Program Details for Invitation of Prof. and Students from University of Hawaii at Manoa

27 July (Monday)
9:30 - 9:45  Arrival at Saitama University (accompanied by Dr. Asamoto)
10:00 - 10:15  Meeting with staff in SU (at Meeting Room A)
              Welcome Speech by Prof. Mutsuyoshi, Head of ICGP (SU)
              Explanation of weekly schedule and discussion
11:00 - 11:15  Meeting with Dean of Faculty of Engineering in Saitama University
11:40 - 13:00 Lunch
13:00 - 17:20 Student Research Seminar
              13:00-13:10  Opening Address by Prof. Hiroshi Mutsuyoshi (SU)
              13:10-13:30  "Tsunami bore characterization" by Abdulla Mohamed (UHM)
              13:55-14:15  "Seismic Performance of a Multi-Span Continuous Highway Bridge: Effects of Modeling of Isolation Bearings" by Muhammad Abdur Rahman Bhuiyan (SU)
14:15-14:25  Break
14:25-14:50  Session II
              14:25-14:45  "Influence of Bridge Pier Strengthening on Seismic Behavior of Foundation" by Anawat Chotesuwan (SU)
              14:45-15:00  "Development of Hybrid FRP Bridges" by Kensuke Shiroki (SU)
15:00-15:20  "Performance of Corrosion Inhibiting Admixtures in Concrete Specimens Exposed to Chloride Environment" by Alex Okamura (UHM)
15:20-15:40  "Shear Behavior of Reinforced Concrete Beams Using High-Strength Concrete" by Janaka Perera (SU)
15:50-16:00  Break
16:00-17:20  Session III
              16:00-16:20  "Effect of Open Gap in Coastal Forest on Tsunami Run-up - Investigations by Experiment and Numerical Simulation" by Nguyen Ba Thuy (SU)
              16:20-16:40  "Lateral Loading on Vertical Structural Elements due to Tsunami Bore" by Jillian Santo (UHM)
16:40-17:00  "Uplift on Floor Slabs due to Tsunami Bore" by Ming Ge (UHM)
17:10-17:20  Concluding Remarks by Prof. Ian Robertson (UHM)
18:00 - 20:00 Welcome Party (Venue: “Kyara-Tei” in Saitama University)

28 July (Tuesday)
12:00 - 14:00 Field trip to construction site
              Rinkai Ohashi Bridge at Tokyo Bayside
              14:10 starting from Ariake station of Yurikamome Line
              16:40 disbanding at Shin-kiba station of Rinkai Line / Yurakucho Subway Line

29 July (Wednesday)
9:00 - 10:30 Group tour to SU labs
10:40 - 12:10 [Students] Attending the class “Environmental Vibration and Noise Assessment”
              (No.5 Seminar room on the 2nd floor of Building for Research and Project)
              [Professor] Meeting with SU faculty
12:10 - 13:00 Lunch
13:00 - 14:30 Special lecture by Prof. Robertson
              Advanced lecture on Construction Materials (c/o Dr. Shingo Asamoto)
              Topic: “Field instrumentation for concrete creep and shrinkage bridge monitoring”
              Venue: No.8 Seminar room (3rd floor of Building for Research and Project)
30 July (Thursday)
12:00 - 13:00 Lunch
13:00 - 17:50 Research Seminar by Faculties
   13:00-13:10 Opening Address by Prof. Yoshiaki Okui (SU)
   13:10-15:20 Session I (Chaired by Assoc. Prof. Yasunao Matsumoto)
      13:10-14:00 “Development of Performance Based Tsunami Engineering”
                     “Improved Durability of Coastal Infrastructure Subjected to Corrosion”
                     “Retrofit of Concrete Beams with CFRP for Flexure and Shear Strengthening”
                       By Prof. Ian Robertson (UHM)
      14:00-14:20 “Numerical Simulation for Tsunami Inundation and Damage Assessment”
                       By Assist. Prof. Kenji Harada (SU)
      14:20-14:40 “Application of Ultra High Strength Concrete to Prestressed Concrete Bridges”
                       By Prof. Hiroshi Mutsuyoshi (SU)
      14:40-15:00 “Investigation into Environmental Effects on Shrinkage and Shrinkage Cracking of Concrete”
                       By Assist. Prof. Shingo Asamoto (SU)
      15:00-15:20 “Seismic Response Analysis of Pile Foundation using 3-D Finite Element Method”
                       By Assoc. Prof. Takeshi Maki (SU)
   15:20-15:35 Break
   15:35-17:40 Session II (Chaired by Assoc. Prof. Takeshi Maki)
      15:35-16:20 “External Prestressing in RC Frames”
                       By Assoc. Prof. Kiang Hwee Tan (National University of Singapore)
      16:20-16:40 “Nonlinear Response of Superstructures Influenced by Frequency-Dependent Oscillations in Impedance Functions of Pile Groups Embedded in a Layered Soil”
                       By Assoc. Prof. Masato Saïto (SU)
      16:40-17:00 “A Case Study for Redundancy Analysis of Japanese Steel Truss Bridges”
                       By Prof. Yoshiaki Okui (SU)
      17:00-17:20 “Assessment of Vibration in Residential Environment”
                       By Assoc. Prof. Yasunao Matsumoto (SU)
      17:20-17:40 “Vibration-based Structural Health Monitoring of Steel Truss Bridges”
                       By Prof. Hiroki Yamaguchi (SU)
   17:40-17:50 Concluding Remarks by Prof. Ian Robertson (UHM)

31 July (Friday)
9:00 - 10:30 Special Lecture by Prof. Robertson (as a model lecture)
   ➢ Nonlinear Mechanics of Reinforced Concrete Structures (c/o Dr. Takeshi Maki)
   ➢ Topic: “Punching Shear Failure and Retrofit of Slab-Column Connections under Seismic Loading”
   ➢ Venue: No.31 Lecture room (1st floor of Civil Engineering Department Building)
10:30 - 12:00 Free to explore SU campus
12:00 - 13:00 Lunch
13:00 - 16:10 Forum on Education and Research in Civil Engineering at Graduate Schools
   13:00-13:10 Opening Address by Prof. Hiroki Yamaguchi, Dean of Faculty of Engineering (SU)
   13:10-13:50 Session I (Chaired by Assoc. Prof. Yasunao Matsumoto)
       Introduction of current postgraduate education in US and Japan (masters course)
       “Overview of Masters course in CEE” at each university (20 mins. each)
       by Assoc. Prof. Yasunao Matsumoto and Assist. Prof. Djoen San Santoso (SU)
       by Prof. Ian Robertson (UHM)
   13:50-14:20 Session II (Chaired by Assoc. Prof. Yasunao Matsumoto)
       Student discussion on master course
       Presentations given by:
       Ms. Ming Ge, Ms. Jillian Santo and Mr. Alex Okamura (UHM)
       Mr. Masahiro Toriu, Mr. Taichu Fudamoto, Mr. Khawaja Adeel Tariq (SU)
   14:20-14:40 Break
   14:40-15:00 Session III (Chaired by Prof. Hiroshi Mutsuyoshi)
       Introduction of current postgraduate education in US and Japan (doctoral course)
       “Overview of Doctoral course in CEE” at each university (10 mins. each)
       by Prof. Mutsuyoshi (SU)
       by Prof. Ian Robertson (UHM)
15:00-15:30 Session IV (Chaired by Prof. Hiroshi Mutsuyoshi)
Student discussion on doctor course
Presentations given by:
Mr. Abdulla Mohamed (UHM)
Ms. Aya Kojima and Mr. Nguyen Duc Hai (SU)

15:30-16:00 Session V Chaired by Prof. Hiroshi Mutsuyoshi
General discussion (if time allows)

16:00-16:10 Concluding Remarks by Prof. Hisashi Kubota, Chair of Department of Civil and Environmental Engineering (SU)

Student Research Seminar (27th July)

Opening Address by Professor Mutsuyoshi, Chair of ICGP (SU)

Presentation by student of UHM
Presentation by student of SU

Field trip to construction site, Rinkai Ohashi Bridge (28th July)
Tour to SU Laboratories (29th July)

At Structural Material Laboratory
Students Attendance to a class of SU “Environmental Vibration and Noise Assessment” (29th July)

Lecture at class room

Vibration Testing Practice

Special Lecture by Professor Robertson (29th July)
“Field instrumentation for concrete creep and shrinkage monitoring”

Research Seminar by Faculties (30th July)

Opening Address by Professor Okui (SU)

Presentation by Professor Robertson (UHM)
Model Lecture by Prof. Robertson, UHM (30th July)
“Punching Shear Failure and Retrofit of Slab-Column Connections under Seismic Loading”

Forum on Education and Research in Civil Engineering at Graduate Schools (30th July)

Opening Address by Prof. Yamaguchi, Dean of Faculty of Engineering (SU)

Presentation by Master Student of SU
Presentations by Master students of UHM

Discussion

Concluding Remarks by Prof. Kubota, Chair of Department of Civil and Environmental Engineering (SU)