List of participants from Saitama University

<table>
<thead>
<tr>
<th>Faculties</th>
<th>Graduate Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Hiroshi Mutsuyoshi</td>
<td>Ayumu Otsuka</td>
</tr>
<tr>
<td>Prof Norio Tanaka</td>
<td>Yusuke Suzuki</td>
</tr>
<tr>
<td>Dr Ken Kawamoto</td>
<td>Takako Matsunaga</td>
</tr>
<tr>
<td></td>
<td>Kenji Iizuka</td>
</tr>
<tr>
<td></td>
<td>Iimura Kousuke</td>
</tr>
<tr>
<td></td>
<td>Tsuda Nobuhiko</td>
</tr>
<tr>
<td></td>
<td>Tomoaki Matsushita</td>
</tr>
</tbody>
</table>

Program Details

**January 26, 2008 (Saturday)**
Arrival of visitors

**January 27, 2008 (Sunday)**
15:00–17:00 Field Visit to Construction site (Iceland Residencies)
18:00– Dinner hosted by Saitama Alumni

**January 28, 2008 (Monday)**
09:00 Meeting with the Vice-Chancellor
09:30–10:15 Inaugural Session
Discussion with Dean/Engineering, Head/Civil Eng. and staff members
Lab visits for Students from Saitama University
10:15–10:45 Tea
10:45–12:15 Continuation of the discussion with Head/Civil Eng. and Staff
Continuation of Lab visits
12:15–13:30 Lunch
13:30–15:30 Guest Lecture by Professor Hiroshi Mutsuyoshi (to Level 4 under graduate students)
15:30–15:45 Tea
15:45–16:30 Continuation of Lab visits
17:15–19:15 Special lecture at IESL (Institute of Engineers Sri Lanka) for students from Saitama University

**January 29, 2008 (Tuesday)**
Symposium (PDF)
January 30, 2008 (Wednesday)
(Departure: Professor Hiroshi Mutsuyoshi at 09:30 from Katunayake
Arrival: Dr. Ken Kawamoto at 08:15)

Morning session (9.00-12.00)
Presentations on current research projects conducted by UOM staff

<table>
<thead>
<tr>
<th>Time</th>
<th>Laboratory</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00~9.25</td>
<td>Building and Structural Engineering</td>
<td>Prof. M.T.R. Jayasinghe</td>
</tr>
<tr>
<td>9.25~9.50</td>
<td>Construction Eng. Management</td>
<td>Dr. Asoka Perera</td>
</tr>
<tr>
<td>9.50~10.15</td>
<td>Environmental Engineering</td>
<td>Dr. Mahesh Jayaweera</td>
</tr>
<tr>
<td>10.15~10.40</td>
<td>Geotechnical Engineering</td>
<td>Prof. Athula Kulathilake</td>
</tr>
<tr>
<td>10.40~11.05</td>
<td>Hydraulic Engineering</td>
<td>Dr. Saman Samarawickrama</td>
</tr>
</tbody>
</table>

Presentations on current research projects conducted by Saitama University staff

<table>
<thead>
<tr>
<th>Time</th>
<th>Laboratory</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.05~11.30</td>
<td>Environmental and Hydraulic Laboratory</td>
<td>Prof. Norio Tanaka</td>
</tr>
</tbody>
</table>

Afternoon Session (13.30 ~16.30)
Discussion on general topics
Moderators: Prof. Norio Tanaka, Dr. Ken Kawamoto
Topic I: Mitigation of natural disasters like floods, landslides and tsunami
Topic II: Green building concept

January 31, 2008 (Thursday)
Morning Session Field trip to Muthurajawela
Afternoon Session Field trip to Attidiya Wet Park

February 1 & 2, 2008 (Friday & Saturday)

For PG course in Structural Eng. and Design&Soil Mechanics Laboratory
Date: 1 Feb 2008 (Friday)
Time: 9.00-11.00
Lecturer: Dr. Ken Kawamoto

For PG course in Project Management
Date: 2 Feb 2008 (Saturday)
Time: 13.30 -15.30
Lecturer: Prof. Norio Tanaka
Graduate Students from Saitama University attend the following PG lectures conducted by University of Moratuwa staff

**Time Table of PG Lectures**

<table>
<thead>
<tr>
<th>Course</th>
<th>1 Feb 2008</th>
<th>2 Feb 2008</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8.30-11.30</td>
<td>2.30-5.30</td>
</tr>
<tr>
<td>M.Eng. /PG Dip. in Structural Eng. Design</td>
<td>Guest Lecture</td>
<td>Design of Steel structures</td>
</tr>
<tr>
<td>MSc/PG Dip. in Construction Project Management</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>MBA/PG Dip. in Project Management</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

**February 3, 2008**

Departure
DEVELOPMENT OF SUSTAINABLE INFRASTRUCTURES IN ASIA

Proceedings of

International Collaborative Graduate Symposium
between Saitama University, Japan and University of Moratuwa, Sri Lanka

University of Moratuwa
28 January-2 February, 2008
Symposium Programme
January 29, 2008

08.30 - 08.35 Lighting of traditional oil lamp

08.35 - 08.40 Welcome address by Head/Dept of Civil Engineering, Prof. Priyan Dias

08.40 - 08.50 Address by Dean/ Faculty of Engineering, Prof Ananda Jayawardane

08.50 - 09.00 Address by Prof. Norio Tanaka

09.00 - 09.30 Keynote Address by Prof. Hiroshi Mutsuyoshi

09.30 - 10.00 Tea

10.00 - 12.00 Session I

10.00 - 10.15 DIFFERENCES OF TREE-BREAKING PATTERN AND ITS MOMENT AT RIVER FLOODS AND TWO TSUNAMIS UNDER DIFFERENT SUBSTRATE CONDITION
Norio Tanaka and Junji Yagisawa

10.15 - 10.30 EVALUATION OF TSUNAMI DEFENSE EFFECTS BY COASTAL TREE SPECIES ON TSUNAMI RUN-UP HEIGHT AND CURRENT VELOCITY REDUCTION
Kosuke Iimura and Norio Tanaka

10.30 - 10.45 FLOW THROUGH COASTAL VEGETATION AND TSUNAMI IMPACT MITIGATION
S. Bandara H. Ratnasooriya, S. Samarawickrama and S.S.L. Hettiarachchi

10.45 - 11.15 Discussion

11.15 - 11.30 ENHANCEMENT OF HEAVY METAL REMOVAL FROM WASTE WATERS IN SSF CONSTRUCTED WETLANDS COMPRISING CRUSHED CLAY TILE MEDIA
M. Jayaweera, K.P.S. Randeniya, W.A.U. Witharana, and J. Manatunge

11.30 - 11.45 STUDY FOR DIFFERENCE IN GROWTH CHARACTER BETWEEN THE SALIX SPECIES IN THE RIVER
Nobuhiko Tsuda and Yasushi Sasaki

11.45 - 12.00 Discussion

12.00 - 13.00 Lunch
13.00-15.00  Session II

13.00-13.15 DEVELOPMENT OF NEW HYBRID COMPOSITE GIRDERS CONSISTING OF CARBON AND GLASS FIBERS
Hiroshi Mustuyoshi, Nguyen Duc Hai, Shingo Asamoto, Thiru Aravinthan

13.15-13.30 ECONOMICAL FLOOR TRUSS TOP CHORD FOR ACHIEVING LONG SPANS
S.V.T.J. Perera

13.30-13.45 INFLUENCE OF ENVIRONMENTAL FACTORS ON SHRINKAGE BEHAVIOR OF CONCRETE
Ayumu Otsuka, Shingo Asamoto and Hiroshi Mustuyoshi

13.45-14.15 Discussion

14.15-14.30 EXPERIMENTAL STUDY ON SHEAR TRANSFER CHARACTERISTICS OF FIBER REINFORCED CONCRETE
Takako Matsunaga, Fumie Wakisaka and Takeshi Maki

14.30-14.45 COMPARATIVE STUDY OF PERFORMANCE OF DIFFERENT ROOFING TYPES FOR INDOOR THERMAL COMFORT IN RESIDENTIAL BUILDINGS
Rangika Halwatura and Thihan Jayasinghe

14.45-15.00 Discussion

15:00~15:30 Tea

15.30-17.00  Session III

15.30~15.45 A FRAMEWORK FOR EDUCATED TRADE-OFFS
Bhadranie Thoradeniya, Malik Ranasinghe, NTS Wijesekera

15.45-16.00 SOIL-GAS DIFFUSION COEFFICIENT AND AIR CONDUCTIVITY FOR PEAT SOIL: EFFECT OF VOLUME SHRINKAGE WITH SUCCESSIVE DRAINAGE
Kenji Iizuka, Ken Kawamoto, Per Moldrup and Toshiko Komatsu

16.00-16.15 Discussion

16.15-16.30 EVALUATION OF FEASIBILITY OF ULTRA THIN WHITETOPPING PAVEMENTS FOR RESURFACING INTERSECTIONS/PEDESTRIAN CROSSINGS
Janaka V. Kosgolla, Wasantha Kumara, and Mang Tia

16.30-16.45 IMAGE ANALYSIS FOR ESTIMATING THE DISPLACEMENT FIELD OF ROCK
Tomoaki Matsushita, and Masahiko Osada

16.45-17.00 PSEUDODYNAMIC TEST ON STRENGTHENED REINFORCED CONCRETE PIER
Yuhsuke Suzuki and Hiroshi Mustuyoshi

17.00-17.15 Discussion
モラトゥワ大学学長との意見交換

睦好教授による特別講義（1）

睦好教授による特別講義（2）

田中教授による特別講義

セミナーでの講義（田中教授）
アドバンストインターンシップ（高層ビル現場見学）

参加者

M1 学生による社会基盤特別研究Ⅰの英語による発表

M1 学生による社会基盤特別研究Ⅰの英語による発表

M1 学生による社会基盤特別研究Ⅰの英語による発表

M1 学生による社会基盤特別研究Ⅰの英語による発表