

## NEWS

Dr. A. Sangawa, Active Fault Research Center, National Research Institute of Advanced Industrial Science and Technology (AIST), was appointed to a guest professor at the Institute of Industrial Science, University of Tokyo. He specializes the "Seismo-archaeology".

Professor K. Konagai attended the executive board meeting of the International Consortium on Landslides, June 24 – 28, Plague, Czech.

Professor K. Konagai was dispatched to Iran as the leader of the JSCE Reconnaissance Team of the June, 22, 2002, Changureh Earthquake. During his stay in Iran (July 22 - Aug. 2), he paid a courtesy visit to CEST on July 30, Tuesday, for making a brief report of the survey, and discussed with Mr. Rasool Zargar, Counsellor of Tehran Mayor in Disaster Management, and Mr. A.A. Moinfar, executive advisor of Center of Earthquake & Environmental Studies of Tehran (CEST), which points of this earthquake were to be emphasized for enhancing robustness of the urban systems in Tehran.

Professor K. Konagai attended the Fifth Multi-lateral Workshop of the EqTAP (Earthquake and Tsunami Disaster Mitigation in Asia – Pacific Region), Dec. 2-4, Bangkok, Thailand.

Professor K. Konagai, Dr. Naoya Yamaguchi and Professor C.H. Chen, National Taiwan University, investigated a trench excavated across the Cher-Lung-Pu fault on Feb. 10, 2003. The fault was activated in the Sept. 21, 1999, Chi-Chi earthquake, Taiwan.

Professor K. Konagai, together with Prof. Kimiro Meguro and Professor Muneo Hori, Earthquake Research Institution, University of Tokyo, organized the 2nd Workshop on Seismic Fault-induced Faultures, Feb. 22, 2003, at IIS, University of Tokyo.

Professor K. Konagai made an investigation trip to the Valley Fault System, Philippines, on March 20 - 21, 2003, and provided a lecture at Philippine Institution of Volcanology and seismology.

Professor Y. NAKANO stayed at the University of Texas at Austin during the period of March 28, 2002 to January 31, 2003 as a Visiting Research Fellow. He presented "Post-earthquake Damage Assessment of RC Buildings in Japan" in the Structures Seminar - CE 397 held at UT Austin on November 6, 2002.

Dr. Y. Sanada, Research Associate, stayed at the University of California at Davis to discuss a collaborative research project with Prof. S. Kunnath for one month from the middle of October 2002. He also visited the University of Texas at Austin to discuss issues related to performance based seismic design with Profs. J. Jirsa and Y. Nakano, and attended ACI Fall 2002 Convention at Phoenix, Arizona.

Professor J. Koseki attended 4th Forum on Implications of Recent Earthquake on Seismic Risk held in Tokyo, 27 - 29 May 2002.

Professor J. Koseki and Mr. N. Kato attended Seventh International Conference on Geosynthetics held in Nice, France, 22 - 27 September 2002.

Professors K. Konagai and J. Koseki visited Dalian University of Technology, China on 28 November 2002 to attend the symposium in commemoration of the 15th anniversary of the corporation activities between DUT and IIS.

Professor K. Ohi received the 2002 AIJ Prize from the Architectural Institute of Japan for his contribution to building science by a series of studies on ultimate seismic load effects on steel frames. He gave a special lecture commemorating this award at the Annual Convention of AIJ held in Kanazawa, August 2002.

Professor K. Ohi attended the International Workshop on Smart Structural System organized for US-Japan Cooperative Research Programs on Smart Structural Systems (Auto-adaptive Media) and Urban Earthquake Disaster Mitigation, held in Tsukuba, October 2002, and presented his paper.

Professor K. Ohi attended the Structural Engineers World Congress (SEWC 2002) held in Yokohama, October 2002. He chaired a session of Performance-based Design, and presented his paper.

Professor K. Ohi was invited to the Southeast Asia Steel Construction Seminar 2002 held in Hanoi, Vietnam, and in Manila, Philippine, November 2002. This seminar was organized by the Japan Iron and Steel Federation (JISF) and the Japanese Society of Steel Construction (JSSC) to promote international exchange in research on steel structure technology. He gave a keynote lecture titled "The Past, Present and Future of Steel Buildings in Japan."

Research Associate Dr. Seung-Jae Lee finished his two-year sabbatical stay at the University of California at Berkeley, US. He moved to start his new academic career as Assistant Professor at Korea University of Technology and Education, Chungnam, South Korea, from March 2003.

Professor Fumio Yamazaki visited Dhaka, Bangladesh, from March 22nd to 24th, 2002. He delivered a lecture on three topics: 1) Application of Remote Sensing and GIS to Disaster Management, 2) Seismic Monitoring and Damage Assessment of Urban Lifeline Systems, 3) Microtremor Observation in Bangkok Basin, at Bangladesh University of Engineering and Technology (BUET). National Centre for Earthquake Engineering (NCEE), Bangladesh, organized this seminar as one of its inaugural activities.

Prof. F. Yamazaki attended Metro Manila Case Study (MMCS) meeting of EQTAP (Development of Earthquake and Tsunami Disaster Mitigation Technologies and its Integration for the Asia-Pacific Region) project held in Metro Manila, the Philippines, held on June 18, 2002. EQTAP is a multi-lateral research project sponsored by Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. The workshop was jointly organized by and Earthquake Disaster Mitigation Research Center (EDM), Miki, Japan and Philippine Institute of Volcanology and Seismology (PHIVOLCS).

Prof. F. Yamazaki and Mr. Rabin Tuladhar, Research Associate of Asian Institute of Technology (AIT), visited Dhaka, Bangladesh from June 30 to July 2, 2002. They conducted microtremor observations of ground and buildings in Dhaka, as a joint research with Dr. Mehedi A. Ansary, Associate Professor of BUET.

Prof. F. Yamazaki, Mr. R. Tuladhar and Miss Trinh Thi Phin, Graduate Student of AIT, visited Gujarat State of India from August 9 to 14, 2002 to collect ground truth data of the January 26th, 2001 Gujarat Earthquake. After the earthquake, several earth observation satellites, e.g., IKONOS, Landsat 7, RADARSAT, observed the affected area. In this field survey, they visited typical hard-hit areas and observed damaged structures to examine the applicability of satellite images for damage detection.

Prof. F. Yamazaki and Mr. Gabriel Calle, Graduate Student, attended the 7th United States National Conference on Earthquake Engineering, held in Boston, Massachusetts, USA from July 21st to 25th, 2002, and presented their papers: "Application of Automated Damage Detection of Buildings due to Earthquakes by Panchromatic Television Images" and "Seismic Observation System for a Building and Surrounding Ground in Komaba Research Campus of the University of Tokyo", respectively.

Prof. F. Yamazaki and Mr. R. Tuladhar, Mr. L. Hadiyono Jaqin, Graduate Student of AIT, visited Surabaya, Indonesia from October 11th to 14th, 2002. They conducted microtremor observations of ground in Surabaya City. Prof. Yamazaki also made a lecture entitled "New Technologies for Seismic Damage Assessment of Urban Areas" at Petra Christian University on October 12th.

Prof. F. Yamazaki and Mr. R. Tuladhar, Mr. Nhu Nguyen Hong Cuong, Graduate Student of AIT, visited Hanoi, Vietnam from October 31st to November 3rd, 2002. They conducted microtremor observations of ground and buildings in Hanoi and visited several research organizations to gather earthquake hazard related information.

Professor F. Yamazaki attended the fifth Multi-lateral Workshop on Development of Earthquake and Tsunami Disaster Mitigation Technologies and its Integration for the Asia-Pacific Region held in Bangkok, Thailand on December 2 and 3, 2002. He served as the local organizer of the workshop and a session chairman of the working group: Development of vulnerability assessment methods applicable to Asia-Pacific region.

Mr. Yoshihisa Maruyama, Graduate Student, attended the Joint Workshop on US-Japan Cooperative Research in Urban Earthquake Disaster Mitigation, held in Long Beach, California, USA, on January 6th, 2003, and presented his paper: "Automobile Drivers' Responses to Strong Seismic Motion based on Driving Simulator Experiments."

Prof. F. Yamazaki, Dr. Masayuki Kohiyama, Research Associate, Dr. Masashi Matsuoka, Deputy Team Leader of EDM, and Mr. Miguel Estrada, Graduate Student, attended to Peru-Japan Joint Workshop on Earthquake and Tsunami Technology for the Asia Pacific Region, held at Japan-Peru Research Center for Earthquake Engineering and Disaster Mitigation (CISMID), Faculty of Civil Engineering, National University of Engineering in Lima, Peru on February 24th, 2003, and presented their papers: "Seismic Microzonation of the Greater Bangkok Using Microtremor Observation," "GIS Database Approach to Risk Awareness Survey," "Earthquake Damage Detection using Satellite SAR Data," and "Evaluation of the Capability of Landsat 7/ETM+ Imagery for Damage Detection Due to 2001 Atico Peru Earthquake,"

respectively.

Professor F. Yamazaki attended the Metro Manila Case Study (MMCS) meeting of EQTAP project held in Metro Manila, the Philippines on March 5th and 7th, 2003. The workshop was jointly organized by EDM and PHIVOLCS. The March 5 workshop was entitled “EdM-EqTAP Stakeholder’s Workshop for an Earthquake Safe City of Manila” and local stakeholders from Manila City joined it as well as EQTAP researchers from Section 1, headed by Prof. Yamazaki. The March 7 EqTAP-MMCS workshop intended to exchange information between research groups of MMCS.

Professor F. Yamazaki attended the International Guidance and Oversight Team (IGOT) of EQTAP project held in Queenstown, New Zealand on March 20th and 21st, 2003. In the meeting, international advisory members and section managers of EQTAP discussed on the activities and research plan of EQTAP project.

Dr. M. Kohiyama attended the 7th United States Japan Urban Earthquake Mitigation Workshop, held in Maui, Hawaii, USA in from March 24th to 26th, 2003, served as a co-chair of a concurrent session, and presented his paper: “Evaluation of Seismic Diagnosis Methods for Wooden Housing Intended for Web Service.”

Professor Kimiro MEGURO visited New York from February 24 to March 3, 2003 with his two Ph. D students, Ms. P. Mayorca and M. Yoshimura to investigate the structural and social damage due to September 11 attack to the World Trade Center at Lower Manhattan, NY, USA. This is a US-Japan collaborative research project. Japan team was supported by the Ministry of Education, Science and Technology of Japan and US team was supported by The National Science Foundation and National Institute of Standards and Technology, US. Prof. Y. Kawata from Disaster Prevention Research Institute, Kyoto University, headed the Japanese Reconnaissance Team. The team was composed of four groups (A to D) with 43 members from various universities, national research institutes and the private sector. Prof. Meguro was the leader of group A whose mission was to investigate structural damage mechanism, malfunction of lifeline systems and their response activities.

Professor K. Meguro visited Teheran, Iran from 4 to 18 April 2002 as leader of the preliminary survey for JICA Project “The Comprehensive Master Plan Study on Urban Seismic Disaster Prevention and Management for Tehran City in the Islamic Republic of Iran”. This is a succeeding project of “The Study on Seismic Microzonation of Great Tehran, Iran” in which he was the chairperson of the advisory committee. He visited the counter-part offices and met key persons in order to exchange information and judge the preparation situation of Iran side regarding this project. Finally, Prof. Meguro signed an agreement by which the Iranian counterpart compromised to strengthen its organization from both facility and manpower viewpoints and establish the steering, technical advisory, and implementation committees. These conditions were deemed necessary for making good supporting system for the new project. Prof. Meguro visited Tehran again from August 31 to September 5 as chairperson of the project advisory committee. He started the project and gave a special lecture on this project and lessons learnt from recent earthquakes in the world.

Professor K. Meguro was invited to attend the WSSI (World Seismic Safety Initiative) Workshop on Earthquake Related Insurance and Financial Risk Management held in St. Petersburg, Russia. He gave a lecture entitled “Financial Losses Due to Kobe Earthquake” as an invited keynote speaker.

Professor K. Meguro visited Boulder Colorado, USA, with his Ph. D. student, Ms. M. Yoshimura to participate in the US Natural Hazard Conference from 14 to 17 July 2002. He gave a presentation with the title “Proposal of New Style Manual for total disaster management” at the US-Japan session and exchanged information.

Professor K. Meguro visited Istanbul and Ankara from 21 to 31 July 2002 as co-leader of the Japan Bank for International Cooperation (JBIC) Project Team. The main purposes of this project called Special Assistance for Project Implementation (SAPI) for Emergency Earthquake Recovery Loan are to study the detailed utilization of the Counterpart Fund of JBIC’s Emergency Earthquake Recovery Loan by reviewing the activities, the Turkish Earthquake Recovery Program and the Disaster Prevention Program, and making recommendations on future assistances toward the areas of earthquake recovery and disaster prevention, on a basis of the analysis of the above-mentioned studies. Prof. Meguro executed this project and visited again Turkey to report the results of the study from 24 November to 1 December 2002. He proposed a new Retrofit Promotion System to the Turkish Government, a part of which is published in this volume.

Professor K. Meguro visited Bangkok, Thailand, from October 26 to 30 2002. He attended the International

Symposium on New technologies for urban safety of mega cities in Asia on 28 October. Prof. T. Uomoto, Director of ICUS (International Center for Urban Safety Engineering, succeeding INCEDE), Profs. F. Yasuoka, S. Misra, R. Oka, and Y. Kato and Drs. S. Ochi and D. Dutta, and many ICUS members joined the workshop. Prof. F. Yamazaki also joined the workshop from Thailand side participant as he was working at AIT up to March 2003. Many VIPs such as H.E. Mr. Suriya Jungreangkit, Transport Minister, Transport Ministry, Thailand, H.E. Mr. Kenzo Yoneda, Senior Vice-Minister, Cabinet Office, Japan, and Prof Jean-Louis Armand, President, AIT also participated in this international symposium.

Professor K. Meguro was invited to Chulalongkorn University and gave a special lecture on New Technologies for Urban Disaster Risk Management on 29 October. He introduced some research activities and results on "New style manual for implementation of proper disaster countermeasures" and "New method for detecting damage by power supply changes".

Professor K. Meguro attended the Board of Director's Meeting of WSSI (World Seismic Safety Initiative) of IAEE (International Association for Earthquake Engineering) held at Singapore in 7 and 8 December 2002. Before the meeting, he visited Mumbai, India, from 4 to 5 December with other WSSI Board Members (Prof. H.C. Shah of Stanford University, Dr. T. Katayama, Director General of NIED, and Mr. S. Ohya, Chairman of Board of OYO Corporation) to attend WSSI workshop on Professional Issues for Earthquake Safety of Built Environment. He made a presentation on Licensing Issues in Japan for Architect, Engineers & Contractors as invited speaker.

Professor K. Meguro attended the 8<sup>th</sup> US-Japan Workshop on Earthquake Resistant Structure Design of Lifeline Facilities and Countermeasures against Liquefaction held on 16-18 December 2002 at Tokyo, Japan. He made one presentation entitled "Dynamic Simulation of Base Fault Motion for Studying Ground Surface Deformation" and his co-author, Mr. F. Ueha also made a presentation on: Damage Assessment of Railway Structures Using Numerical Simulation and Vibration Measurements.

Professor K. Meguro attended the Asian Conference on Disaster Reduction 2003, - Living with Risk: Towards Disaster Resilient Societies-, held in Kobe from 15 to 17 January 2003. He made a speech entitled "My Understanding of an Integrated Urban Earthquake Disaster Management System" as one of invited speakers.

Professor K. Meguro attended the Kobe Memorial Conferences held in Kobe on 30 and 31 January and held in Yokohama on 6 and 7 February 2003. During the conference held in Kobe, he organized the 3<sup>rd</sup> Workshop for "Comparative Study on Urban Earthquake Disaster Management". US and Japanese researchers involved in US-Japan cooperative research project on understanding recovery process and disaster response activity by multi-media technology exchanged information and research outcomes. At Yokohama conference, Prof. Meguro gave a lecture on a new style disaster management manual.

Professor K. Meguro attended the 2<sup>nd</sup> Workshop on Seismic Fault-induced Failures held in IIS on 22 February 2003. This workshop was supported by special research committee of JSCE on Seismic Fault-induced Failures and EQTAP project, Development of Earthquake and Tsunami Disasters Mitigation Technologies and Its Integration for the Asia-Pacific Region. In this workshop, lively discussion was done on the possibility of establishment of active fault law among all participants composed of seismologists, geologists, earthquake engineers, structural engineers, and administrative officials. Prof. Meguro made a presentation with the title "Dynamic Simulation of Base Fault Motion for Studying Ground Surface Deformation."

Professor K. Meguro visited Maui, Hawaii, USA with his two Ph D students Ms. M. Yoshimura and Mr. S. Kondo to attend the 7<sup>th</sup> US-Japan workshop on Urban Earthquake Disaster Mitigation. He made a presentation and chaired the session, High tech countermeasures for mitigation and response, including smart buildings and monitoring technologies, robotics, remote sensing and damage assessment.

Professor K. Meguro has published 61 technical papers including conference papers in 2002. Among them, 21 papers were written in English and are listed in this volume. Newspapers have introduced and reported his various research topics and outputs 13 times in 2002. He has given special lectures as an invited lecturer 16 times in Japan and 10 times in other countries such as Iran, Russia, Turkey, Thailand, India, US, etc.

During the year 2002 from Prof. Meguro's research group, students listed below won prizes. Ms. M. Enomoto and Mr. S. Fujita won the prize for best presentation at the JSCE annual conference in 2002. Ms. P. Mayorca and Mr. P. Bishnu won the prize for best presentation at the JSCE International Summer Symposium. Ms. M. Yoshimura won the Best research paper of the year by young researcher from the

