Program: Part 1

Dec. 14 (Wed.)

09:00-17:00 Registration

Session 1: Plenary – Opening Ceremony and Keynote addresses -

(lunch time) 11:30-13:00

Session 2-1: Mechanism and future probability of the 2004 Giant Earthquake and Tsunami in Indian Ocean

| and Tsunan | and Tsunami in Indian Ocean | | |
|----------------------------|---|--|--|
| Chairperson: Kenji Satake, | | | |
| 13:00-13:15 | [P1-2-1-1] Tsunami hazard and vulnerability along the Myanmar coast | | |
| | Kenji Satake, Than Tin Aung, Yuki Sawai, Yukinobu Okamura, Kyaw Soe Wing, Win Swe, | | |
| | Chit Swe, Tint Lwin Swe, Soe Thura Tun, Maung Maung Soe, Thant Zin Oo, and Saw Htwe | | |
| | Zaw | | |
| 13:15- 13:30 | [P1-2-1-2] Coseismic uplift of the Andaman Islands associated with the Sumatra-Andaman | | |
| | Earthquake of 2004 and the recurrence history of gigantic earthquakes | | |
| | Hajime Kayanne, Yasutaka Ikeda, Tomoo Echigo, Masanobu Shishikura and Takanobu | | |
| | Kamataki | | |
| 13:30-13:45 | [P1-2-1-3] Ongoing efforts to understand the style of deformation and the seismic/tsunami | | |
| | history of the Andaman-Nicobar region C. P. Rajendran and Kusala Rajendran | | |
| 13:45-14:00 | [P1-2-1-4] Coseismic Land-level changes caused by 26 December, 2004 Sumatra earthquake | | |
| | in Andaman and Nicobar Islands, India | | |
| | Javed N. Malik and C.V.R. Murty | | |
| 14:00-14:15 | [P1-2-1-5] Macroseismic, tsunami surveys and GPS monitoring in Andaman and Nicobar | | |
| | Islands in the aftermath of the Great Mw9.0 earthquake of 26th December 2004 – a brief | | |
| | appraisal | | |
| | Ashish Kumar Ghosh Roy, Prasun Jana, Sandeep Bardhan, Shaikh Rezaul Basir, Tapan | | |
| | Ghosh, Thiruvalluvar Saranathan Giritharan, Pranab Chakraborty and Dulal Chandra Ghosh | | |
| 14:15-14:30 | [P1-2-1-6] Earthquake Disaster Mitigation Initiatives in Myanmar | | |
| | Than Myint | | |
| 14:30-14:45 | [P1-2-1-7] Current Situation on Modern and Paleo-seismology in Myanmar | | |
| | Than Myint and Win Swe | | |
| 14:45-15:00 | [P1-2-1-8] Characteristics of Post-seismic relaxation in Andaman-Nicobar region from | | |
| | continuous GPS measurements | | |
| | C. D. Reddy, Sanjay K Prajapati, Teruyuki Kato | | |
| (coffee break: | 15:00-15:15) | | |
| 15:15-15:30 | [P1-2-1-9] Kinematics of the 2004 Great Sumatra Earthquake from Static Co-seismic GPS | | |
| | Offsets | | |
| | Paramesh Banerjee, Roland Burgmann and Fred Pollitz | | |
| 15:30-15:45 | [P1-2-1-10] Crustal deformation associated with the 2004 Sumatra earthquake from GPS | | |
| | observation | | |

Agustan, Irwan Meilano, Yasaku Oota, Takeo Ito, Fumiaki Kimata,

| | Dudy Darmawan, Heri Andreas, Hasannudin Z. Abidin, Mipi A. Kusuma, |
|-------------|---|
| | Didik Sugiyanto, Takao Tabei |
| 15:45-16:00 | [P1-2-1-11] Postseismic deformation of 2004 Sumatra earthquake from continuous GPS |
| | observation in Aceh |
| | Didik Sugiyanto, Yasaku Ohta, Irwan Meilano, Takeo Ito, Fumiaki Kimata and Takao Tabei |
| 16:00-16:15 | [P1-2-1-12] Seismological Activities, Tsunami Effect and Prevention in Myanmar |
| | Myint Soe |
| 16:15-16:30 | [P1-2-1-13] The rupture process of 2004 Sumatra-Andaman Earthquake viewing from the |
| | data obtained by the strainmeters of JMA |
| | Yasuhiro Yoshida and Hidemi Ito |
| 16:30-16:45 | [P1-2-1-14] Changes in seismicity associated with the Sumatra earthquake and their |
| | implications for the stress state |
| | Masajiro Imoto, Shozo Matsumura, Shin'ichi Noguchi and Sachiko Tanaka |
| 16:45-17:00 | [P1-2-1-15] Mechanism of the 2004 great Sumatra-Andaman earthquake estimated from |
| | tsunami waveforms |
| | Yuichiro Tanioka, Sin-Iti Iwasaki, Yoshinobu Tsuji, Yuichi Nishimura, Hiroyuki Matsumoto, |
| | Syusaku Inoue, Yuichi Namegaya, and Yudhicara |
| 17:00-17:15 | [P1-2-1-16] Development of Indonesia Permanent Sea Level Monitoring Network For |
| | Supporting Indian Ocean Tsunami Warning System |
| | Parluhutan Maurung |
| | |
| 17:20-17:50 | Press Briefing |
| | |

(Reception: 18:00-20:00 : DVD show by Mikio Satomura(Shizuoka Univ.))

Session 2-2 (Joint): Human resource program for the education and outreach

| | ation program and urban design |
|-----------------|---|
| Chairperson: Hi | |
| 13:00-13:15 | [P1-2-2-1] Report on the Post-Tsunami Reconstruction Condition in Sri Lanka affected by |
| 13.00 13.13 | 2004 Sumatra Tsunami |
| | Osamu Murao, Hideaki Nakazato, and Nihal Rupasinghe |
| 13:15-13:30 | [P1-2-2-2] Post Tsunami Construction, Rehabilitation & Restoration Program in Sri Lanka |
| 10.10 10.00 | Nihal Rupasinghe and A A Virajh Dias |
| 13:30-13:45 | [P1-2-2-3] Identification of tsunami wave loads based on damage assessment of road structures |
| | in Sri Lanka due to the 2004 Giant Earthquake and |
| | Tsunami in the Indian Ocean |
| | Gaku Shoji, and Yoichiro Mori |
| 13:45-14:00 | [P1-2-2-4] Damage of Infrastructures Caused by December 2004 Great Earthquake |
| | and Tsunami in Aceh Region Indonesia |
| | Agussalim |
| 14:00-14:15 | [P1-2-2-5] Tsunami Questionnaires and Bridge Damage Surveys in Banda Aceh for City |
| | Restoration Planning and Urban Design |
| | Hirokazu Iemura, Yoshikazu Takahashi, Pariatmono Sukamdo, Mulyo Harris Pradono, and |
| | Rudi Kurniawan |
| 14:15-14:30 | [P1-2-2-6] The Challenge of Rehabilitation and Reconstruction of Banda Aceh City |
| | Taufiq Saidi and Elysa Wulandary, MT |
| 14:30-14:45 | [P1-2-2-7] Damage and Restoration of Lifeline in Thailand due to the 2004 Giant Earthquake |
| | and Tsunami in the Indian Ocean |
| | Shiro Takada, Yasuko Kuwata and Arun Pieta |
| (coffee break: | 14:45-15:00) |
| | oshun Yamaoka, |
| 15:00-15:15 | [P1-2-2-8] Human Resource Program for Education and Outreach Agenda: Possibilities in |
| | India and Sri Lanka |
| | Hirotsune Kimura |
| 15:15-15:30 | [P1-2-2-9] Restoration and Urban Design in relation to Habaraduwa Township in Galle |
| | District : A Sociological Perspective |
| 15.00 15.45 | Imaduwa V. Edirisinghe |
| 15:30-15:45 | [P1-2-2-10] Community Base Action in costal forest rehabilitation in Tsunami effected area of |

| | Aceh Province, Indonesia |
|-------------|--|
| | Helmi Thomin |
| 15:45-16:00 | [P1-2-2-11] Sustaining Community Outreach Programmes : Learning from past experiences |
| | Manu Gupta, Anshu Sharma, Suman Nag and Manisha Munjal |
| 16:00-16:15 | [P1-2-2-12] Establishment Plan of Aceh Heritage Tsunami Estate (AHTE) |
| | Hasanudin Z. Abidin |
| 16:15-16:30 | [P1-2-2-13] Tsunami Risk Awareness in the Affected Communities |
| | Tetsushi Kurita |
| 16:30-16:45 | [P1-2-2-14] Strengthening Communities Through Partnership – The ADRRN Model |
| | Aishah Mohd Amin |
| 16:45-17:00 | [P1-2-2-15] Education on the Earthquake Disaster Reduction for International Students in |
| | Japan |
| | Koshun Yamaoka, Keiji Doi and Satoru Suhara |
| | |

(Reception: 18:00-20:00 : DVD show by Mikio Satomura(Shizuoka Univ.))

Session 2-3: Effective tsunami warning system and mitigation

| | mihiko Imamura, |
|----------------|---|
| 13:00-13:15 | [P1-2-3-1] Field Investigation of the 2004 Indian ocean tsunami on the affected coast |
| | Fumihiko Imamura, Shunichi Koshimura, Kazuo Goto, Hideaki Yanagisawa and Yoko |
| | Iwabuchi |
| 13:15-13:30 | [P1-2-3-2] Jawa-Sumatran Tsunamis, their Modeling, and Mitigation |
| | Hamzah Latief, Safwan Hadi, Haris Sunendar, Aditya R. Gusman, and Fumihiko Imamura |
| 13:30-13:45 | [P1-2-3-3] Forecasting of tsunami amplitudes by the Neuro-genetic algorithm |
| | Seree Supharatid |
| 13:45-14:00 | [P1-2-3-4] Sedimentation from the December 26 th 2004 South Asia tsunami in northern |
| | Sumatra, Indonesia |
| | Andrew Lathrop Moore, Yuichi Nishimura, Takanobu Kamataki and Guy Gelfenbaum |
| 14:00-14:15 | [P1-2-3-5] Comparing the Tsunamis of 2004 and 2005 in West Sumatra, Indonesia |
| | Jose C. Borrero, Bruce Jaffe, Brian McAdoo, Gegar Prasetya and members of the |
| | International Tsunami Survey Team (ITST) |
| 14:15-14:30 | [P1-2-3-6] Tsunami warning system in Japan |
| 14001445 | Shin'ya Tsukada |
| 14:30-14:45 | [P1-2-3-7] Effect of earthquake rupture mechanism on tsunami generation and propagation |
| | -Toward examination of a possible tsunami warning system applicable to M9 earthquakes - |
| 14.45 15.00 | Kenji Hirata |
| 14:45-15:00 | [P1-2-3-8] Offshore Tsunami Monitoring Network Design using GPS Buoys and Coastal on-site Sensors |
| | Toshihiko Nagai |
| (coffee break: | 15:00-15:15) |
| 15:15-15:30 | [P1-2-3-9] Proposal for Tsunami Study Program by KORDI |
| 13.13-13.30 | Sok Kuh Kang, Sung-Dae Kim, and Hee Do Ahn |
| 15:30-15:45 | [P1-2-3-10] Development of the nationwide tsunami information network in the central and |
| 13.30-13.43 | south pacific ocean in Mexico |
| | José Miguel Montoya Rodriguez and Toshihiko Nagai |
| 15:45-16:00 | [P1-2-3-11] Current Status of Indonesian Tsunami Early Warning Systems |
| 13.13 10.00 | Pariatmono and Santosa Y. Warsono |
| 16:00-16:15 | [P1-2-3-12] Tsunami Damage to Oil Storage Facilities in Aceh Province, Sumatra, Indonesia |
| | Yozo Goto |
| | |
| (Recention: 18 | R-00-20-00 · DVD show by Mikio Satomura) |

(Reception: 18:00-20:00 : DVD show by Mikio Satomura)

Poster [P1-p-1] Learning tsunami disasters through the puppet play "The Fire of Inamura (Rice

Sheaves)"

Tadashi Kojima, Mikio Satomura, Kunio Ozawa and Waniko

Poster [P1-p-2] The seismic gap south off Sumatra and active period of the seismicity along the plate

boundary between India-Australian and Eurasian plates

Yuzo Ishikawa

Dec. 15 (Thu.)

9:00-14:00 Registration

Session 3: Plenary – interdisciprinary presentations –

[P1-3-0-1] Sea bottom shattered by the Sumatra-Andaman Earthquake of 26th December 9:00-9:15 Wonn Soh, Yusuf S. Djajadihardja, Yudi Anantasena, Kohsaku Arai, Eiichiro Araki, Safri Burhanuddin, Toshiya Fujiwara, Nugroho D. Hananto, Kenji Hirata, Hananto Kurnio, Hideaki Machiyama, Badrul K. Mustafa, Christian Müller, Leonardo Seeber, Kiyoshi Suyehiro and Kazuki Watanabe 9:15-9:30 [P1-3-0-2] Understanding the nature of giant earthquakes and tsunamis in Sumatra-Andaman to restore and establish safer cities around the Indian Ocean Danny Hilman Natawidjaja, Kerry Sieh, Richard Briggs, Mohammed Chlieh, Jean-Philippe Avouac, Jehuda Bock, Linnette Prawirodirdjo, Robert McCaffrey, Cecep Subarya, John Galetzka, and Bambang W. Suwargadi 9:30-9:45 [P1-3-0-3] The 2004 Indian Ocean tsunami along the Indian coast: Observed sea levels, run-ups, extent of source region, and future plans

S.S.C. Shenoi

[P1-3-0-4] Learning from the 2004 Indian Ocean tsunami – Buildings damage and clues for 9:45-10:00

tsunami resistant design

Panitan Lukkunaprasit¹⁾ and Anat Ruangrassamee¹⁾

(coffee break: 10:00-10:30)

Session 3-1: Mechanism of the 2004 Giant Earthquake and Tsunami in Indian Ocean

Chair Person: Kenji Satake (AIST., Japan)

10:30-10:45 [P1-3-1-1] Changes in Geomagnetic Transfer Functions: Pre and Post Sumatra earthquake

PB V Subba Rao and CD Reddy

10:45-11:30 Discussion

Session 3-2 (Joint): Human resource program for the education and outreach and Restoration program and urban design

Chairperson: Koshun Yamaoka (ERI, Japan)/Hirokazu Iemura(Kyoto Univ., Japan)

10:30-10:45 [P1-3-2-1] Gender and Socioeconomic Analysis of Alleviating and Preventing Tsunami

Affected Society: A Case Study from Sri Lanka and India

Hisae Nakanishi

10:45-11:00 [P1-3-2-2] Mitigation of tsunami impact on lifelines

C. Scawthorn

11:00-11:30 Discussion

Session 3-3: Effective tsunami warning system and mitigation

Chairperson: Fumihiko Imamura (Tohoku University)

10:30- 11:30 Discussion

(lunch time: 11:30-13:00)

Session 4: Plenary – session summary and action plan toward future

Chairperson: Eisuke Fujita (NIED, Japan)

Kenji Satake (AIST, Japan) Summary of Subgroup and discussion 13:00-13:15 13:15-13:30 Koshun Yamaoka (ERI, Japan) Summary of Subgroup and discussion Fumihiko Imamura (Tohoku Univ., Japan) Summary of Subgroup and discussion 13:30-13:45

Hirokazu Iemura (Kyoto Univ., Japan) Summary of Subgroup and discussion 13:45-14:00

(14:00-14:15 Coffee Break)

14:15-15:55 Free discussion and adoption of action plan 15:55-16:00 Closing address Teruyuki Kato (ERI, Japan) Announcement for the International Symposium by Fujita

(16:00 Adjournment of the Workshop)

16:05-16:35 Press Briefing

Program: Part 2

Dec. 16 (Fri.)

| 10:00-10:05 | Opening Address | Tsuneo KATAYAMA (NIED, President) |
|--------------|------------------|-----------------------------------|
| 10:05-10:20 | Guest Speech | Yuichi ONO (UN/ISDR) |
| 10:20-10:35 | Guest Speech | (MEXT) |
| 10:35-11:05 | Invited Speech | |
| | [P2-0-1] Toshibu | ni Sakata (AESTO, Chair & CEO) |
| 11:05-11:50 | Keynote Speech | |
| | [P2-0-2] Kiyoshi | Kurokawa (SCA,Secretary General) |
| | | |
| (lunch time) | 11:50-13:00 | |

Session 1: Disaster report and Needs of the Affected Countries

| [P2-1-1] The December 2004 Sumatran Tsunami: An effort to established |
|---|
| national hazard mitigation program |
| Herry Harjono and Jan Sopaheluwakan |
| [P2-1-2] Disaster Management and Risk Mitigation: India's Experiences and |
| Future Needs |
| Prem P. Pangotra |
| [P2-1-3] Natural disasters in Bangladesh: GoB's disaster management framework |
| for reducing damages |
| Monirul Hoque |
| [P2-1-4] Thailand: After its worst tsunami |
| Adichat Surinkum |
| [P2-1-5] Rapid Assessments on the Physical Impacts of the 26 th Dec 2004 |
| Tsunami along the Northwestern Coastline of Malaysia Peninsular |
| Tajul Anuar Jamaluddin and Ibrahim Komoo |
| |

(coffee break: 14:40-15:00)

Session 2: Proposals for disaster reduction framework in view of Science & Technology

| 15:00-15:20 | [P2-2-1] Mechanism and future probability of the 2004 Giant Earthquake and |
|------------------|--|
| | Tsunami in Indian Ocean |
| | Kenji Satake, Teruyuki Kato, Hidemi Ito, Masajiro Imoto and Sin-Iti Iwasaki |
| 15:30-15:50 | [P2-2-2] Education and promotion for increasing disaster preparedness |
| | Koshun Yamaoka, Hirotsune Kimura and Tetsushi Kurita |
| 15:50-16:10 | [P2-2-3] Effective Tsunami Warning System and Mitigation |
| | Fumihiko Imamura, Shinya Tsukada, Kenji Hirata, Norihiko Nagai |
| 16:10-16:30 | [P2-2-4] Vulnerability of Infrastructures against the Sumatra Earthquake and |
| | Tsunami and their Restoration Program |
| | Hirokazu Iemura |
| 16:30-16:50 | General Discussion |
| | |
| (close at 16:50) | |

(Reception 18:00 – 20:00)

Dec. 17 (Sat.)

Session 3: Lessons from Disaster Fields and Needs for Higher Disaster Coping Capacity

| Chair Person: H | aruo Hayashi (Kyoto, U., Japan) |
|-----------------|---|
| 9:00- 9:30 | [P2-3-1] Not Child's Play: Taking Another Look at Vulnerability in the Light of |
| | the Indian Ocean Tsunami and Hurricane Katrina |
| | Greg Bankoff |
| 9:30-10:00 | [P2-3-2] Motivation and Capacity Building for Disaster Reduction |
| | Kenji Okazaki |
| 10:00-10:30 | [P2-3-3] Matching Goods and People: Emergency Assistance Under Uncertainty |
| | Jin Sato |
| 10:30-11:00 | [P2-3-4] Recovery of Aceh Post-Tsunami: Lesson Learnt and Challanges |
| | Saifuddin Bantasyam |
| 11:00-11:30 | [P2-3-5] Community based to disaster prevention and management |
| | Ravadee Prasertcharoensuk |
| 11:30-12:00 | [P2-3-6] Potential For Incorporating Coping Capacities In Community Based |
| | Disaster Management |
| | Manu Gupta and Anshu Sharma |
| (lunch time: | 12:00-13:15) |
| 13:15-13:45 | [P2-3-7] Empowerment of Coastal Community in Risk Reduction - Bangladesh |
| | Experience |
| | B.M.M. Mozaharul Huq |
| 14:15-14:45 | [P2-3-8] Strategy for disaster prevention and reduction |
| | Haruo Hayashi |
| 14:45-15:15 | [P2-3-9] How to strengthen Disaster Coping Capacity of a community and a State |
| | Masayuki Watanabe |
| 15:15-15:40 | Discussion |
| (coffee break: | 15:40-16:00) |

<u>Session 4: For Sustainable Development in Affected Countries – Needs in Research Works and Practices (Panel Discussion)</u>

16:00-16:45 Co-chair: Tsuneo Katayama (NIED, Japan) and Greg Bankoff (Univ. of

Auckland)

Panelists: Haruo Hayashi (Kyoto, U., Japan), Kenji Satake (AIST, Japan),

Ir.H. Sarwidi (the Islamic Univ. of Indonesia), Jostacio Lapitan(WHO, WKC)

16:45-16:55 Proposals from the symposium Tsuneo Katayama (NIED, Japan)

16:55-17:00 Closing address

17:00 Adjournment of the Symposium)