

3rd German-Japanese Workshop on Computational Mechanics				
Monday, 30 March 2015				
Time		Name	Affiliation	Title
Session 1	Chairman	Wolfgang A. Wall (tbc)		
10:45 - 11:00	Opening	by Presidents Koshizuka (JSCES) and Wall (GACM)		
11:00 - 11:40	Keynote	Marie Oshima	Univ. of Tokyo	New challenges for application of patient-specific modeling and simulation for clinical study
11:40 - 12:05	Talk	Jaan Simon	RWTH Aachen	Micro- and meso-scale modeling of damage in textile composites
12:05 - 12:30	Talk	Masahiro Arai	Nagoya Univ.	Inverse analysis to estimate adhesion strength of coating film by laser spallation method
12:30 - 14:00	Lunch Break			
Session 2	Chairman	Daigoro Isobe (tbc)		
14:00 - 14:40	Keynote	Sigrid Leyendecker	Univ. Erlangen	Structure preserving simulation of hybrid dynamical systems and optimal control
14:40 - 15:05	Talk	Masato Tanaka	Toyota Central R&D Labs., Inc.	Highly accurate numerical differentiation scheme and its application to incremental variational formulation
15:05 - 15:30	Talk	Sven Klinkel	RWTH Aachen	A surface oriented NURBS based hybrid Galerkin-collocation method for the analysis of 3D solids
15:30 - 15:50	Coffee Break			
Session 3	Chairman	Kazuo Kashiya (tbc)		
15:50 - 16:15	Talk	Seiichi Koshizuka	Univ. of Tokyo	Recent development of moving particle simulation and application to industrial problems
16:15 - 16:40	Talk	Marek Behr	RWTH Aachen	Accurate free-surface flow simulation via enhanced surface definition
16:40 - 17:05	Talk	Mitsuteru Asai	Kyushu Univ.	A multi -scale and -physics tsunami disaster simulation by the particle method
17:05 - 17:30	Talk	Martin Kronbichler	TU München	Hybridizable discontinuous Galerkin methods for large eddy simulation of turbulent flow
19:30 - ...	Workshop Dinner			
Tuesday, 31 March 2015				
Session 4	Chairman	Peter Wriggers (tbc)		
09:00 - 09:40	Keynote	Toshio Nagashima	Sophia Univ.	Development of a crack propagation analysis system based on the extended finite element method using a cohesive zone model
09:40 - 10:05	Talk	Stefan Löhnert	Leibniz Univ. Hannover	Multiscale simulation of fracture using the XFEM
10:05 - 10:30	Talk	Shogo Nakasumi	AIST	A basic study on application of XFEM to 2D magnetostatic field analysis using complex velocity potential
10:30 - 10:50	Coffee Break			
Session 5	Chairman	Alexander Popp (tbc)		
10:50 - 11:15	Talk	Anne Schäuble	Univ. Stuttgart	Variational mass scaling for explicit dynamics
11:15 - 11:40	Talk	Junji Kato	Tohoku Univ.	Material design applying topology optimization
11:40 - 12:05	Talk	Thomas Klöppel	Dynamore	Recent developments in LS-DYNA for multi-physics simulations of press hardening and welding processes
12:05 - 12:30	Talk	Gaku Hashimoto	Univ. of Tokyo	Large-scale one-way coupled analysis with open-source parallel FEM software
12:30 - 14:00	Lunch Break			
Session 6	Chairman	Kenjiro Terada (tbc)		
14:00 - 14:40	Keynote	Michael Kaliske	TU Dresden	Modelling and numerical simulation of wooden structures
14:40 - 15:05	Talk	Daigoro Isobe	Univ. of Tsukuba	Finite element analysis on behaviors of furniture and ceiling during seismic excitation
15:05 - 15:30	Talk	Jörg Schröder	Univ. Duisburg-Essen	Ferroc functional materials - multiscale modeling and remarks on experimental characterization
15:30 - 16:00	Closing and Departure	Closing addresses by representatives from JSCES and GACM		