shibaura Institute of Technology, Japan
- Global U-City Construction & Information Hub, Dept. of Civil Engineering, Han Yang University, Korea
- Dept. of Construction Engineering, National Kaohsiung First University of Science and Technology, Chinese Taipei
- Center for Public Safety Research, Tsinghua University, P.R. China
- School of Applied Sciences and Engineering, Monash University, Australia
- NSET, the National Society for Earthquake Technology, Nepal

### Information collection and dissemination

#### ICUS Open Lecture



20th Towards the establishment of safer and sustainable urban systems - the role of ICUS and prospects in Asia - and an urgent report on the East Japan Great Earthquake disaster and its implications (April 21, 2011)



21st Towards the formulation of sustainable urban infrastructure systems (joint with Hokkaido University) (October 31, 2011)

#### International Symposium (USMCA)



10th International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, (USMCA2011) at the Empress Hotel Chang Mai, Chang Mai, Thailand (October 12-14, 2011)  
149 participants (13 countries)

### ICUS Newsletters and Technical Reports

ICUS issues the "ICUS Newsletter," a periodical English publication (4 issues every year), as well as ICUS Reports, which cover various research topics, to over 1500 people in more than 70 countries, including researchers, research organizations and government-related organizations.



ICUS Newsletter and ICUS Report