

## News

Professor K. Konagai visited Turkey on September 10-18 to investigate the damage caused by the Kocaeli Earthquake of Aug. 17, 1999, and exchanged information with Dr. Derin Ural, Assoc. Professor, Middle East Technical University, regarding future collaborations.

Professor K. Konagai visited Taiwan on October 1-5 to investigate the damage caused by the Ji-Ji Earthquake of Sept. 21, 1999.

Professor K. Konagai, as an international advisory committee member, attended the ITU-IAHS International Conference on the Kocaeli Earthquake of 17 August 1999, Istanbul, Turkey, Dec. 1999.

Professor K. Konagai attended the 12th World Conference on Earthquake Engineering, Auckland, New Zealand, Feb., 2000.

Professor K. Konagai visited the Earthquake Engineering Center, National Taiwan University, on Feb. 25-29 and exchanged information with Prof. Chen Cheng-Hsing and Prof. Lee Tim-Hau regarding future collaborations.

Professor Y. Nakano attended fib task group meeting on "Fastenings to Concrete and Masonry" held in Paris, France, during May 13 and 14, 1999.

Professor Y. Nakano was invited to the First International Seminar on Safety and Maintenance of Infrastructures held in Seoul, Korea, during June 9 and 10, 1999, and presented a keynote lecture on seismic retrofit of building structures in Japan.

Professor Y. Nakano was dispatched to Turkey during September 5 through 19, 1999 as a technical expert of JICA, and cooperated with Turkish government and Istanbul Technical University to develop a quick inspection procedure of RC apartment buildings damaged due to 1999 Kocaeli Earthquake.

Professor Y. Nakano was dispatched to the central Taiwan during October 13 through 21, 1999 as a member of the damage reconnaissance team of Architectural Institute of Japan (AIJ) to investigate the hardest-hit areas due to 921 Taiwan Chi-chi Earthquake.

Professor Y. Nakano was dispatched to the central Taiwan during November 18 through 28, 1999 as the leader of the AIJ technical cooperative team on reconstruction strategy of buildings damaged due to 921 Taiwan Chi-chi Earthquake, and compiled a technical guide for temporary restoration of damaged RC school buildings and held a technical seminar based on the guide.

Professor Y. Nakano was invited to the ESnS International Seminar on 921 Taiwan Ji-Ji Earthquake Disaster and Seismic Retrofit Techniques of Buildings held in Seoul, Korea, on December 9, 1999.

Dr. K. Kusunoki attended US-Japan Workshop on Performance-Based Design Methodology for Reinforced Concrete Building Structures held in Maui, Hawaii, USA, during August 31 through September 5.

Dr. K. Kusunoki was dispatched to Turkey as a member of AIJ earthquake disaster reconnaissance team during September 6 through 16, 1999, and surveyed areas damaged due to 1999 Kocaeli Earthquake.

Dr. Waon-Ho YI, Professor of Kwangwoon University in Seoul, Korea, started one year stay at Nakano Laboratory (January 5, 2000 - February 28, 2001) for a collaborative research on the development of seismic capacity evaluation and retrofit schemes of RC buildings in Korea.

Prof. Y. Nakano, Drs. K. Kusunoki and K-S Lee attended the 12th World Conference on Earthquake Engineering held at Auckland, New Zealand during January 30 through February 4, 2000.

Dr. Kang-Seok Lee visited Taiwan to attend the Japan-Taiwan Workshop on Urban Earthquake Disaster Mitigation and to survey the damaged areas due to 921 Chi-chi Earthquake, 1999, during February 27 through March 3, 2000.

Mr. Nathan C. Gould, doctoral research assistant, Washington University in St. Louis, USA, visited Kawaguchi Laboratory, on March 7-16, 1999, to exchange information regarding structural mechanics. Dr. Gould gave a lecture titled "Mechanistic Models and Supporting Experimentation for Design of Composite-Confining Concrete Columns" in the lecture-meeting supported by the Foundation for the Promotion of Industrial Science. He visited Kajima Technical Research Institute, Obayashi Corporation Technical Research Institute and Takenaka Research and Development Institute with Dr. A. Nishida and some graduate students in Kawaguchi Laboratory during his stay in Japan.

Associate Professor K. Kawaguchi participated in the 40th Anniversary Congress of the IASS held in Madrid, Spain, on September 20-24, 1999. He presented a paper titled "A New Retractable Membrane System".

Associate Professor K. Kawaguchi attended the meeting on spatial structures held in St. Louis, USA, on Oct.29-Nov.7, 1999, with Prof. Phillip L. Gould and Prof. S. Sridharan, Washington University in St. Louis. They discussed about the recent research about spatial structures in United States and Japan. After meeting, He visited some laboratories in Washington University and exchanged information regarding spatial structures.

Prof. Tibor Tarnai, Dept. of Structural Mechanics, Technical University of Budapest, Hungary, visited Chiba Experiment Station on November 12th, 1999, the day of open house. He visited Kawaguchi Laboratory and exchanged information on spatial structures and structural mechanics.

Dr. Charis J. Gantes, assistant professor of structural engineering, National Technical University of Athens, Greece, visited Kawaguchi Laboratory, on November 13-21, 1999, to exchange information regarding deployable structures. Dr. Gantes gave a lecture titled "Morphology, analysis and design of deployable structures" in the lecture-meeting supported by the Foundation for the Promotion of Industrial Science. He also gave a lecture of the same contents in the group meeting on plate structures. He visited Takenaka Research and Development Institute with Mr. S. Oya and graduate student H. H. Lee during his stay in Japan.

Dr. Simon D. Guest, lecturer, Dept. of Engineering, University of Cambridge, UK, visited Kawaguchi Laboratory, on January 9-15, 2000, to exchange information regarding deployable structures. Dr. Guest gave a lecture titled "Origami, Balloons and Tape Measures: New Concepts for Deployable Structures in Space" in the lecture-meeting supported by the Foundation for the Promotion of Industrial Science. He also gave a lecture of the same contents in the group meeting on plate structures. He visited Kajima Technical Research Institute and Takenaka Research and Development Institute with Prof. Kawaguchi and Dr. A. Nishida during his stay in Japan.

Prof. Kwan, Korea, participated in memorial seminar of prof. Hangai held at Sanjyo Conference Hall in Hongo Campus on July 15, 1999. Over 150 persons together and discussed about shape analysis. He visited Kawaguchi Lab. during his stay in Japan.

Professor J. Koseki attended 2nd International Conference on Earthquake Geotechnical Engineering held in Lisbon, Portugal, 21 - 25 June 1999.

Professor J. Koseki and Mr. K. Hayano attended 11th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering held in Seoul, Korea, 16 - 20 August 1999.

Professor J. Koseki and Mr. K. Hayano attended 2nd International Conference on Pre-failure Deformation Characteristics of Geomaterials held in Torino, Italy, 28 - 30 September 1999.

Professor J. Koseki and Mr. K. Hayano visited Taiwan on 12 - 15 December 1999 to survey damage to earth

structures by the Chi-Chi earthquake.

Professor K. Ohi attended 'The Second International Seminar on New Technologies in Construction and Earthquake Resistant Design of Structures,' held in Lima, Peru, and served as an invited speaker together with Prof. V. V. Bertero from US., Prof. M. Sarrazin from Chile, and Prof. O. Cardona from Colombia, on March 26 and 27, 1999.

Professor K. Ohi and Research Associate Dr. S.-J. Lee attended 'The First International Symposium on Steel Structure,' held in Taegu, Korea, and served as invited speakers together with Prof. R. Planck from UK on December 3, 1999.

Professor S.-J. Chen of National Taiwan University of Science and Technology, Taiwan, visited IIS and made his presentation on steel connections in the IIS Foreign Researcher's Seminar held on January 24, 2000.

Professor K. Ohi and Research Associate Dr. S.-J. Lee attended 12WCEE held in Auckland, New Zealand, from January 31 to February 5, 2000 and presented their papers.

Professor K. Meguro visited Milan, Italy, to attend the 1st Italy-Japan Workshop on Earthquake Engineering during the period of June 20-25, 1999. He made a presentation and exchanged information on experience from recent earthquakes. The title of his presentation was 'How the hazard and analysis has changed in Japan after recent earthquakes and which suggestions can be given to enhance available methods.'

Professors K. Meguro and A.S. Herath from INCEDE attended the United Nations IDNDR conference held at Geneva, Switzerland, from 4 to 8 of July 1999. They made a report on 'Technology for Natural Disaster Reduction' with United Nations University and gave a speech on it.

Professor K. Meguro visited Boulder Colorado, USA, to participate in the US Natural Hazard Conference from 11 to 15 July 1999. He gave a presentation with the title of 'New philosophy for Safety Design of Urban Space and Facilities from the Viewpoint of Evacuation Behavior of Users.

Professor K. Meguro attended the 7th US-Japan Workshop on Earthquake Resistant Structure Design of Lifeline Facilities and Countermeasures against Liquefaction held on 14-18 August 1999 at Seattle, USA. He made two presentations, chaired a session and exchanged information.

Professor K. Meguro visited Turkey from 6 to 14 September as an official member of Japanese reconnaissance team headed by Prof. Ken Sudo, Director of INCEDE. The team was financially supported by Japanese Government. The Ministry of Science, Education, Sports and Culture dispatched a survey team, composed of 15 experts, for investigating the earthquake disaster and for learning lessons from the disaster.

Professor K. Meguro visited Taiwan as one of the JSCE (Japan Society of Civil Engineers) reconnaissance team from 1 to 5 October 1999. He investigated the damage to lifeline system, especially power system and ill function due to power outage.

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 from 4 to 6 December 1999. After the meeting, he visited Yangon, Myanmar with other WSSI Board Members (Prof. H.C. Shah of Stanford University, Prof. Sheldon Cherry, President of IAEE from British Columbia University, Dr. W. Dong from RMS and Mr. S. Ohya, President of Oyo Corporation) to attend High Level Meeting. Prof. Meguro made a presentation on lessons learned from recent earthquakes, especially Kocaeli and Kobe Earthquakes.

Professor K. Meguro visited Auckland to participate in the 12th World Conference on Earthquake Engineering from 29 January to 7 February 2000. He submitted five papers and served as a chairman of the session of Seismic Response Program.

Professor Ken Sudo visited Turkey as the Leader of Monbusho team for reconnaissance of the Kocaeli

earthquake of 17 August, 1999, 6 -13 September, 1999

Professor Ken Sudo held the 16th Open Lecture of INCEDE on Disaster technology, 29 November, 1999 at IIS

Professor Ken Sudo lectured on economical impact of natural disasters, The foundation for the promotion of industrial science, 10 March 2000

Professor F. Yamazaki and Dr. O. Murao, attended the 6th Japan/United States Workshop on Urban Earthquake Hazard Reduction held in Kobe, Japan from January 11 to 14, 1999.

Professor F. Yamazaki, Dr. O. Murao, Mr. N. Yamaguchi, Graduate Student, attended APSSRA 99 (Asian-Pacific Symposium on Structural Reliability and its Applications) held in Taipei, Taiwan, Republic of China from January 31 to February 4, 1999.

Professor F. Yamazaki visited Los Angeles and San Francisco, California, USA from March 7 to 13, 1999 as a part of the bilateral research project: the US-Japan Cooperative Research in Urban Earthquake Disaster Mitigation, sponsored by Ministry of Education, Science, Culture and Sports, Japan and US National Science Foundation. Together with Prof. S. Midorikawa of Tokyo Institute of Technology, Prof. S. Iwai of Hiroshima Institute of Technology, Prof. S. Sadohara of Yokohama National University, and Dr. T. Kato of University of Tokyo, he visited California Institute of Technology (CalTech), University of Southern California (USC), Stanford University, USGS, RMS, FAA, University of California, Berkley, EQE International, EERI, and exchanged information on the use of advanced technologies in the urban earthquake disaster mitigation.

Professor F. Yamazaki, Dr. M. Matsuoka and Mr. H. Aoki of the Earthquake Disaster Mitigation Research Center (EDM), RIKEN, visited Los Angeles, California from May 4 to 9, 1999 to discuss on the use of remote sensing technologies in disaster mitigation with the US researchers in this field. They visited CalTech and EQE International and had discussion on their continuing research collaboration.

Professor F. Yamazaki, Dr. M. Matsuoka and Mr. Y. Ohkuma of EDM, RIKEN, visited Thailand and the Philippines from June 24 to July 1, 1999 as a part of the multi-lateral research project: Development of Earthquake and Tsunami Disaster Mitigation Technologies and its Integration for the Asia-Pacific Region (EQTAP), sponsored by Science and Technology Agency. In Thailand, they visited Asian Institute of Technology, Bangkok and had discussion on remote sensing technologies with the researchers of Asian Center for Research on Remote Sensing (ACRoRS). In the Philippines, they visited Philippine Institute of Volcanology and Seismology (PHIVOLCS), Metro Manila and had discussion on future research collaboration in EQTAP project. They also visited Lingayen Gulf region and Baguio City with PHIVOLCS researchers to investigate the stage of reconstruction from the 1990 Luzon earthquake.

Professor F. Yamazaki attended IUGG 99 (International Union of Geodesy and Geophysics) held in Birmingham, England from July 19 to 26. He delivered a talk on a super dense seismic network.

Professor F. Yamazaki and Mr. H. Yamanouchi, Graduate Student, attended the 5th US Conference on Lifeline Earthquake Engineering held in Seattle, Washington, USA from August 12 to 14, 1999. They delivered three presentations on bridge fragility, dense seismic monitoring, and application of driving simulator. Prof. Yamazaki also attended the Seventh U.S.-Japan Workshop on Earthquake Resistant Design of Lifeline Facilities and Countermeasures Against Soil Liquefaction, held in Seattle from August 15 and 17, 1999. He presented a paper on site amplification in this workshop.

Professor F. Yamazaki visited Urumqi, China with the group of Koide Laboratory of Urban Engineering, University of Tokyo from September 18 to 23, 1999. They had discussions with the Chinese Authorities on the use of GIS to disaster management.

Professor F. Yamazaki visited Turkey from September 28 to October 5, 1999 together with several researchers from EDM and US researchers supported by MCEER. They performed a unique survey of the Kocaeli,

Turkey Earthquake on August 19, 1999, from the viewpoint of ground truth of satellite images.

Professor F. Yamazaki visited Taiwan from October 16 to 18, 1999 together with Dr. M. Matsuoka and Mr. H. Aoki of EDM in order to carry out a field survey of the Chichi, Taiwan Earthquake on September 21, 1999.

Professor F. Yamazaki attended the Task Force Meeting of EQTAP project held in Metro Manila on November 29 and 30, 1999. He also participated in the second International Earthquakes and Megacities Workshop from December 1 to 3, 1999 held in Manila and delivered an invited lecture on remote sensing technologies for disaster management.

Professor F. Yamazaki and Mr. I. Tamura, Graduate Student, visited Taipei, Taiwan from December 22 to 24, 1999. They conducted microtremor observation in Taipei basin at the seismic stations of Taipei Gas Co., where the accelerograms were recorded in the Chi-chi Earthquake.

Professor F. Yamazaki attended the Joint Workshop on US-Japan Cooperative Research in Urban Earthquake Disaster Mitigation held in Menlo Park, California, USA on January 6, 2000. He made a presentation on "Remote sensing technologies for earthquake damage detection and inventory development."

Professor F. Yamazaki was invited to the EQECAT conference held in Fort Myers, Florida, USA from January 17 to 19, 2000 as an invited panelist. He delivered a lecture entitled "Advancements in seismic hazard and risk assessment in Japan."

Professor F. Yamazaki, Dr. O. Murao, Dr. K. T. Shabestari, Post Doctoral Research Fellow, Mr. N. Yamaguchi, Graduate Student, attended the 12 WCEE from January 31 to February 4, 2000 held in Auckland, New Zealand.

Professor F. Yamazaki attended the Japan-Taiwan Workshop on Earthquake Hazard Mitigation held in Taipei, Taiwan on February 28 and 29, 2000. He presented on the results of the 4-year research project "Real-time control of civil infrastructures in seismic disasters", one of the planned research projects of "Fundamental research on the Mitigation of Urban Disasters caused by Near-field Earthquakes", the Grant in Aid for Scientific Research on Priority Areas, headed by Prof. K. Toki of Kyoto University.

Professor F. Yamazaki attended the Second Multi-lateral Workshop on Development of Earthquake and Tsunami Disaster Mitigation Technologies and its Integration for the Asia-Pacific Region held in Kobe on March 1 and 2, 2000. He served as a session chairman of the working group: Disaster Risk Assessment and Management.

Professor F. Yamazaki attended U.S.-Japan Workshop: Effects of Near-Field Earthquake Shaking held in San Francisco, California, USA on March 20 and 21, 2000.

Prof. Yamazaki and Dr. O. Murao, attended 6th Japan/United States Workshop on Urban Earthquake Hazard Reduction held in Kobe, Japan from January 11 to 14, 1999.

Professor F. Yamazaki, Dr. O. Murao, Mr. N. Yamaguchi, Graduate Student, and Mr. N. Ogawa of the Earthquake Disaster Mitigation Research Center (EDM), RIKEN, attended APSSRA 99 (Asian-Pacific Symposium on Structural Reliability and its Applications) held in Taipei, Taiwan, Republic of China from January 31 to February 4, 1999.

Dr. O. Murao visited Taiwan from September 29 to October 3, 1999 together with Mr. N. Ogawa and Mr. H. Hasegawa from EDM. They performed a quick reconnaissance of the Chichi, Taiwan Earthquake on September 21, 1999.

Dr. O. Murao and Mr. H. Tanaka, Graduate Student, attended the 20th Asian Conference on Remote Sensing held in Hong Kong, China from November 21 to 27, 1999.