

CONFERENCE PROGRAM		
Naples (GMT+1)	FIRST DAY (Wednesday 02/03)	
08:30 - 09:00	Registration	
09:00 - 09:40	Welcome and Opening Lecture	Chairpersons
09:40 - 11:00	Technical session 1: Scale application on Structures	Cristian Adams
11:00 - 11:20	<u>Coffee Break</u>	
11:20 - 12:40	Technical session 2: Scale application on Structures	Michele Guida
12:40 - 14:00	<u>Lunch</u>	
14:00 - 14:20	Welcome Address (Prof. Kozo Saito)	Yuji Nakamura
14:20 - 15:40	2 Keynotes (Keith Davey and Susan G. Sterrett)	Sergio De Rosa
15:40 - 16:00	<u>Coffee Break</u>	
16:00 - 17:00	Technical session 3: Scale application on Structures	Giuseppe Petrone
	SECOND DAY (Thursday 03/03)	
08:40 - 11:00	Technical sessions 4: Scale progress in Fluid Dynamics	Taro Hirasawa
11:00 - 11:20	<u>Coffee Break</u>	
11.20 - 12:40	Technical sessions 5: Scale progress in Fluid Dynamics	Hiroyuki Ito
12:40 - 14:00	<u>Lunch</u>	
14:00 - 15:20	2 Keynotes (Valentin Heller and Mitchell Newberry)	Francesco Franco
15:20 - 15:40	<u>Coffee Break</u>	
15:40 - 17:40	Technical session 6: Scale progress in Fluid Dynamics	Minh Bau Luong
17:40 - 20:00	<u>Social event: Tour in Napoli</u>	
20:30 - 23:00	<u>Pizza dinner</u>	
	THIRD DAY (Friday 04/03)	
09:00 - 10:40	Technical session 7: Scale progress in Fluid Dynamics	Hiroyuki Torikai
10:40 - 11:00	<u>Coffee Break</u>	
11:00 - 12:00	Technical session 8: Scale progress in Fluid Dynamics	Kazu Kuwana
12:00 - 12:30	<i>Arrivederci</i>	

CONFERENCE PROGRAM			
Naples (GMT+1)	FIRST DAY (Wednesday 02/03)		
08:30 - 09:00	Registration		
09:00 - 09:40	Welcome and Opening Lecture		
09:40 - 11:00	Technical session 1: Scale application on structures		
09:40 - 10:00	Masami Matsubara	Effects of specimen size and loading rate on stress-strain curve of rubber material	Toyohashi University of Technology
10:00 - 10:20	Fengxia He and Zhong Luo	Scaling laws for piecewise stiffness characteristic of elastic ring	Northeastern University Shenyang
10:20 - 10:40	Lei Li and Zhong Luo	Similarity Design Method of Dynamic Response for Thin Plate Structures with Complex Configurations	Northeastern University Shenyang
10:40 - 11:00	Oluwamayokun Adetoro	A Unified Dynamic Similitude Model for Solid Continuum	Brunel University London
11:00 - 11:20	Coffee Break		
11:20 - 12:40	Technical session 2: Scale application on structures		
11:20 - 11:40	Hamed Sadeghi	Anisotropic versus Multi-Experiment Scaling Vibrational Analysis of Composite Structures	University of Guilan
11:40 - 12:00	Sergio De Rosa	A versatile offset operator for the discrete observation of coupled vibroacoustic systems	Università di Napoli Federico II
12:00 - 12:20	Christian Adams	Obtaining scaling laws from the input and output data of models	Technical University of Darmstadt
12:20 - 12:40	Marco Petrolo	Advanced Finite Elements And Neural Networks For Scaled Models Analysis	Politecnico di Torino
12:40 - 14:00	Lunch		
14:00 - 14:20	Welcome Address (Prof. Kozo Saito)		
14:20 - 15:40	2 Keynotes (Keith Davey and Susan G. Sterrett)		
15:40 - 16:00	Coffee Break		
16:00 - 17:00	Technical session 3: Scale application on structures		
16:00 - 16:20	Gennaro Di Mauro	Identification Of The Scaling Factors For Low Velocity Impact On Composite Plates	Università di Napoli Federico II
16:20 - 16:40	Salvatore Ameduri	Scaling impact onto aerospace morphing systems	CIRA
16:40 - 17:00	Angela Brindisi	Multi-scaled demonstrator for aircraft weight and balance measurements based on FBG sensors design rationale and experimental characterization on two case studies	CIRA

CONFERENCE PROGRAM			
SECOND DAY (Thursday 03/03)			Chairpersons
08:40 - 11:00	Technical sessions 4: Scale progress in Fluid Dynamics		
08:40 - 09:00	Osamu Kadowaki	Flaming/smoldering spread along a thin cellulosic combustible solid in a forced opposed flow	Yamagata University
09:00 - 09:20	Pichayaporn Viriya-amornkij	Kinetic parameters determination of cellulose pyrolysis by thermal gravimetric analyzer	Tokyo University of Science
09:20 - 09:40	Manabu Fuchihata	Scale Modeling of Puffing Behavior of Propane Flame Formed on a Micro-burner Array	Kindai University
09:40 - 10:00	Nicharee Thinnakomsutibutr	Study On Small-Scale Test Of The Combustion Of Polymers With The Application Of Water Mist	Tokyo University of Science
10:00 - 10:20	Tsuneyoshi Matsuoka	Scaling law of the excess burning rate of a cellulosic particle in acoustic standing wave	Toyohashi University of Technology
10:20 - 10:40	Shuhei Takahashi	Simplified model for predicting flammability limit of homogeneous and inhomogeneous solid materials	Keisuke Matsumoto Gifu University
10:40 - 11:00	Yuma Yoshida and Hiroyuki Torikai	Study on scaling law of airburst blast extinguishment with micro explosives	Hirosaki University
11:00 - 11:20	<i>Coffee Break</i>		
11:20 - 12:40	Technical sessions 5: Scale progress in Fluid Dynamics		
11:20 - 12:40	Moe Sato and Hiroyuki Torikai	Experimental examination of appropriate sweeping motion of a portable fire extinguisher nozzle	Hirosaki University
11:40 - 12:00	Yuji Nakamura and Tsukasa Fukaya	A Similarity Rule for Better Prediction of Burning Length of Vertically-oriented Cables	Toyohashi University of Technology
12:00 - 12:20	Jian GAO and Yuji Nakamura	Estimation Strategy on the Thermal Damage of Compartment Fire via Scale Model Experiment	Qingdao Institute of Bioenergy and Bioprocess
12:20 - 12:40	Richard Kwok Kit Yuen	A novel multiscale approach for Flame Retardants Development	City University of Hong Kong
12:40 - 14:00	<i>Lunch</i>		
14:00 - 15:20	2 Keynotes (Valentin Heller and Mitchell Newberry)		
15:20 - 15:40	<i>Coffee Break</i>		
15:40 - 17:40	Technical session 6: Scale progress in Fluid Dynamics		
15:40 - 16:00	Matteo Chiatto	Scaling methodology to design synthetic jet actuators	Università di Napoli Federico II
16:00 - 16:20	Indrek S. Wichman	Comprehensive Scaling of the Opposed Flow Flame Spread Problem	Michigan State University
16:20 - 16:40	Adnan Darwish	Scaling fire spreading mechanism over live pine fuels	University of Kentucky
16:40 - 17:00	Masoud Arabghahestani	Scaling analysis on two-phase flow liquid droplets moving through a weak concurrent airflow stream	University of Kentucky
17:00 - 17:20	Subrata Bhattacharjee	Expressions for Flame Spread Rate Over Cylindrical Fuels in Opposed-Flow Configuration Using a Scale-Modeling Approach	San Diego State University
17:20 - 17:40	Forman A. Williams	A Simplified Model for the Intermediate Structure of Strong Fire Whirls	University of California at San Diego
17:40 - 20:30	Social event: Tour in Naples		
20:30 - 23:00	Pizza dinner		

CONFERENCE PROGRAM				
Naples (GMT+1)	THIRD DAY (Friday 04/03)			Chairpersons
09:00 - 10:40	Technical session 7: Scale progress in Fluid Dynamics			Hiroyuki Torikai
09:00 - 09:20	Hiroyuki Ito	Similarity of meniscus shape in circular tube by different liquids	Kanagawa University	
09:20 - 09:40	Namiki Aoyama	Near-limit flame spread characteristics observed in a narrow channel	Yamagata University	
09:40 - 10:00	Xiaoyu Ju	Scale model experiments of downstream heating effect of a line fire under the action of cross wind	Toyohashi University of Technology	
10:00 - 10:20	Nobuhiro Makita	Effects of Reynolds and Froude numbers on the shape of small-scale jet diffusion flames	Yamagata University	
10:20 - 10:40	Xangpheuak Inthavideth	Scale modeling experiment for better prediction of hot-smoke dispersion from the chimney	Toyohashi University of Technology	
10:40 - 11:00	Coffee Break			
11:00 - 12:00	Technical session 8: Scale progress in Fluid Dynamics			Kazu Kuwana
11:00 - 11:20	Antonio Colanera	Data-Driven Reduced Order Modelling For Parametrized Simulations Of Vertical Liquid Sheet Flows	Università degli Studi di Napoli "Federico II"	
11:20 - 11:40	Minh Bau Luong	Effects of low-temperature chemistry on detonation in IC engine conditions	King Abdullah University of Science and Technology	
11:40 - 12:00	Hong Im	An adaptive time-integration scheme for stiff chemistry based on Computational Singular Perturbation and Artificial Neural Networks	King Abdullah University of Science and Technology	
12:00 - 12:30	Arrivederci			