Prometech Simulation Conference 2014

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9:30 - 10:00	Open						
		Katsuya HASEGAWA			7		
10:00 - 10:05	Opening address	Project Professor,Office of Innovation and Entrepreneurship Division of University Corporate Relations					
	aduress	The University of Tokyo					
		We think about the future Japan's Monodzukuri					
10:05 - 10:45	Invited lecture	-New aspect of Manufacturing enabled by Information Technology-					
		Kazuo Iwano					
		Principal Fellow	T l.	A			
		Center for Research and Development Strategy, Japan Scien	ice and Tech	nology Agency			
10:45 - 10:50	Break time						
		The Computational Reality					
10.50 11.00		-Prometech's vision and strategy for next-generation simulation technologies-					
10:50 - 11:30	Presentation	Toshimitsu Fujisawa CEO					
		Prometech Software,Inc.					
		Manufabturing of the world and CAE from the view point of multibody dynamics			-		
	Special	Professor, Department of Mechanical Engineering, Kyung Hee University Board member and founder of FunctionBay, Inc.					
11:30 - 12:00	Lecture						
		Jinwhan Choi					
	_	Shota Hattori			1		
12:00 - 12:10	Guest	CEO					
	speaker	KOZO KEIKAKU ENGINEERING Inc.					
12:10 - 13:30	Lunch time				GPLI Computing Workshop for Advanced Manufacturing		
	Lanon time				GPU Computing Workshop for Advanced Manufacturing		
PM		Session1: Holl A Numerical Analysis of Spray Water Flow in Steel Making		Session2: Holl B Prediction of an optimal condition for large-scale Euglena	PM Room 501		
		Process		(microalgae) culture using computational fluid dynamics			
	Particleworks	Norimasa Yamasaki	Particleworks				
13:30 - 14:00		Head of Dept.	Lecture	Kengo Suzuki	13:30 - 14:0	00	GPU computing becomes familiar by CUDA6/OpenACC
14.00		Mechanical Engineering Div.	B1	Director, General Manager R&D Department			Akira Naruse
		Plant Engineering and Facility Management Center,		euglena Co., Ltd			Senior Developer Technology Engineer
		Nippon Steel & Sumitomo Metal Corporation				NVIDIA	NVIDIA
		Debris flow simulation on the debris flow breaker by		Numerical visualization of physical properties of food		Special	
		Particleworks		during swallowing with 3-dimentinal swallowing simulator			NVIDIA GRID delivers rich graphics anytime, anywhere and on any device
	Particleworks	Ikeda Hajime Subsection Chief	Particleworks	"Swallow Vision®" Tetsu Kamiya			Masaki Sawai Solution Architect, Enterprise Solution Product Group
14:00 - 14:30	Lecture	KITAC CORPORATION	Lecture	Manager of Ingredient Development Group	14:00 - 14:3	80	NVIDIA
	A2	INTAG CORFORATION	B2	Food Technology Research Laboratories R&D Division			INVIDIA
				Meiji Co., Ltd.			
				, say ====			
14:30 - 14:45	Break time				14:30 - 14:4	5 Break time	
14.30 - 14.43	break tille				14.30 - 14.4	Dreak tille	
		Particle-based simulation software for CAE "Particleworks New version 6.0"					3-D digital imaging by X-ray CT and voxel FEM analysis by massively-parallel computation
14:45 - 15:15	Introduction of	Issei MASAIE, Corporate Officer, Software Development Mana Mikio YAMANOI, Engeering Dept.	ager		14:45 - 15:1	GPU	Gakuji Nagai Associate Prof.
14.43 - 13.13	New Version	Prometech Software, Inc.			14.43 - 13.1	Lecture 1	Dept of Mechanical Eng., Faculty of Eng.,
		, 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1					GIFU UNIVERSITY
		Application examples of Particleworks for development of		Flow Analysis in compression molding with high viscosity			Comparisons among Intel x86 CPU, Fujitsu Sparc64 CPU, Intel Xeon Phi, GPU computing through
				resin by Particleworks			
		Transmission and Transfer Case for Automobiles		i com by i ai dioloworko			implementations of simulation codes for particle method
		Naohiro Fujita		-Discussion on the effect of analysis parameters-		GPU	Kohei Murotani
15:15 - 15:45	Lecture	Naohiro Fujita Information Technology System Sec.	Lecture	-Discussion on the effect of analysis parameters- Yoh-ichi Shiina	15:15 - 15:4	GPU Lecture 2	Kohei Murotani Assistant professor
15:15 - 15:45	Lecture	Naohiro Fujita Information Technology System Sec. Information Management Dept.		-Discussion on the effect of analysis parameters- Yoh-ichi Shiina Manager	15:15 - 15:4	.h	Kohei Murotani Assistant professor Department of Systems Innovations, School of Engineering,
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	Lecture A3	Naohiro Fujita Information Technology System Sec. Information Management Dept.	Lecture	-Discussion on the effect of analysis parameters- Yoh-ichi Shiina Manager		Lecture 2	Kohei Murotani Assistant professor Department of Systems Innovations, School of Engineering,
15:15 - 15:45 15:45 - 16:00	Lecture A3	Naohiro Fujita Information Technology System Sec. Information Management Dept. UNIVANCE CORPORATION	Lecture	-Discussion on the effect of analysis parameters- Yoh-ichi Shiina Manager SEKISUI Engineering Co., Ltd.	15:15 - 15:4 15:45 - 16:0	Lecture 2	Kohei Murotani Assistant professor Department of Systems Innovations, School of Engineering, The University of Tokyo
	Lecture A3 Description:	Naohiro Fujita Information Technology System Sec. Information Management Dept. UNIVANCE CORPORATION Application of Simple Coupling Technique using	Lecture	-Discussion on the effect of analysis parameters- Yoh-ichi Shiina Manager SEKISUI Engineering Co., Ltd. Prediction of polymer pellets compression behavior by		Lecture 2	Kohei Murotani Assistant professor Department of Systems Innovations, School of Engineering, The University of Tokyo Tutorial Thrust
15:45 - 16:00	Lecture A3 Description:	Naohiro Fujita Information Technology System Sec. Information Management Dept. UNIVANCE CORPORATION Application of Simple Coupling Technique using Particleworks & LS-DYNA for Product Development	Lecture	-Discussion on the effect of analysis parameters- Yoh-ichi Shiina Manager SEKISUI Engineering Co., Ltd. Prediction of polymer pellets compression behavior by DEM and plasticization analysis by DEM-MPS interaction		Lecture 2 Break time	Kohei Murotani Assistant professor Department of Systems Innovations, School of Engineering, The University of Tokyo Tutorial Thrust Shinya Kitaoka
15:45 - 16:00	Lecture A3 Break time	Naohiro Fujita Information Technology System Sec. Information Management Dept. UNIVANCE CORPORATION Application of Simple Coupling Technique using Particleworks & LS-DYNA for Product Development Sunao Tokura	Lecture B3 Particleworks Lecture	-Discussion on the effect of analysis parameters— Yoh-ichi Shiina Manager SEKISUI Engineering Co., Ltd. Prediction of polymer pellets compression behavior by DEM and plasticization analysis by DEM-MPS interaction method		Lecture 2 Break time	Kohei Murotani Assistant professor Department of Systems Innovations, School of Engineering, The University of Tokyo Tutorial Thrust Shinya Kitaoka Senior Engineer
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15:45 - 16:00 16:00 - 16:30 16:30 - 17:00	Description of Technical Particleworks Lecture A4 Break time Keynote	Naohiro Fujita Information Technology System Sec. Information Management Dept. UNIVANCE CORPORATION Application of Simple Coupling Technique using Particleworks & LS-DYNA for Product Development Sunao Tokura Technical Adviser,Prometech Software,Inc. President,Tokura Simulation Research Corporation Activities for Particle Method Utilization in DENSO Tsuyoshi Hattori Project Assistant Manager Digital Engineering Dept., Engineering R&D center, DENSO CORPORATION Frontier of computer simulation using particle methods Seiichi KOSHIZUKA Professer	Particleworks Lecture B4 Particleworks Lecture B5	Prediction of polymer pellets compression behavior by DEM and plasticization analysis by DEM-MPS interaction method Hideki Tomiyama Manager The Japan Steel Works, LTD. Hiroshima Research Laboratory Process design for bio-oil production utilizing Particleworks Sou Hosokai Researcher National Institute of Advanced Industrial Science and	15:45 - 16:0 16:00 - 16:3 16:30 - 17:0	Lecture 2 Break time GPU Lecture 3 GPU Lecture 4 Break time GPU Keynote	Kohei Murotani Assistant professor Department of Systems Innovations, School of Engineering, The University of Tokyo Tutorial Thrust Shinya Kitaoka Senior Engineer Product Development Department Prometech Software, Inc. A cooperative method between PGI CUDA Fortran and GPU optimized libraries Tomohiro Degawa Lecturer Department of Electronic Control System Engineering Numazu National College of Technology GPU virtualization software for enabling a simple programming of multi GPUs Tetsu Narumi Professor
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15:45 - 16:00 16:00 - 16:30 16:30 - 17:00 17:00 - 17:10	Design	Naohiro Fujita Information Technology System Sec. Information Management Dept. UNIVANCE CORPORATION Application of Simple Coupling Technique using Particleworks & LS-DYNA for Product Development Sunao Tokura Technical Adviser,Prometech Software,Inc. President,Tokura Simulation Research Corporation Activities for Particle Method Utilization in DENSO Tsuyoshi Hattori Project Assistant Manager Digital Engineering Dept., Engineering R&D center, DENSO CORPORATION Frontier of computer simulation using particle methods Seiichi KOSHIZUKA Professer Department of Systems Innovation, Graduate School of Engin The University of Tokyo Congratulations on the 10th anniversary of Prometech Sof Dr. Genki Yagawa Emeritus Professor at University of Tokyo and Toyo University	Particleworks Lecture B4 Particleworks Lecture B4 Particleworks Lecture B5	-Discussion on the effect of analysis parameters—Yoh-ichi Shiina Manager SEKISUI Engineering Co., Ltd. Prediction of polymer pellets compression behavior by DEM and plasticization analysis by DEM-MPS interaction method Hideki Tomiyama Manager The Japan Steel Works, LTD. Hiroshima Research Laboratory Process design for bio-oil production utilizing Particleworks Sou Hosokai Researcher National Institute of Advanced Industrial Science and Technology	15:45 - 16:0 16:00 - 16:3 16:30 - 17:0 17:00 - 17:1	Decture 2 Decture 2 Decture 2 Decture 3 Decture 3 Decture 3 Decture 4 Decture 4 Decture 4 Decture 4 Decture 4 Decture 4 Decture 4	Kohei Murotani Assistant professor Department of Systems Innovations, School of Engineering, The University of Tokyo Tutorial Thrust Shinya Kitaoka Senior Engineer Product Development Department Prometech Software, Inc. A cooperative method between PGI CUDA Fortran and GPU optimized libraries Tomohiro Degawa Lecturer Department of Electronic Control System Engineering Numazu National College of Technology GPU virtualization software for enabling a simple programming of multi GPUs Tetsu Narumi Professor Department of Communication Engineering and Informatics, The University of Electro-Communications Charlie Sugimoto Director, Enterprise Solution Product Group
15:45 - 16:00 16:00 - 16:30 16:30 - 17:00 17:00 - 17:10 17:10 - 17:50	Description of Technical Particleworks Lecture A4 Break time Keynote Speech Closing	Nachiro Fujita Information Technology System Sec. Information Management Dept. UNIVANCE CORPORATION Application of Simple Coupling Technique using Particleworks & LS-DYNA for Product Development Sunao Tokura Technical Adviser, Prometech Software, Inc. President, Tokura Simulation Research Corporation Activities for Particle Method Utilization in DENSO Tsuyoshi Hattori Project Assistant Manager Digital Engineering Dept., Engineering R&D center, DENSO CORPORATION Frontier of computer simulation using particle methods Seiichi KOSHIZUKA Professer Department of Systems Innovation, Graduate School of Enging The University of Tokyo Congratulations on the 10th anniversary of Prometech Sofur. Genki Yagawa Emeritus Professor at University of Tokyo and Toyo University Past President of International Association for Computational	Particleworks Lecture B4 Particleworks Lecture B4 Particleworks Lecture B5	-Discussion on the effect of analysis parameters—Yoh-ichi Shiina Manager SEKISUI Engineering Co., Ltd. Prediction of polymer pellets compression behavior by DEM and plasticization analysis by DEM-MPS interaction method Hideki Tomiyama Manager The Japan Steel Works, LTD. Hiroshima Research Laboratory Process design for bio-oil production utilizing Particleworks Sou Hosokai Researcher National Institute of Advanced Industrial Science and Technology	15:45 - 16:0 16:00 - 16:3 16:30 - 17:0 17:00 - 17:1 17:10 - 17:5	Lecture 2 Break time GPU Lecture 3 GPU Lecture 4 Break time GPU Keynote Speech Closing	Kohei Murotani Assistant professor Department of Systems Innovations, School of Engineering, The University of Tokyo Tutorial Thrust Shinya Kitaoka Senior Engineer Product Development Department Prometech Software, Inc. A cooperative method between PGI CUDA Fortran and GPU optimized libraries Tomohiro Degawa Lecturer Department of Electronic Control System Engineering Numazu National College of Technology GPU virtualization software for enabling a simple programming of multi GPUs Tetsu Narumi Professor Department of Communication Engineering and Informatics, The University of Electro-Communications Charlie Sugimoto
15:45 - 16:00 16:00 - 16:30 16:30 - 17:00 17:00 - 17:10 17:10 - 17:50	Description of Technical Particleworks Lecture A4 Break time Closing address	Naohiro Fujita Information Technology System Sec. Information Management Dept. UNIVANCE CORPORATION Application of Simple Coupling Technique using Particleworks & LS-DYNA for Product Development Sunao Tokura Technical Adviser,Prometech Software,Inc. President,Tokura Simulation Research Corporation Activities for Particle Method Utilization in DENSO Tsuyoshi Hattori Project Assistant Manager Digital Engineering Dept., Engineering R&D center, DENSO CORPORATION Frontier of computer simulation using particle methods Seiichi KOSHIZUKA Professer Department of Systems Innovation, Graduate School of Engin The University of Tokyo Congratulations on the 10th anniversary of Prometech Sof Dr. Genki Yagawa Emeritus Professor at University of Tokyo and Toyo University	Particleworks Lecture B4 Particleworks Lecture B4 Particleworks Lecture B5	-Discussion on the effect of analysis parameters—Yoh-ichi Shiina Manager SEKISUI Engineering Co., Ltd. Prediction of polymer pellets compression behavior by DEM and plasticization analysis by DEM-MPS interaction method Hideki Tomiyama Manager The Japan Steel Works, LTD. Hiroshima Research Laboratory Process design for bio-oil production utilizing Particleworks Sou Hosokai Researcher National Institute of Advanced Industrial Science and Technology	15:45 - 16:0 16:00 - 16:3 16:30 - 17:0 17:00 - 17:1 17:10 - 17:5	Lecture 2 Break time GPU Lecture 3 GPU Lecture 4 Break time GPU Keynote Speech Closing	Kohei Murotani Assistant professor Department of Systems Innovations, School of Engineering, The University of Tokyo Tutorial Thrust Shinya Kitaoka Senior Engineer Product Development Department Prometech Software, Inc. A cooperative method between PGI CUDA Fortran and GPU optimized libraries Tomohiro Degawa Lecturer Department of Electronic Control System Engineering Numazu National College of Technology GPU virtualization software for enabling a simple programming of multi GPUs Tetsu Narumi Professor Department of Communication Engineering and Informatics, The University of Electro-Communications Charlie Sugimoto Director, Enterprise Solution Product Group
15:45 - 16:00 16:00 - 16:30 16:30 - 17:00 17:00 - 17:10 17:10 - 17:50	Description of Technical Particleworks Lecture A4 Break time Closing address	Nachiro Fujita Information Technology System Sec. Information Management Dept. UNIVANCE CORPORATION Application of Simple Coupling Technique using Particleworks & LS-DYNA for Product Development Sunao Tokura Technical Adviser, Prometech Software, Inc. President, Tokura Simulation Research Corporation Activities for Particle Method Utilization in DENSO Tsuyoshi Hattori Project Assistant Manager Digital Engineering Dept., Engineering R&D center, DENSO CORPORATION Frontier of computer simulation using particle methods Seiichi KOSHIZUKA Professer Department of Systems Innovation, Graduate School of Enging The University of Tokyo Congratulations on the 10th anniversary of Prometech Sofur. Genki Yagawa Emeritus Professor at University of Tokyo and Toyo University Past President of International Association for Computational	Particleworks Lecture B4 Particleworks Lecture B4 Particleworks Lecture B5	-Discussion on the effect of analysis parameters—Yoh-ichi Shiina Manager SEKISUI Engineering Co., Ltd. Prediction of polymer pellets compression behavior by DEM and plasticization analysis by DEM-MPS interaction method Hideki Tomiyama Manager The Japan Steel Works, LTD. Hiroshima Research Laboratory Process design for bio-oil production utilizing Particleworks Sou Hosokai Researcher National Institute of Advanced Industrial Science and Technology	15:45 - 16:0 16:00 - 16:3 16:30 - 17:0 17:00 - 17:1 17:10 - 17:5	Lecture 2 Break time GPU Lecture 3 GPU Lecture 4 Break time GPU Keynote Speech Closing	Kohei Murotani Assistant professor Department of Systems Innovations, School of Engineering, The University of Tokyo Tutorial Thrust Shinya Kitaoka Senior Engineer Product Development Department Prometech Software, Inc. A cooperative method between PGI CUDA Fortran and GPU optimized libraries Tomohiro Degawa Lecturer Department of Electronic Control System Engineering Numazu National College of Technology GPU virtualization software for enabling a simple programming of multi GPUs Tetsu Narumi Professor Department of Communication Engineering and Informatics, The University of Electro-Communications Charlie Sugimoto Director, Enterprise Solution Product Group