

News

- Professor K. Konagai and R. Ahsan, Ph.D. candidate, visited Imperial College, UK, to attend the 3rd UK-Japan Workshop on Implications of Recent Earthquakes.
- Professor K. Konagai and R. Ahsan, Ph.D. candidate, visited Earthquake Engineering Center, Bristol University, UK, and talked with Director Collin Taylor about future collaborations on Soil-Structure Interaction simulations on shaking tables.
- Professor K. Konagai, T. Katagiri, D. Maruyama, J. Johansson and P. Mayorca visited Yonago, Seihaku and Mizoguchi areas, Tottori, on Oct. 7-9, to investigate the damage caused by the Western Tottori Prefecture Earthquake of Oct. 6, 2000.
- Emeritus Professor C. Tamura, Dr. N. Yamaguchi, Y.B. Yin and M. Iijima visited Yonago, Yasugi and its vicinities on Oct. 15-17 to investigate the damage caused by the Western Tottori Prefecture Earthquake of Oct. 6, 2000.
- Prof. K. Konagai, together with Prof. K. Meguro and Prof. M. Hori, organized the 1st Workshop on Seismic Fault-induced Failures – Possible Remedies for Damage to Urban Facilities –, Univ. of Tokyo, on Jan. 11-12, 2001. Keynote lectures were provided by Prof. Jonathan Bray, University of California, Berkeley, USA, Prof. Resat Ulusay, Hacettepe University, Turkey, Prof. Derin URAL, Istanbul Technical University, Turkey, and Dr. C.S. Kung, SINOTEC, Taiwan.
- Professor K. Konagai, as the leader of the JSCE Reconnaissance Team, was dispatched on Feb. 1-9 to El Salvador to investigate the damage caused by the earthquake, which was centered off El Salvador's southern coast. An assembly of Salvadorian specialists and officials was coordinated for discussing with the JSCE team members the findings that the JSCE team members obtained through their reconnaissance. The assembly was held at Radisson Hotel, San Salvador, on Feb. 6.
- Dr. W. H. YI, Professor of Kwangwoon University, Seoul, Korea stayed Nakano Laboratory during the period of Jan. 5, 2000 to Feb. 16, 2001 as a Visiting Research Fellow. He participated in a collaborative research project on seismic capacity evaluation and retrofit of existing buildings in Korea.
- Professor Y. NAKANO, Dr. K. KUSUNOKI, Research Associate, and Dr. K. S. LEE, Postdoctoral Research Fellow, attended the *12th World Conference on Earthquake Engineering* held in Auckland, New Zealand, from January 30 to February 4, 2000 and presented their papers.
- Dr. K. S. LEE, Postdoctoral Research Fellow, attended *Japan-Taiwan Workshop on Urban Earthquake Disaster Mitigation* held in National Center for Research on Earthquake Engineering, Taipei, Taiwan, from February 28 to 29, 2000.
- Professor Y. NAKANO and Dr. W. H. YI, Visiting Research Fellow, attended *CEB/fibTG 4/4 meeting on Fastening to Concrete* held in San Diego, USA, during March 30 and 31, 2000.
- Professor Y. NAKANO and Dr. W. H. YI, Visiting Research Fellow, attended *Third UK-Japan Workshop on Implications of Recent Earthquakes on Seismic Risk* held in London, UK, during April 6 and 7, 2000.
- Professor Y. NAKANO attended the *Japan-Slovenia Workshop on Performance Based Seismic Design Methodologies*, held in Ljubljana, Slovenia, during October 2 and 3, 2000 and presented his papers.
- Professor Y. NAKANO and Dr. W. H. YI, Visiting Research Fellow, attended the *3rd Cairo Earthquake Engineering Symposium on Earthquake Preparedness and Response* held in Cairo, Egypt, from November, 18 to 20, 2000 and presented their papers.
- Professor Y. NAKANO and W. H. YI attended the *3rd Multi-lateral Workshop on Development of Earthquake and Tsunami Disaster Mitigation Technologies and their Integration for the Asia-Pacific Region* held in Manila, Philippines, from November, 28 to 30, 2000 and presented their papers.
- Prof. K. Kawaguchi, Dr. A. Nishida, Mr. S. Ohya and two of graduate students in Kawaguchi lab. attended the APCS2000, Asian Pacific Conference on Shell and Spatial Structures, held in Seoul, Korea, 15-18, October 2000, and presented the papers. The meeting with Prof. Phillip L. Gould and Prof. S. Sridharan,

Washington University in St. Louis, was held at the conference place and they confirmed research activities and discussed about contents of the final report of these three year's activities and future co-operation.

Prof. K. Kawaguchi attended IUTAM-IASS Symposium on Deployable Structures: Theory and Applications, held in Istanbul, Turkey, May 29-June 2, 2000.

Prof. K. Kawaguchi attended IASS-IACM 2000, the Fourth International Colloquium on Computation of Shell & Spatial Structures, held in Crete, Greece, June 4-7, 2000, and presented a paper.

Professor J. Koseki attended International Workshop on Seismic Performance of Geosynthetic-Reinforced Soil Structures, held in New York, USA, 30-31 October 2000.

Professor J. Koseki attended GeoEng2000, an International Conference on Geotechnical & Geological Engineering, held in Melbourne, Australia, 19-24 November 2000.

Professor K. Ohi attended the 3rd International Conference on Behavior of Steel Structures in Seismic Area (STESSA 2000) held at Montreal, Canada, on August 21-24, 2000. He co-chaired the Working Session "Connection II" with Professor D. Dubina from University of Timisoara, Romania, and also presented his paper.

Professor K. Ohi attended an International Workshop on Performance-Based Building Structural Design, held at Tsukuba, Japan, on November 13-15, 2000. He co-chaired the Group Session C "Seismic Design" with Professor H. Krawinkler from Stanford University and Professor S. C. Goel from the University of Michigan, US. Dr. Seung Jae Lee and Mr. Praveen Khandelwal from IIS also attended the workshop and made their presentations on seismic demand evaluation.

Professor Mark Aschheim from University of Illinois, US, visited IIS at Komaba campus on June 7, 2000 and made his presentation titled "Towards Explicit Control of Drift and Ductility Demands in Seismic Design: A Simple Methodology and a Novel Structural System" at IIS Foreign Researcher's Seminar No.469 chaired by Professor K. Ohi.

Professor Darko Beg from University of Ljubljana, Slovenia, visited IIS at Komaba campus on December 5, 2000, and made his presentation titled "Partial-strength Connections in Seismic Conditions" at IIS Foreign Researcher's Seminar No. 491 chaired by Professor K. Ohi.

Professor Kim Jong-Sung from Kyungil University, Korea, was invited by IIS and stayed at Ohi Laboratory as a short-term visiting researcher in February 2001. He participated research meetings on semi-rigid connections held at IIS, and also he made his presentation titled "Research Trends on Constructional Steel in Korea" at IIS Foreign Researcher's Seminar No. 499 chaired by Professor K. Ohi.

Research Associate Dr. S.J. Lee attended the First International Seminar on Steel Structures held at Research Institute of Industrial Science and Technology, Suwon, Korea, on January 17-23. He gave a lecture on performance based design of steel structures using an impulse dynamic loading.

Professor K. Meguro visited Vienna, Austria, to attend the preparations for the Disaster Mitigation Exhibition in Vienna and to exchange information with Austrian researchers during the period May 13-18, 2000. Prof. Meguro gave two lectures: 'Computer Simulation of the Collapse Process of Structures due to Earthquakes' and 'Urban Space Design and Safety Evaluation from the Viewpoint of Evacuation Behavior of Users'. Prof. Meguro also discussed on the topics that should be presented at the exhibition and the style of the presentations.

Professor K. Meguro visited Boulder, Colorado, USA, to participate in the 25th Annual Hazards Research & Applications Conference from July 9 to 14, 2000. He gave the talk 'Development of a Simulator of the Dynamic Behavior of Furniture during Earthquakes'.

Professor K. Meguro visited Tehran, Iran, from September 10 to 15 to attend the final workshop of the JICA project 'Seismic Microzonation of Great Tehran, Islamic Republic of Iran', and gave a lecture as the chairman of the advisory committee of the project.

Professor K. Meguro visited Taipei, Taiwan, from September 24 to 26, 2000, to participate in the workshop on

great disasters and risk management, 'Catastrophe Risk and Risk Management –Recent Trends in Insurance, Reinsurance, and Capital Markets for Management of Catastrophe Risk–'. He presented his new proposal for promoting the retrofit of deficient earthquake resistant structures. In the workshop, very interesting discussion was carried out on the ways to protect local business and industry from earthquakes.

Professor K. Meguro visited Yangon, Myanmar with other WSSI (World Seismic Safety Initiative) Board Members (Prof. H.C. Shah from Stanford University, Prof. Tore Haavaldsen from Norway, Prof. Bill Iwan from California Institute of Technology and Mr. S. Ohya, President of Oyo Corporation, Japan) to attend a workshop on the installation of a strong ground motion observation network in Myanmar and to exchange information with Myanmar high level officials and academicians. Oyo Corporation donated ten new equipments to Myanmar through WSSI. Professor Meguro joined the workshop as one of the board members of WSSI and gave some lectures on earthquake engineering and the ways to use ground motion data for the implementation of an earthquake resistant environment.

Professor K. Meguro attended the annual conference of JSCE held at Sendai City. During a three-day conference, from September 21 to 23, his laboratory members presented twelve papers. Among them, three won prizes for good research and presentation, which were given to encourage the young generation of researchers.

Professor K. Meguro and Mr. R.K. Pradeep visited Kobe from November 16 to 19 to attend the 2nd Iran-Japan workshop on earthquake engineering. They gave a presentation on the numerical study of the effects of seismic fault displacement to the ground surface deformation and exchanged information on recent earthquake engineering research with Iranian researchers.

Professor K. Meguro visited Tsukuba to attend the 'US-Japan Mini-Summit Workshop to Develop Action Plans for Urban Seismic Disaster Mitigation in Developing Countries', from November 19 to 21. The US participants were Prof. Bill Iwan from CALTEC, Prof. H.C. Shah from Stanford University, US aid officials, and Drs. Brian Tucker and Carlos Viliacis from Geohazard International. From Japan, the participators were Dr. T. Katayama, General Director of NIED, Prof. K. Meguro from INCEDE, IIS, the University of Tokyo, Prof. H. Hayashi from DPRI, Kyoto University, Mr. K. Okazaki from the Ministry of Construction, former general secretary of the RADIUS project, IDNDR Office, Mr. S. Ohya and Dr. F. Kaneo from Oyo Corp., and Dr. S. Rajb from EDM (Earthquake Disaster Mitigation Research Center, The Institute of Physical and Chemical Research). The participants from other countries were Mr. Amod Dixit from Nepal, Mr. Teddy Boem from Indonesia, Prof. T.C. Pan from Singapore and Prof. Tore Haavaldsen from Norway. At the end of the workshop, all participants prepared and approved the 'WSSI/EMI Dialogue'.

Professor K. Meguro visited Ohmiya City from November 30 to December 2 to attend the 37th annual conference of the Japan Society of Natural Disaster Science and the Society Board of Directors meeting. He gave two presentations at the conference.

Professor K. Meguro visited Kobe to attend the 1st workshop on the comparison of recent earthquake disasters held from January 17 to 19, 2001. Prof. Meguro chaired one session together with Prof. K. Tierney from Delaware University.

K. Sudo visited Colorado University at Boulder to attend the 25th National Hazard Workshop. In the workshop, he presented a paper titled "Poverty and disaster in the world". He took opportunity to exchange view on global disaster mitigation with Dr. Robert Hamilton of NSF, while he was staying in the Boulder.

K. Sudo visited National Research Center for Science and Technology to discuss implementation of EQTAP project with Dr. Xuen, Director of Geophysical Institute which is a institute under the National Research Center. INCEDE and the Geophysical Institute are assumes to develop methodologies for post earthquake disaster survey in Asia.

K. Sudo visited Phivolcs at Manila to make a presentation on interim research result on EQTAP. In the meeting, he assumed a chairman in a session.

K. Sudo visited National Observatory of Athens, Greece to make survey on VAN prediction. VAN is an earthquake prediction method developed by Professor Varotsos of the Athens University. There is a hot debate on the prediction in the world. He met DR. Stavarakakis, director of the Observatory, Ms. Lana, Director of Civil Defence Agency, Professor Caridis of Athes Technical University, and Professor Varotsos.

K. Sudo visited UNESCO Jakarta office to meet Dr. G. Areraino, responsible for management of projects on earth environment and natural disaster at UNESCO in Asian region. Both agreed to collaborate in implementing EQTAP project.

Japan-UK Seismic Risk Forum and Third Japan-UK Workshop on Implications of Recent Earthquakes on Seismic Risk were held at Imperial College, London, UK from April 6 and 7, 2000. The forum was coordinated by Professor Elhashai of Imperial College. Prof. F. Yamazaki presented a paper on vulnerability functions on Japanese buildings in the workshop.

Eighth International Symposium on Natural and Technological Hazards (Hazards 2000) was held in Tokushima City from May 21 to 25, 2000. As a member of Local Organizing Committee, Prof. Yamazaki chaired Opening Ceremony and technical session on Disaster Information.

Professor F. Yamazaki attended the Task Force Meeting of EQTAP (*Development of Earthquake and Tsunami Disaster Mitigation Technologies and its Integration for the Asia-Pacific Region*) project held in Beijing and Xian, China on June 5 to 8, 2000. EQTAP is a multi-lateral research project sponsored by Science and Technology Agency, Japan.

Professor F. Yamazaki attended the Second US-Japan Workshop on Advanced Technologies in Urban Earthquake Disaster Mitigation, held at DPRI, Kyoto University on July 11 and 12, 2000. The workshop was organized by Prof. M. Shinozuka of USC and Prof. K. Irikura of Kyoto University.

US-Japan Workshop on the Application of Remote Sensing Technologies for Earthquake Disaster Management was held in Newport Beach, California on August 7, 2000. The workshop was organized by Prof. M. Shinozuka of USC and Prof. F. Yamazaki. Researchers from Japan (Dr. M. Matsuoka, Mr. H. Mitomi, Mr. Y. Yusuf, and Mr. M. Kohiyama of EDM) and USA exchanged their ideas on the use of remote sensing technologies. Japanese group also visited ImageCat Inc., recently established by Mr. Ron Eguchi, and had discussion on their continuing research collaboration.

Professor F. Yamazaki, Dr. M. Matsuoka and Mr. J. Saita, Mr. H. Mitomi of EDM, RIKEN, visited Thailand from August 14 to 18, 2000 as a part of EQTAP project. 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). They also conducted microtremor observations for the ground and structures in Bangkok area together with Prof. Pennung Wamitchai of Civil Engineering Department of AIT.

Professor F. Yamazaki and Mr. I. Tamura and Mr. T. Kumita, Graduate Student, visited Taipei, Taiwan from September 14 to 20, 2000. They conducted microtremor observation in Taipei basin at the seismic stations of Central Weather Bureau, where the accelerograms were recorded in the Chi-chi earthquake. They also visited the sites affected the Chi-Chi earthquake. Prof. Yamazaki also participated in two symposiums held in Taipei in that period: 1) the 17th International Symposium on Automation and Robotics in Construction, and 2) International Workshop on Annual Commemoration of Chi-Chi Earthquake. He delivered an invited lecture on Super Dense Real-time Monitoring of Earthquakes for a City Gas Network in the former symposium.

Professor F. Yamazaki attended the Task Force Meeting of EQTAP project held in Queenstown, New Zealand on October 1 to 3, 2000. In the meeting, international advisory members and leaders of EQTAP discussed on the master plan for earthquake and tsunami mitigation technologies.

Professor F. Yamazaki and Mr. M. Estrada, Mr. I. Tamura, and Mr. Y. Maruyama, Graduate Student, attended the 6th International Conference on Seismic Zonation held in Palm Springs, California, USA from November 13 to 15, 2000. They delivered three presentations on remote sensing, site amplification, and microtremor.

Professor F. Yamazaki attended the *Third Multi-lateral Workshop on Development of Earthquake and Tsunami Disaster Mitigation Technologies and its Integration for the Asia-Pacific Region* held in Manila, Philippines from November 28 to 30, 2000. He served as a session chairman of the working group: *Disaster Risk Assessment and Management*.

Dr. Osamu Murao promoted to Assistant Professor of Tsukuba University on December 2000.