Forum "Math-for-Industry"
"TSUNAMI – Mathematical Modelling"
Using Mathematics for Natural Disaster Prediction, Recovery and Provision for the Future
East-West Center, University of Hawai'i

August 30, 2011 update

	October 24, 2011		October 25, 2011		October 26, 2011		October 27, 2011		October 28, 2011
	Registration		Registration		Registration		Registration		Registration
10:50–10:55	**Opening**	Key Note 10:00–10:50	**Jos STAM** — Nucleus: a unified dynamics solver — Autodesk Research	Key Note 10:00–10:50	**Kristin LAUTER** — Cloud computing: hedging against disaster — Microsoft Research	Key Note 10:00–10:50	**Jonathan HOSKING** — Towards statistical modeling of tsunami occurrence with regional frequency analysis — IBM T. J. Watson Research Center	Key Note 10:00–10:50	**George PAPANICOLAOU** — Stochastic aspects of modeling shallow water waves over random topographies with application to tsunamis — Stanford University
Key Note 11:00–11:50	**Marcelo KOBAYASHI** — Hydroelastic impact models for water-borne debris — University of Hawai'i	11:00–11:40	**Jane SEXTON** — Tsunami modelling: making mathematics relevant to emergency managers — Geoscience Australia	11:00–11:30	**Kirill MOROZOV** — Improving dependability using secret sharing — IMI, Kyushu University	11:00–11:30	**Sangwoon YUN** — Linearized alternating minimization method for a new multiplicative denoising model — KIAS	11:00–11:30	**Hiroki MASUDA** — Very simple estimation of a non-Gaussian process model — IMI, Kyushu University
12:00–12:30	**Cheng HUA** — 2-D viscoelastic FEM simulation on the Longmen Shan Fault zone which ruptured in the 2008 Wenchuan earthquake — Fudan University	11:50–12:30	**Masato KIMURA** — Continuous and discrete crack propagation models with energy gradient property — IMI, Kyushu University	11:40–12:10	**Atsushi TERO** — Transport network which is robust for disaster but inexpensive learned by organism — IMI, Kyushu University	11:40–12:10	**Yasuaki HIRAOKA** — Applications of sheaf cohomology and exact sequences to network coding — IMI, Kyushu University	11:40–12:20	**Armin BRUDERLIN** — Digital hair and other tools for entertainment — Sony Pictures Imageworks
	LUNCH		LUNCH		LUNCH		LUNCH		LUNCH
13:50–14:30	**Kwok Fai CHEUNG** — The 2011 Tohoku Earthquake and Tsunami — University of Hawai'i	13:50–14:30	**Bob ANDERSSEN** — Mathematical Modelling in the Science and Technology of Food Security — CSIRO, Australia	13:30–14:10	**Kim Chuan TOH** — Solving log-determinant optimization problems by a Newton-CG primal proximal point algorithm — National University of Singapore	13:30–14:10	**Jae Ryong KWEON** — Compressible viscous Navier-Stokes flows over cornersand some numerical examples — POSTECH	13:40–14:20	**Geoffry MERCER** — The three 'R's of disease modelling for disasters: Readiness, Response and Retrospection — Australian National University
14:40–15:20	**Kunio SHIMIZU** — Distributions on the disc and annulus with fit to earthquake magnitude data — Keio University	14:40–15:20	**Junichi NAKAGAWA** — Creating an Interdisciplinary Platform for Taking Aim at Mathematical Innovation –A Case of Soil Contamination – — Nippon Steel Corporation	14:20–15:00	**Alejandro JOFRÉ** — Seismic risk for underground mines and the determination of the seismic moment tensor: theoretical and numerical results — CMM, Universidad de Chile	14:20–15:00	**Masahiro WATANABE** — Tsunami simulation on 3D geographical data and realistic visualization techniques — Fujitsu Ltd.	14:30–15:10	**George WILKENS** — Geometric methods in the control of mechanical systems — University of Hawai'i
	COFFEE BREAK		COFFEE BREAK		COFFEE BREAK		COFFEE BREAK	15:10–15:50	**Ryuei NISHII** — Statistical modeling of hyper-dimensional data and spatio-temporal data — IMI, Kyushu University
15:50–16:30	**Qi-fu CHEN** — Computation applications in seismology — Institute of Earthquake Science (CEA)	15:50–18:00	**Poster Session** Short Presentation — **Poster (PhD Students)**	15:30–17:00	**ACMI Inauguration Meeting** / **Poster**	15:30–16:10	**Boris PAVLOV** — Solvable model of a localized boundary stress on the tectonic plate with dissipative boundary conditions — New Zealand Institute for Advanced Study	1550–15:55	**Closing**
16:40–17:20	**Yuji KODAMA** — Tsunami as KP-solitons — Ohio State University					16:20–17:00	**Poster & Poster Session Award Ceremony**		
	Welcome Party 17:40				**Banquet** 18:00				