

Timetable

Last updated 03.09.2018

11th International Symposium on Ultrasonic Doppler Methods for Fluid Mechanics and Fluid Engineering
September 5-7 2018, Berlin, Germany

	08:00 - 09:00	Conference Registration	
	09:00 - 09:30	Opening Session	
	09:30 - 10:05	Keynote 1	Chair : Noriyuki Furuichi
		Yasushi Takeda	Paradigm shift in modern flow measurement and flow metering
	10:05 - 10:25	Coffee Break	
	10:25 - 11:45	Session A1 (Applied Flow I)	Chair : Erich Windhab
	A1-1	Thomas Gundrum, Tobias Vogt, Yingqiang Gao, André Giesecke, Frank Stefani, Sven Eckert	Analyzing the Large Scale Flow in a Precessing Cylinder and Its Ability for Dynamo Action
	A1-2	Daniel Klembt, Heiko Meironke	Experimental Investigations of the Influence of Different Bottom Shapes on the Temperature and Velocity Fields in a Fermentation Tank With a Biological Multiphase Flow
	A1-3	Philippe Schmitt, Anne Pallarès, Marie Burckbuchler, Stéphane Fischer	Optical Versus Acoustic Turbidity in Heavy Loaded Flows
	A1-4	Dennis Schurmann, Sven Franke, Bernd Willers, Sven Eckert	Comparison of Flow Measurements in a Cold Liquid Metal Model for Continuous Casting of Steel Carried Out by an Arrangement of Individual US Transducers and a Linear US Array
	11:45 - 13:05	Lunch Break	
	13:05 - 14:25	Session A2 (Flow Metering and Mapping I)	Chair : Hiroshige Kikura
5. Sept.	A2-1	Hideki Murakawa, Ei Muramatsu, Daijiro Akizuki, Hitoshi Asano, Sanehiro Wada, Noriyuki Furuichi	Development of a Hybrid Ultrasonic Flow Meter With the Use of Pulsed Doppler and Time-Of-Flight
	A2-2	Reinhardt Kotzé, Johan Wiklund, Morten Lien	A New Industrial Hybrid Ultrasonic Flow Meter for Oil Drilling Applications
	A2-3	Kevin Mäder, Richard Nauber, Mantvydas Kalibatas, Lars Büttner, Jürgen Czarske	Ultrasound Phased Array System for High-Resolution Flow Mapping Applications in Magnetohydrodynamics
	A2-4	Noriyuki Furuichi, Sanehiro Wada, Yasushi Takeda	Transient Flow Rate Measurement by Means of Ultrasonic Pulsed Doppler Method
	14:25 - 14:45	Coffee Break	
	14:45 - 16:05	Session A3 (Signal Processing and Methodology I)	Chair : Johan Wiklund
	A3-1	Koki Sawada, Megumi Akashi, Hyun Jin Park, Yuji Tasaka, and Yuichi Murai	Estimation of 2D Velocity Vector Fields by Ultrasonic Doppler Velocimetry and Echography
	A3-2	Yasushi Takeda, Tomonori Ihara, Tatsuya Kawaguchi, Hiroshige Kikura	OpenUVP in Comparison With Commercially Available Devices
	A3-3	Jevin Tanius Owen, Ari Hamdani, Tomonori Ihara, Hideharu Takahashi, Hiroshige Kikura	Development of New Ultrasonic Transducer for Multi-Dimensional Velocity Profile Measurement Using Ultrasonic Doppler Method
	A3-4	Stéphane Fischer	Ubertone: Ultrasonic Measurement Pushed Ever Further - New Opportunities for Science and Monitoring
	16:15 - 17:00	Lab Tour	
	17:00 - 19:00	Incipientus Welcome Reception	
	18:15 - 20:15	Scientific Committee Dinner	

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6. Sept.	08:00 - 09:00	Conference Registration	
	09:00 - 09:35	Keynote 2	Chair : Sven Eckert
		Hiroshige Kikura	Status in Fukushima and Decommissioning Project (Integration of Ultrasonic Measurement and Robotic System for Measurement in Nuclear Power Plant Decommission)
	09:35 - 10:55	Session B1 (Fundamental and Environmental Flow I)	Chair : Sven Eckert
		B1-1 Pierre Bourqui, Cédric Bron, Giovanni De Cesare	Flow Measurement for the Design Optimization of Fish Pass Entries in a Run of River Hydropower Plant
		B1-2 Massimo Guerrero	Simultaneous Measurements of Sound Attenuation and Backscatter for the Evaluation of Suspended Sediment Concentration
		B1-3 Ivan Stojnić, Cédric Bron, Azin Amini, Giovanni De Cesare	Effect of Spilling From Adjacent Orifices on the Velocity Field and Pressures in Front of Needle Stop-Logs
		B1-4 Vecsernyes Zsolt, Andreini Nicolas	Flow Limitation and Riverbank Protection Design Using Asymmetrical Flow Mapping on a Physical Hydraulic Model
	10:55 - 11:15	Coffee Break	
	11:15 - 12:35	Session B2 (Signal Processing and Methodology II)	Chair : Giovanni De Cesare
		B2-1 Taiki Yoshida, Yuji Tasaka, Hyun Jin Park, Yuichi Murai	Accuracy and Robustness Evaluations on Algorithms of Ultrasonic Spinning Rheometry
		B2-2 Fábio Rizental Coutinho, Cesar Yutaka Ofuchi, Andre Luis Stakowian, Flavio Neves Jr, Rigoberto Eleazar Melgarejo Morales	Implementation of a Staggered Trigger Algorithm by Velocity Difference Dealiasing Rules: Experimental Results
		B2-3 Jumpei Hitomi, Shun Nomura, Giovanni De Cesare, Yasushi Takeda, Hyun Jin Park, Yuji Tasaka, Yuichi Murai	Flow Monitoring of Particle-Laden Flows Combining Ultrasonic Doppler and Echo Intensity Profiling Techniques
		B2-4 Sascha Heitkam, Richard Nauber, Thomas Richter, Lars Büttner, Jürgen Czarske, Kerstin Eckert	Ultrasonic Measurements of the Flow Field in Foam and Froth
	12:35 - 13:55	Lunch Break	
	13:55 - 14:55	Session B3 (Applied Flow II)	Chair : Hideki Murakawa
	B3-1 Johan Wiklund, Waqas Mohammad, Reinhardt Kotzé, Mats Stading	Application of Ultrasound Doppler Technique for In-Vitro Flow Visualization of Human Swallowing	
	B3-2 Damien Dufour, Kathleen Feigl, Franz X. Tanner, Yasushi Takeda, Erich J. Windhab	Implications of the Fluid Mechanics and the Antral Contraction Waves in the Dispersion Process of the Human Stomach	
	B3-3 Sven Franke, Josef Pal, and Sven Eckert	UDV Flow Measurements in a Model of the Czochralski Crystal Growth Process	
14:55 - 15:25	Group Photo		
17:00 - 20:00	Boat Tour		
20:00 - 22:30	MET-FLOW Dinner		

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7. Sept.	08:00 - 09:00	Conference Registration	
	09:00 - 09:35	Keynote 3	Chair : Markus Juling
		Bodo Mickan	Ultrasonic flow meters (USM) for custody transfer of natural gas
	09:35 - 10:55	Session C1 (Flow Metering and Mapping II)	Chair : Markus Juling
		C1-1 Tatsuya Kawaguchi, Isao Satoh, Takushi Saito	Ultrasound Flow Metering for the Distorted Velocity Distribution by Means of the Parallel Shift Method
		C1-2 Sanehiro Wada, Noriyuki Furuichi	Velocity Profile Measurement Using Ultrasonic Pulse-Train Doppler Method Under the Disturbed Flow Condition
		C1-3 Tomonori Ihara, Hideharu Takahashi, Hiroshige Kikura	Noise Model Implementation in Ultrasonic Velocity Vector Reconstruction With Array Configuration
		C1-4 Ryo Nishiwaki, Ari Hamadani, Hideharu Takahashi, Gen Endo, Hiroshige Kikura	Development of a Remote Water Leakage Localization System Combined With Phased Array UVP and Robot
	10:55 - 11:15	Coffee Break	
	11:15 - 12:15	Session C2 (Fundamental and Environmental Flow II)	Chair : Stéphane Fischer
		C2-1 Takatoshi Yanagisawa, Megumi Akashi, Yuji Tasaka, Yuichi Murai, Tobias Vogt, Sven Eckert	Characteristics of Large-Scale Structures in Turbulent Rayleigh-Bénard Convection in a Liquid Metal Layer
		C2-2 Sean Mulligan, Richard Sherlock, John Casserly, Giovanni De Cesare	2D Ultrasonic Flow Mapping of the Secondary Flow Field in Free Surface Vortices
		C2-3 Shun Nomura, Jumpei Hitomi, Giovanni De Cesare, Yuichi Murai, Yuji Tasaka, Yasushi Takeda, Hide Sakaguchi	Instantaneous Flow Vector Measurement by a Pair of Ultrasonic Doppler Instruments
12:15 - 13:35	Lunch Break		
13:35 - 13:45	Ubertone Student Award		
13:45 - 14:05	Closing Session		