

The 9th International Conference on Computational Fluid Dynamics





MERHABA!

Welcome to Istanbul and the 9th International Conference on Computational Fluid Dynamics (ICCFD9).

As the leading international conference devoted to both basic and applied CFD, this event brings the latest innovations to a large international community. ICCFD was founded in 2000 with the merger of the International Conference on Numerical Methods in Fluid Dynamics (ICNMFD) and the International Symposium on Computational Fluid Dynamics (ISCFD).

This year's conference introduces several new benefits for participants, including continued longer, more in-depth papers, availability of abstracts and technical papers on the conference website, and the introduction of "Young CFD Investigator Award, In memory of Prof. Kunio Kuwahara of Japan" and the Student Support Programs. In addition, we are honored to have distinguished invited speakers from the international CFD community.

We would like to thank each of you for attending this year's conference and bringing your expertise to our gathering. As CFD experts, you have the vision, the knowledge, and the experience to help pave our way into the future. We encourage you to network with your international colleagues both during and after the technical sessions and at our social events. Please also take time to interact with and encourage the ICCFD9 student members—our future colleagues and leaders.

Our personal respect and thanks to all of you for attending.

CONFERENCE CO-CHAIRS

Prof. Alim Rüstem Aslan



Dr. Ayşe Gül Güngör



Prof. İlyas Bedii Özdemir



ICCFD9 Invited Speakers

Each day of the conference, we will feature a distinguished invited speaker in the 8–9 am timeslot.

Monday

Prof. Metin Muradoglu (Koc University)

Dr. Muradoglu is a professor in Mechanical Engineering at Koc University. He received BS degree from Istanbul Technical University (ITU) in Aeronautical Engineering in 1992, and MS and PhD degrees both from Cornell University in 1997 and 2000, respectively. He also worked as a postdoc at Cornell for about 18 months before joining Koc University faculty in 2001 as an assistant professor. He has had visiting positions at Harvard, Notre Dame and Princeton Universities.



Some of his CFD contributions include:

- The first consistent hybrid finite-volume/particle method for solving the PDF equations of turbulent reacting flows.
- A front-tracking method for direct numerical simulations of soluble surfactant in multiphase flows.
- An auxiliary grid method for computations of multiphase flows in complex geometries.
- Development of a front-tracking method for computational modeling of viscoelastic two-phase systems

Prof. Muradoglu is the recipient of Turkish Academy of Sciences (TUBA) outstanding young scientist award (2009) and encouragement award by Scientific and Technical Research Council of Turkey (TUBITAK) (2010).

His web site is http://home.ku.edu.tr/~mmuradoglu/

Tuesday

Prof. Georges-Henri Cottet (University of Grenoble Alpes)

Georges-Henri Cottet received his PhD form University Paris 6 in 1982. He then joined CNRS as a Research Assistant. After two years at UCLA as Assistant Professor he was appointed Professor at the Université of Grenoble in 1990. He was elected senior member of the Institut Universitaire de France in 2009.

G.-H. Cottet was the founder in 2007 and chairman until 2011 of the Laboratoire Jean Kuntzmann, a laboratory gathering about 250 people in Applied Math and Computer Science. In 2011 he founded AMIES (Agency for Mathematics in Interaction with Enterprises and



Society), a national initiative of CNRS with INRIA and University of Grenoble, to foster interactions between mathematics and enterprises. The research of G.-H. Cottet is in numerical analysis and scientific computing. His contributions in particular deal with the following topics:

- -design, numerical analysis and applications of particle methods in CFD
- -nonlinear anisotropic diffusion for image processing
- -sub-grid scale modeling for Large Eddy Simulations
- -level set and penalization methods for fluid-structure interaction.

His website and recent papers are at the following address: http://ljk.imag.fr/membres/Georges-Henri.Cottet/

Prof. Laiping Zhang (CARDC)

Laiping Zhang is a research professor of fluid mechanics in Computational Aerodynamics Institute (CAI) of China Aerodynamics Research and Development Center (CARDC). He graduated from the Department of Modern Mechanics, University of Science and Technology of China (USTC) in 1990. Then, he received his MSc and PhD degrees from CARDC, in 1993 and in 1997, respectively, where he studied under Prof. Hanxin Zhang. He visited Michigan State University as a visiting scholar in 2002-2003, and worked with Prof. ZJ Wang. His areas of interest include hybrid and dynamic grid generation techniques, numerical methods, parallel computing and CFD applications in aerodynamics. His code,



HyperFLOW, has been applied in many fields, including aerodynamics of airplanes, cars and trains, multi-body separation and interaction, bio-fluid dynamics of fishes and birds. His current research interests are high-order schemes on unstructured grids (such as DG/FV hybrid schemes), automatic and robust super-large scale hybrid grid generation and adaptation, DES and LES of turbulence flow over complex geometries, multidisciplinary coupling simulations and numerical virtual flight, bionic flow mechanics of UAVs. He is the author of more than 150 articles covering the fields enumerated above.

Wednesday

Assoc. Prof. Mehmet Şahin (ITU)

Mehmet Şahin is an Associate Professor at the Faculty of Aeronautics and Astronautics of Istanbul Technical University. He received B.Sc. degrees in both Aeronautical Engineering and Physics Engineering from Istanbul Technical University. Then he obtained a scholarship from the Ministry of Japanese Education Culture and Sport and completed his MSc degree at the Mechanical Engineering Department of Yokohama National University in Japan. He also received another MSc degree from the Aerospace Engineering Department of Georgia Institute of Technology. He completed his PhD



degree in Mechanical Engineering from the Swiss Federal Institute of Technology at Lausanne in 2004.

Prior to joining to Istanbul Technical University in 2009, he worked as a postdoc at the Mathematics Department of University College London as a part of the Microscale Polymer Processing (MuPP2) project supported by ESPRC and as a research associate at the Aerospace Engineering Sciences Department at the University of Colorado at Boulder. His current research and teaching interest include advanced numerical algorithms, ALE methods, high-performance computing, flow instabilities, non-Newtonian flows, multi-phase flows, fluid-structure interactions, dynamic mesh adaptation, low Reynolds number aerodynamics and animal locomotion. His codes and numerical methods have been applied to the simulation of three-dimensional viscoelastic instabilities, polymer processing, fluid-structure interaction in arteries, insect flight, jellyfish swimming, MAVs, etc. He is a currently working within the Fluid Mechanics Research Center - FMRC group at ITU.

His website is http://web.itu.edu.tr/~msahin/

Thursday

Prof. Shigeru Obayashi (M'96)

Shigeru Obayashi received B.S. and M.S. degree from University of Tsukuba in 1982 and 1984, respectively. He received Doctor of Engineering from University of Tokyo in 1987.

He worked as a visiting scientist at NASA Ames Research Center from 1987, and then joined the faculty of engineering at Tohoku University as an associate professor in 1994. He is a professor at Institute of Fluid Science, Tohoku University, Sendai, Japan since 2003. He also serves as Director of the Institute since 2014. His current research interests include computational fluid dynamics, multidisciplinary design optimization,



evolutionary computation, data mining and their real-world applications.

Prof. Obayashi is currently President of the Japanese Society for Evolutionary Computation (2015-2016), Associate Fellow of the American Institute of Aeronautics and Astronautics, Fellow of the Japan Society for Aeronautical and Space Sciences, Fellow of the Japan Society of Mechanical Engineer, Fellow of the Japan Society of Fluid Mechanics. His awards and honors include 1993 NASA Ames Honor Award, 2012 Computational Mechanics Award, the Japan Society of Mechanical Engineers and 2014 the Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology.

His website is http://www.ifs.tohoku.ac.jp/edge/e_index.html.

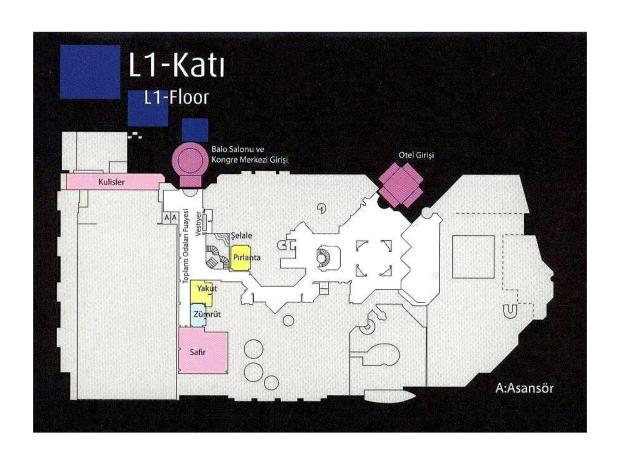
ICCFD9 Schedule Overview

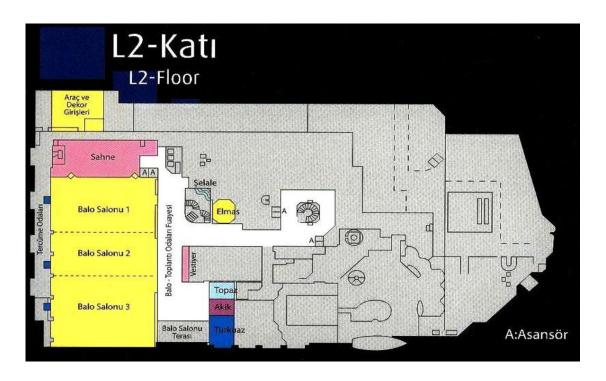
Time		Monday July 11 , 2016	Tuesday July 12 , 2016	Wednesday July 13 , 2016	Thursday July 14 , 2016	Friday July 15 , 2016
7:00-7:45		Registration	Registration	Registration	Registration	Registration
7:45-8:00		Openning	Registration	Registration	Registration	Registration
8:00-9:00	PLANERY TALKS	M MURADOGLU	GH COTTET	M SAHIN	S OBAYASHI	
9:00-9:30				TEA/COFFEE BREAK		
9:30-10:00	1					
10:00-10:30	2					
10:30-11:00	3			3 PARALLEL SESSION		
11:00-11:30	4			5 PARALLEL SESSION		
11:30-12:00	5					
12:00-12:30	6					
12:30-14:00				LUNCH		
14:00-14:30	KEYNOTE TALKS	AG GUNGOR	Z LAIPING		POSTER SESSION	POSTER SESSION
14:30-15:00	1					
15:00-15:30	2	3 PARALLEI	LSESSIONS		SESSIONS	
15:30-16:00	3			CITY Tour		
16:00-16:30		TEA/COFF	EE BREAK	CITTIOUI	TEA/COFFEE BREAK	
16:30-17:00	4					CLOSING
17:00-17:30	5	3 PARALLEI	LSESSIONS		3 PARALLEL SESSIONS	
17:30-18:00	6					











	ICCFD	9 Program: Mo	onday, July 11,	2016		
07:00 am – 07:45 am		Re	gistration		Location	
07:45 am – 08:00 am		Opening Remarks by Co-Chairs				
08:00 am – 09:00 am	Invited Lecture					
P1	Dept. of Med Topic: "Computa					
09:30 am – 10:00 am		Bre	ak			
01 Chairs: Muradoglu, M.		Numerical I	Methods - I		Ballroom	
09:30am – 10:00am ICCFD9-2016-150 A Posteriori Stability Analysis of Finite-Volume Methods on Unstructured Meshes Reza Zangeneh, Dr. Carl Ollivier-Gooch University of British Columbia, Canada	10:00am – 10:30am ICCFD9-2016-152 An accurate and robust finite volume scheme based on the spline interpolation for solving the Euler and Navier–Stokes equations on non-uniform curvilinear grids Qiuju Wang, Yu-xin Ren Institute of Applied Physics and Computational Mathematics, China	10:30am – 11:00am ICCFD9-2016-327 Cell-Centered Reconstruction based Finite Volume Method for Hyperbolic Incompressible Navier-Stokes Equations on Unstructured Grids Hyung Taek AHN, Euntaek LEE, Gwang Soo GO, Hong LUO University of Ulsan, Korea North Carolina State University, USA	11:00am – 11:30am ICCFD9-2016-321 Preconditioned Characteristic Boundary Conditions based on Artificial Compressibility Method for Solution of Incompressible Viscous Flows Kazem Hejranfar, Kaveh Parseh Sharif University of Technology, Iran	11:30am – 12:00pm ICCFD9-2016-124 ENATE procedure for the Navier Stokes equations Antonio Pascau, Muslum Arici, Víctor Llorente University of Zaragoza and CSIC, Spain Kocaeli University, Turkey	12:00pm – 12:30pm ICCFD9-2016-140 Application of the BDDC method to incompressible flows Martin Hanek, Jakub Šíste Pavel Burda Czech Technical University Czech Republic Czech Academy of Science Czech Republic	
O2 Chairs: Satofuka, N.		Large Eddy	Simulation - I		Ballroom	
09:30am – 10:00am ICCFD9-2016-149 Recent Progresses in Large Eddy Simulations with the FR/CPR Method Z.J. Wang, Yanan Li University of Kansas,USA	10:00am – 10:30am ICCFD9-2016-158 LES-IB computations of flows with large temperature and density variations Artur Tyliszczak, Witold Elsner, Mariusz Ksiezyk Czestochowa University of Technology, Poland	10:30am – 11:00am ICCFD9-2016-276 Implicit v.s. Explicit Large Eddy Simulation of Premixed Turbulent Combustion with Multi- scale Forcing Song Zhao, Fabien Thiesset, Ivan Fedioun, Iskender Gökalp ICARE-CNRS, France University of Orléans, France	11:00am – 11:30am ICCFD9-2016-211 Large Eddy Simulation of End Wall Flows in Low Pressure Turbines Seyfullah Cay, Dogukan Tugberk Karahan, Ayse G. Gungor Istanbul Technical University, Istanbul, Turkey	11:30pm – 12:00pm ICCFD9-2016-257 An analysis of the flow field of a radially lobed nozzle via Large Eddy Simulations Aarthi Sekaran, Noushin Amini Engineering Mechanics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, , India		

3 Chairs: Chongam, Kim		Multiphase	Flows - I		Saf
09:30am – 10:00am ICCFD9-2016-303 Simulations of Drop Impact on Hydrophobic Moving Walls Hosein Heidarifatasmi, Özgür Ertunç Ozyegin University, Turkey	10:00am – 10:30am ICCFD9-2016-130 A WELL-POSED TWO PHASE FLOW MODEL AND ITS NUMERICAL SOLUTIONS FOR REACTOR THERMAL- FLUIDS ANALYSIS Samet Y. Kadioglu, Ray Berry, Richard Martineau Idaho National Laboratory, USA	10:30am – 11:00am ICCFD9-2016-129 Linear and Nonlinear Computations of Seakeeping Abilities of a Containership Ferdi Çakıcı, Ömer F. Sukas, Ömer K. Kınacı, Ahmet D. Alkan Yildiz Technical University, Turkey	11:00am – 11:30am ICCFD9-2016-322 Effect of Bubbles Number on Cavitating Flow Through a Venturi Mohammed ZAMOUM, Mohand KESSAL, Rachid BOUCETTA Laboratoire Génie Physique des Hydrocarbures LGPH,Algérie	11:30am – 12:00pm ICCFD9-2016-288 Reducing numerical wave damping through accurate and efficient PLIC-VOF techniques Bülent Düz, Mart J.A. Borsboom, Arthur E.P. Veldman, Peter R. Wellens, Rene H.M. Huijsmans Maritime Research Institute (MARIN), The Netherlands	12:00pm – 12:30pm ICCFD9-2016-277 Simulation of Navier-Stoke Flows Including Rigid Particles Salah ZOUAOUI, Sofiane KHELLADI, Kamal MOHAMMEDI, Hassane DJEBOURI Mouloud Mammeri University of Tizi-Ouzou, Algeria
2:30 pm – 02:00 pm		Hos	ted Lunch		
2:00 pm - 02:30 pm		KEY	NOTE TALK		
2:00 pm – 02:30 pm (1 Topic: '	"Direct Numerical Sir	Prof. Z. Ayse (Gul, GUNGOR rkey	Turbulent Boundary I	_ayers "
(1	"Direct Numerical Sir	Prof. Z. Ayse (Tui nulations of Adverse	Gul, GUNGOR rkey	Turbulent Boundary l	_ayers " Ballroor

5 Chairs: Takakura, Yoko	Supersonic/Hypersonic Flows - I	Ballroom
02:30pm - 03:00pm ICCFD9-2016-311 Highly-accurate Computation of Supersonic Flows around a Concave Body (I. Influences of perturbations) Daichi Inui, Yoko Takakura Tokai University, Japan	03:00pm – 03:30pm ICCFD9-2016-299 Three Dimensional Hypersonic Flow Analysis Around a Reentry Vehicle Using Navier-Stokes Equations Muharrem Özgün, Sinan Eyi Middle East Technical University, Turkey	03:30pm — 04:00pm ICCFD9-2016-326 Highly-accurate Computation of Supersonic Flows arour a Concave Body (II. Motion analysis by mo ving-coordinate method) Masayuki Nomura, Yoko Takakura Tokai University, Japan
6 Chairs: Milanovic, Sasa	Heat Transfer - I	Saf
02:30pm – 03:00pm ICCFD9-2016-185 Investigation of the Mechanical Integrity of Wings/Fins under Thermal Loading Emir ÖZKÖKDEMİR, Dilek Funda KURTULUŞ Roketsan Missiles Inc.,Turkey	03:00pm – 03:30pm ICCFD9-2016-332 Numerical Assessment of the Flow Patterns within the Rod Draw Furnace Chamber A. Goyal, R. Behera Indian Institute of Technology, India	03:30pm – 04:00pm ICCFD9-2016-225 Thermal analysis of Calandria Based Reactor for Different Fuel Channel Configurations NKS Rajan, PS Kulkarni, Suneel M P, Vijesh V Joshi Indian Institute of Science, INDIA
4:00 pm – 04:30 pm	Break	
7 Chairs: Li, Xinliang	Boundary Layer Stability/Transition	on Ballroom
04:30pm – 05:00pm ICCFD9-2016-310 Numerical Simulation of Shock/Boundary-Layer Interactions in Supersonic Flows Jayahar Sivasubramanian University of Arizona, USA	05:00pm – 05:30pm ICCFD9-2016-181 DNS study on the Effect of Wall Temperature on the Shock Wave/Turbulent Bound ary Layer Interaction Xingkun Zhu, Changping Yu, Xinliang Li Chinese Academy of Sciences. China	05:30pm – 06:00pm ICCFD9-2016-203 DNS Study of the Roughness Induced Transition in the NASA SLDT Ma3.5 Tunnel Duan Zhiwei, Xiao Zhxiang, Fu Song Tsinghua University, China

8(Chairs: Celik, B.	Supersonic/Hypersonic Flows - II	Ballroom	
04:30pm:06:00 pm	04:30pm – 05:00pm ICCFD9-2016-242 The effect of combination of counterflow jet and spike on drag reduction for a blunt body at high Mach number flow Ziba Eghlima, Kamyar Mansour AmirKabir University of Technology, Iran	05:00pm — 05:30pm ICCFD9-2016-286 Shock interaction mechanism for 3-D laminar hypersonic flow over a double wedge Ahmet Selim Durna, Bayram Celik Istanbul Technical Universtiy,Turkey	05:30pm – 06:00pm ICCFD9-2016-214 A Fully Compressible Multiphase Scheme for Hypervelocity Impacts Iason Zisis, Bas van der Linden, Barry Koren Eindhoven University of Technology, The Netherlands	
9	Chairs: Biswas, R.	Heat Transfer - II	Safi	
04:30pm:06:00 pm	04:30pm – 05:00pm ICCFD9-2016-218 Numerical Investigation of Entropy Generation in a C-shaped Channel for Laminar Non-Newtonian Fluid Under a Constant Heat Flux Naas Toufik Tayeb, Lasbet Yahia, Benzaoui Ahmed, Loubar Khaled Ziane Achour University, Algeria	05:00pm - 05:30pm ICCFD9-2016-200 Numerical analysis of Fully Developed Laminar Flow and heat transfer of Non-Newtonian Fluid in Ducts of Arbitrary Cross-Sectional Shape Naas Toufik Tayeb, Lasbet Yahia, Benzaoui Ahmed, Loubar Khaled Ziane Achour University, Algeria	05:30pm – 06:00pm ICCFD9-2016-294 Simulations of a rotating disk system with air cooling Zhe Jiao, Song Fu, Tomoki Kawakubo, Satoshi Ohuchida, Hideaki Tamaki Tsinghua University, China	

7:00 am	– 08:00 am		Reg	jistration			
8:00 am	– 09:00 am	Invited Lecture					
2	Topic: "Re	ecent advances with	dynamics"				
9:30 am	– 10:00 am		Bre	ak			
0 Chairs	s: Cottet, GH.		High Order	Methods		Ballroom	
Compa Volume Unstruc Qian W Wanai	am — 10:00am 9-2016-135 ct High-Order Finite e Method on ctured Grids Jang, Yu-Xin Ren, Li ua University, China	10:00am – 10:30am ICCFD9-2016-136 Development and Analysis of High-Order Vorticity Confinement Schemes Ilias Petropoulos, Michel Costes, Paola Cinnella ONERA, The French Aerospace Lab, France	10:30am – 11:00am ICCFD9-2016-115 A Numerical Strategy for the Freestream Preservation of the High-order Weighted Essentially Non-oscillatory Scheme in General Curvilinear Coordinates Yujie Zhu, Zhensheng Sun, Hu Yu, Shiying Zhang Xi'an Research Institute of High-tech, Xi'an, China	11:00am – 11:30am ICCFD9-2016-227 A high accuracy finite volume scheme based on the quantic spline reconstruction on non- uniform curvilinear grids WenFeng Huang, Yu-Xin Ren, Qiuju Wang Tsinghua University, China	11:30am – 12:00pm ICCFD9-2016-174 Higher Order Discretization Error Estimation by Error Transport using Unstructured Finite-Volume Methods for Unsteady Problems Gary Yan, Carl Ollivier- Gooch Inria Bordeaux Sud-Ouest, Team CARDAMOM, France	12:00pm – 12:30pm ICCFD9-2016-137 A POD model for boundary conditions in CFD Michel Bergmann, Andrea Ferrero, Angelo Iollo Inria Bordeaux Sud Ouest, Team MEMPHIS,France	
1 Chairs	s: Napolitano, M		Turbulent	Flows		Ballroom	
ICCFD: Turbule over Se NACAO Reynold Toshiki Tomohi Motoha Muram	am — 10:00am 9-2016-312 ent Flow Structures eparation Bubble on a 012 Airfoil at Low ds Number Hashizume, isa Ohtake, Tatsuo ashi, Akinori hatsu University,Japan	10:00am – 10:30am ICCFD9-2016-123 Considerations of Stress Limiter for the SST Turbulence Model in Dual Throat Nozzle Predictions R. Tharwat, M. El- Samanoudy, A. M. R. El-Baz Ain Shams University, Egypt	10:30am – 11:00am ICCFD9-2016-118 Prediction of wall thermal conditions on a confined turbulent premixed jet flame D. Mira, S. Gövert, M. Zavala-Aké, J.B.K. Kok, M. Vázquez, G. Houzeaux Barcelona Supercomputing Centre, Spain	11:00am – 11:30am ICCFD9-2016-240 Applications of a Scale Adaptive Simulation One- Equation turbulence model Elkhoury M Lebanese American University, Lebanon	11:30am – 12:00pm ICCFD9-2016-278 Improvement and Application of High-Order Accurate Gas-Kinetic Scheme in Turbulence Simulation Qibing Li, Song Fu Tsinghua University, China		

Chairs: Laiping, Z.		Fluid Structu	re Interaction	S
09:00am – 09:30am ICCFD9-2016-166 A numerical method for the fluid-structure interaction problems based on the gas kinetic theory Xiaodong Ren, Kun Xu, Wei Shyy Hong Kong University of Science and Technology, China	10:00am – 10:30am ICCFD9-2016-249 Study of Aero-elastic Behaviour of an Aerospike in Unsteady Supersonic Flow by FSI Simulation A Kamalesh, P Theerthamalai, G Jagadeesh RCI, Hyderabad, India	10:30am – 11:00am ICCFD9-2016-283 Predicting flutter instability by means of an Immersed Boundary Fluid-Structure- Interaction method D. De Marinis, M. D. de Tullio, M. Napolitano, G. Pascazio Politecnico di Bari, Italy	11:00am – 11:30am ICCFD9-2016-207 A coupled Discrete Element Method and Finite Volume Method for the simulation of elastic fishnets in interaction with fluid Paolo Sassi, Jorge Freiria, Gabriel Usera University of the Republic, Uruguay	
2:30 pm – 02:00 pm 2:00 pm – 02:30 pm		Hosted KEYNO	Lunch TE TALK	
2		Prof 7 Lair	sing CARDC	
	opic: "Numerical stud	Ci	oing, CARDC nina nism for the flapping	motion of seagull wing"
	opic: "Numerical stud	Ch ly of the twist mechai	nina	motion of seagull wing" Ballroo

Chairs: Fu, Song	Rotor Aerodynamics - I	Ballroom
02:30pm – 03:00pm ICCFD9-2016-172 The Effects of the Model Scale and Mach Number on the Aerodynamic Characteristics of one six-blade Propeller Liu Zhang, Litao Liu, Hui Zhang, Hong Chen The University of Leeds, UK	03:00pm – 03:30pm ICCFD9-2016-282 Aerodynamic Analysis of Flow Characteristics over Rotors Using CFD Methods Onur Öktem, Emre Başaran, Ünver Kaynak TOBB University of Economics and Technology, Turkey	
Chairs: Sivasubramanian, J.	Heat Transfer - III	Sa
02:30pm – 03:00pm	03:00pm – 03:30pm	03:30pm – 04:00pm
ICCFD9-2016-317	ICCFD9-2016-111	ICCFD9-2016-302
Numerical Analysis of Multiplicity and Transition	Thermal and Flow Field Analysis of Electronic Components	
Phenomena in Natural Convection	Inside a Desktop Computer Chassis	Numerical Study with Experimental Validation
Hadi Kafil, Ali Ecder	Kutay ÇETİN, Kürşad Melih GÜLEREN	Caner Şenkal, Özgür Ertunç
Phenomena in Natural Convection Hadi Kafil, Ali Ecder Bogazici University, Turkey	University of Turkish Aeronautical Association, TURKEY	Ozyegin University, Turkey
l:00 pm – 04:30 pm	Break	
Chairs: Kaynak, Ü.	Flow Control - I	Ballroon
04:30pm – 05:00pm	05:00pm – 05:30pm	05:30pm – 06:00pm
ICCFD9-2016-191 Optimal Flow Actuation for Separation Control and Noise Minimization Beckett Y. Zhou, Tim Albring, Nicolas R. Gauger TU Kaiserslautern, Germany	ICCFD9-2016-220	ICCFD9-2016-236
Optimal Flow Actuation for Separation Control and Noise	Channel and Cavity Flow Analysis Using Lattice Boltzmann	Effects of Temperature on the Acoustic Waves from A
Minimization	Solvers Parallelized with Coarray Fortran	Compressible Turbulent Mixing Layer
Beckett Y. Zhou, Tim Albring, Nicolas R. Gauger TU Kaiserslautern, Germany	F.Yudum Comez, Nevsan Sengil	Daiki Terakado, Taku Nonomura, Akira Oyama, Kozo F
	Middle East Technical University, Turkey	The University of Tokyo,Japan

7 Chairs: Eyi, Sinan	Rotor Aerodynamics - II	Ballroom
04:30pm – 05:00pm ICCFD9-2016-316 Development of Explicit Algebraic Reynolds Stress Model in OpenFOAM with Application to NACA66(mod) Hydrofoil and INSEAN E779A Propeller Kayhan Ülgen Istanbul Technical University, Turkey	05:00pm – 05:30pm ICCFD9-2016-281 Computational Fluid Dynamics Simulations of Ship Airwake with a Hovering Helicopter Rotor Ezgi Orbay, Nilay Sezer Uzol Middle East Technical University, Turkey	
8 Chairs: Güngör, A.G.	Heat Transfer - IV	Saf
04:30pm — 05:00pm ICCFD9-2016-329 Multiphase modelling of compressible diesel fuel in a solenoid valve injector Nuray Kayakol Address	05:00pm — 05:30pm ICCFD9-2016-245 Investigation of the Two-Pass Turbine Internal Cooling Channel with 90 Degree Ribs Firat Kiyici, İsa Kavas, Tolga Yasa Istanbul Technical University, Turkey	05:30pm – 06:00pm ICCFD9-2016-201 Numerical Study of the Passenger Thermal Plume Effects in the Airliner Cabin Environment Yihuan Yan, Xiangdong Li, Jiyuan Tu RMIT University, Australia

07:0	00 am – 08:00 am			dnesday, July 1 stration		
08:0	00 am – 09:00 am			d Lecture		
P3	Topic: "An arbitra	Dept. of Ae ry Lagrangian Euleria	lisplacements and			
09:3	30 am – 10:00 am			tions" eak		
19	Chairs: Sahin, M.		Numerical	Methods - III		Ballroom '
30am:12:30 pm	09:30am – 10:00am ICCFD9-2016-113 Development of A FVM- based code using Conjugate Gradient Approach Rico Morasata, Kürşad Melih Güleren University of Turkish Aeronautical Association, Turkey	reconstruction schemes in split forms Yoshiaki Abe, Issei Morinaka, Takanori Haga,	10:30am – 11:00am ICCFD9-2016-235 An investigation on hybrid upwind fluxes for improving the numerical shock stability on unstructured grids Fan Zhang, Jun Liu, Biaosong Chen, Zedong Chen Dalian University of Technology, China	11:00am – 11:30am ICCFD9-2016-198 Comparative Study of the CTM and SDM-IDC Methods for Diffusive Fluxes Calculation in the CFD Code Based on SIMPLE Algorithm on Highly Skewed Meshes Pannasit Borwornpiyawat, Ekachai Juntasaro, Abdul Ahad Narejo The Sirindhorn International Thai-German Graduate	11:30am – 12:00pm ICCFD9-2016-167 All-speed Two-phase RoeM and AUSMPW+ Scheme for Unsteady Low Mach Number Flows Hyeongjun Kim, Hyunji kim, Yohan Choe, Chongam Kim Seoul National University, Republic of Korea	12:00pm – 12:30pm ICCFD9-2016-127 The geometric conservation law in the numerical simulations Dan Xu, Xiaogang Deng, Yidao Dong, Yaming Chen, Guangxue Wang, Xiaoliang Yang National University of Defense Technology, China
20	Chairs: Abgrall, R.		Computations	School of Engineering,		Ballroom
:12:30 pm	09:30am – 10:00am ICCFD9-2016-182 Multilevel ADER Scheme For Computational Aeroacoustics S. M. Joshi, A. Chatterjee Indian Institute of Technology, India	10:00am – 10:30pm ICCFD9-2016-169 Numerical Validation for Aeroacoustic Transmission Loss Performance of a High Frequency Wave Bypass Filter Based On Destructive Interferometry Barış Elbüken, Alper Ata Alarko Carrier Research and Development Center, Turkey	10:30am – 11:00am ICCFD9-2016-210 Investigation of advanced turbulence modeling approaches for aeroacoustic problems X. Huang, M. Schäfer Technische Universität Darmstadt, Germany	11:00am – 11:30am ICCFD9-2016-270 Application of CFD Methods to Wind Noise Estimation of A-Pillar/Side Glass Region on Passenger Vehicles Kerem Anbarci, H.Can Koman, Ibrahim Avsar, M. Berkay Acikgoz, A.Rustem Aslan Istanbul Technical University, Turkey		

1 Chairs: Son, Gihun		Biologica	al Flows		Safir
09:30am – 10:00am ICCFD9-2016-189 A Numerical Investigation of Urine Flow Rate Effects on Stag Horn Stones Formation in a Kidney Ducts Sevda Aghaei Zad, Esmaeel Razavi, Farhad Sadegh Moghanlou Tabriz University, Iran	10:00am – 10:30am ICCFD9-2016-248 Numerical Investigation of Blood Flow through a Vein with Two Consecutive Leaflet Valves Zohreh Sheidaei, Rahim Vesal Tabriz University, Iran	10:30am – 11:00am ICCFD9-2016-304 Blood Flow over Bileaflet Mechanical Heart Valves under Changes in Cardiac Cycle Length: A Direct Numerical Investigation Viet Anh Nguyen, Roberto Verzicco, M.D. de Tullio Dipartimento di Ingegneria Civile, Università di Roma, Italy	11:00am – 11:30am ICCFD9-2016-108 An IBM-FSI solver of exible objects in fluid flow for pumps clogging applications A. Albadawi, S. Marry, B. Breen, R. Connelly, Y. Delaure Dublin City University, Ireland	11:30am – 12:00pm ICCFD9-2016-260 A Two-Dimensional Spectral Model of Blood Plasma Flow with Oxygen Transport and Blood Cell Membrane Deformation G. Bueno, W. Harris Massachusetts Institute of Technology, US	
2:30 pm – 02:00 pm		Hosted	Lunch		
2:00 pm – 06:00 pm		CITY 1	TOUR		

07:00 am – 08:00 am		Program: Thu Regis	tration		
08:00 am – 09:00 am	Invited Lecture				
P4	Prof. Shigeru Obayashi				
	Director.	Institute of Fluid Scie		sitv. Japan	
		ulti-objective Design			
09:30 am – 10:00 am		Bre	ak		
22 Chairs: Obayashi, Shig	eru	Discontinous Ga	lerkin Method		Ballroom
09:30am – 10:00am ICCFD9-2016-196 A Robust High-Order Discontinuous Galerkin Solver for Fluid Flow with Cavitation Malte Hoffmann, Claus- Dieter Munz University of Stuttgart, Germany	10:00am – 10:30am ICCFD9-2016-251 Discontinuous Galerkin Methods for Hyperbolic Advection-Diffusion Equation on Unstructured Grids Jialin Lou, Hong Luo, Hiroaki Nishikawa North Carolina State University, USA	10:30am – 11:00am ICCFD9-2016-252 A Reconstructed Discontinuous Galerkin method for Compressible Multiphase flows in Arbitrary Lagrangian- Eulerian Formulation Aditya K. Pandare, Hong Luo North Carolina State University, USA	11:00am – 11:30am ICCFD9-2016-151 A Reconstructed Direct Discontinuous Galerkin Methods for the Compressible Navier-Stokes Equations on Hybrid Grids Xiaoquan Yang, Jian Cheng, Hong Luo, Jiangtao Si, Peifen Weng Shanghai Aircraft Design and Research Institute, COMAC, China	11:30am – 12:00pm ICCFD9-2016-290 Supersonic Film Cooling Simulation with a Discontinuous Galerkin Method Shi Xiaotian, Hu Ning, Wang Tiejin, Yue Caiqian, Yuan Xiangjiang China Aerospace Academy of Aerodynamics, China	
23 Chairs: Hashimoto, To	mohisa	Large Eddy Si	mulations - II		Ballroom
09:30am – 10:00am ICCFD9-2016-223 Improvement of weighted compact nonlinear scheme and its application in compressibl e turbulence simulations Zhenguo Yan, Huayong Liu, Yankai Ma, Meiliang Mao, Huajun Zhu CARDC, China	10:00am – 10:30am ICCFD9-2016-138 Large Eddy Simulations of Heavy Gas Dispersion within Building Group Weiming Liu, Abdullah Alakalabi, Tony Lee Graham, Xiaojun Gu University of Central Lancashire, UK	10:30am – 11:00am ICCFD9-2016-305 Large Eddy Simulation of Subsonic H2/N2 transverse jet in hot air cross-flow Mehmet Karaca, Ivan Fedioun, Iskender Gokalp Institut de Combustion Aérothermique Réactivité et Environnement (CNRS),i France	11:00am – 11:30am ICCFD9-2016-250 Large eddy simulation of turbulent drag reduction study based on ribs Wenjiao Dong, Haixin Chen, Yufei Zhang Tsinghua University, China	11:30am — 12:00pm ICCFD9-2016-233 A SGS Model for LES of Turbulent Buoyant Flows Ilyas Yilmaz Istanbul Aydin University, Turkey	12:00pm – 12:30pm ICCFD9-2016-153 Temperature perturbation method to generate turbulent inflow conditions for LES/DNS simulations in OpenFOAM Sophia Buckingham, Lilla Koloszar, Clara Garcia-Sanchez, Grégoire Winckelmans von Karman Institute for Fluid Dynamics, Belgium

4 Chairs: Balakrishnan, N	l.	Multiphase	Flows - II		Saf
09:30am – 10:00am ICCFD9-2016-287 An absorbing boundary condition for free surface water waves Bülent Düz, Mart J.A. Borsboom, Arthur E.P. Veldman, Peter R. Wellens, Rene H.M. Huijsmans Maritime Research Institute (MARIN), The Netherlands	E. Maitre	10:30am – 11:00am ICCFD9-2016-273 Experimental and numerical analysis of the bubble growing and sliding underneath of the inclined hydrophobic surface Ceren Genç, Ali Kibar Address	11:00am – 11:30am ICCFD9-2016-322 Effect of Bubbles Number on Cavitating Flow Through a Venturi Mohammed ZAMOUM, Mohand KESSAL, Rachid BOUCETTA Université M'hamed Bougara, Algérie	11:30am – 12:00pm ICCFD9-2016-288 Reducing numerical wave damping through accurate and efficient PLIC-VOF techniques Bülent Düz, Mart J.A. Borsboom, Arthur E.P. Veldman, Peter R. Wellens, Rene H.M. Huijsmans Maritime Research Institute (MARIN),The Netherlands	12:00pm – 12:30pm ICCFD9-2016-277 Simulation of Navier-Stok Flows Including Rigid Particles Salah ZOUAOUI, Sofiane KHELLADI, Kamal MOHAMMEDI, Hassane DJEBOURI Mouloud Mammeri University of Tizi-Ouzou, Algeria
2:30 pm – 02:00 pm		Hosted	Lunch		
)2:00 pm – 02:30 pm		POSTER	SESSION		
		Meshless	Methods - I		Ballroom
.5 Chairs: Jackson, S.		03:00pm - 03:30pm		03:30pm – 04:00pm ICCFD9-2016-274	

6 Chairs: Abdulaleen, Albadawi	Optimization/Uncerteanity - II	Ballroon
02:30pm – 03:00pm ICCFD9-2016-148 Construction of Multi-Fidelity Surrogate Models for Aerodynamic Databases Markus Peer Rumpfkeil, Philip Beran University of Dayton, USA	03:00pm – 03:30pm ICCFD9-2016-165 Aerodynamic Optimisation of Active Flow Control on a Three-Element High-Lift Configuration Anil Nemili, Emre Özkaya, Nicolas Gauger, Felix Kramer, Frank Thiele China Aerodynamics Research and Development Center, China	Norbert Schönwald, Frank Thiele
7 Chairs: Koren, Barry	Multiphysics - I	S
02:30pm – 03:00pm ICCFD9-2016-145 girdap: Open source object oriented autonomous grid management library for multi-physics simulations Eray Uzgoren Middle East Technical University ,Northern Cyprus	03:00pm – 03:30pm ICCFD9-2016-315 FeatFlow: A Fast, Efficient and Robust CFD solver for Multiphysics Problems Evren Bayraktar, Otto Mierka, Stefan Turek Technische Universität Dortmund, Germany	03:30pm – 04:00pm ICCFD9-2016-175 Numerical Modelling of Immiscible Hele-Shaw Flow with Inhomogeneous Viscosity S.J. Jackson, H. Power, D. Giddings University of Nottingham, UK
4:00 pm – 04:30 pm	Break	
8 Chairs: Petropoulos, Ilias	Meshless Methods - II	Ballroo
04:30pm – 05:00pm ICCFD9-2016-325 Simulating 3-D Single Gas Bubble Growth in a Polymer Melt Using Multi-Phase SPH Burak Kaan Cirpici, Benedict D. Rogers, Yong C. Wang Namik Kemal University, Turkey	05:00pm – 05:30pm ICCFD9-2016-119 An improved contact algorithm for SPH method in simulation of fluid-structure interaction problems CHEN Jian-qiang , SHEN Yan-ming , HE kun China Aerodynamics Research and Development Center, China	

9 Chairs: Ren, Yu-Xin	Flow Control - II	Ballroom
04:30pm – 05:00pm ICCFD9-2016-266 Modeling water and gas coning using CFD H.N.Akangbou, M. Burby, M. Babaie, G.G. Nasr University of Salford, United Kingdom	05:00pm — 05:30pm ICCFD9-2016-272 Flow Control by Microwave-Excited Plasmas Ning Hu, Xiao-tian Shi, Pei-pei Zhou China Academy of Aerospace Aerodynamics, China	05:30pm – 06:00pm ICCFD9-2016-256 Research on Fluidic Amplifiers Dimensional Modifications via Computer Simulation (CFD) Masoud Baghael, Josep M Bergada, David Del Campo, Vanessa Del Campo NASA Ames Research Center, USA
9 Chairs: Çırpıcı, B.K.	Multiphysics - II	Saf
04:30pm – 05:00pm ICCFD9-2016-289 Numerical Solution of Burgers-Huxley Equation using Improved Nodal Integral Method Niteen kumar, Suneet singh Indian Institute of Technology,India	05:00pm – 05:30pm ICCFD9-2016-128 Computational Fluid Dynamic Analysis of Sand Erosion in Complex Pipe Geometry M.G Droubi, M. Hossain, E. Mitchell Robert Gordon University, UK	05:30pm — 06:00pm ICCFD9-2016-309 The numeric examination of the flow and diaphragm movements within the dripper with pressure regulator simultaneously Ceren Genç, Hasan Karabay Sakarya University, Turkey

ICCFD9 Program: Friday, July 15, 2016					
07:00 am – 08:00 am			tration		
08:00 am – 09:00 am		Invited	Lecture		
P5					
09:30 am – 10:00 am		Br	eak		
30 Chairs: Aslan, A.R.		Numerical	Methods - II		Ballroom 1
09:30am – 10:00am ICCFD9-2016-255 Time Integration Schemes for Simulations of Periodic Phenomenon William E. Tavernetti, Mohamed M. Hafez University of California Davis, USA	10:00am – 10:30am ICCFD9-2016-295 Assessment of KRLNS for Solving Unsteady Incompressible Navier- Stokes Equations T. Hashimoto, I. Tanno, T. Yasuda, Y. Tanaka, K. Morinishi, N. Satofuka Kinki University, Japan	10:30am – 11:00am ICCFD9-2016-125 Runge-Kutta Based Algorithms for More Efficient Simulation of Unsteady Incompressible Flows Matthew V. Fischels, R. G. Rajagopalan Iowa State University,Iowa	11:00am – 11:30am ICCFD9-2016-331 Assessment of the Performance of ADI Method as Multigrid Smoother for Solving Elliptic PDEs A. Goyal, M. Damodaran Indian Institute of Technology, India	11:30am – 12:00pm ICCFD9-2016-271 Comparison of artificial compressibility method with and without subiteration for unsteady flow Itaru Tanno, Tomohisa Hashimoto, Takahiro Yasuda, Yoshihiro Tanaka, Koji Morinishi, Nobuyuki Satofuka Tsukuba University of Technology, Japan	
31 Chairs: Marek, Maciej		Computational	Aerodynamics -	ı	Ballroom 2
09:30am – 10:00am ICCFD9-2016-194 Drag Prediction and Decomposition of a Real Aircraft Based on Middle- Field and Far-Field Methods Yeming Deng, Yufei Zhang, Haixin Chen Tsinghua University, China	10:00am – 10:30am ICCFD9-2016-139 Numerical investigations of the flow around a ground vehicles platoon Charles-Henri Bruneau, Khodor Khadra, Iraj Mortazavi Univ. Bordeaux IMB, INRIA Bordeaux Sud-Ouest MEMPHIS,France	10:30am – 11:00am ICCFD9-2016-239 Drag Analysis of a Supersonic Fighter Aircraft Osman Akgun, Ali Ihsan Golcuk, Dilek Funda Kurtulus, Ünver Kaynak Middle East Technical University, Turkey	11:00am – 11:30am ICCFD9-2016-168 Aerodynamic Design of Buses Inspired by Sperm Whale Seda Kırmacı Arabacı, Mehmet Pakdemirli Celal Bayar University, Turkey	11:30am — 12:00pm ICCFD9-2016-217 Stick Fixed Stability of a Hybrid Buoyant Aircraft Anwar UI Haque, Waqar Asrar, Ashraf Ali Omar, Erwin Sulaeman, Jaffar Sayed Mohamed Ali International Islamic University Malaysia (IIUM), Malaysia	12:00pm – 12:30pm ICCFD9-2016-226 Parametric Investigation of Hull Shaped Fuselage for an Amphibious UAV Emre Sazak, D. Funda Kurtulus Middle East Technical University, Turkey

2 Chairs: Gadala, M. S.		Multiphase	Flows - III		Safi
09:30am – 10:00am ICCFD9-2016-329 A Front Tracking Method for Computational Modeling of Temperature and Species Gradient Based Phase Change Muhammad Irfan, Metin Muradoglu Koc University, Turkey	10:00am – 10:30am ICCFD9-2016-132 HYDRODYNAMICS OF TWIN WATER JETS IMPINGEMENT ON A FLAT HORIZONTAL MOVING SURFACE Sultan Al-Qash, M. M. Seraj, M. S. Gadala University of British Columbia, Canada	10:30am - 11:00am ICCFD9-2016-157 Accurate and Efficient Computations of Phase- changing Compressible Flows in Thermal Vapor Compressor Daeho Min, Hyeongjun Kim, Hoon Lee, Chongam Kim Seoul National University, Korea	11:00am – 11:30am ICCFD9-2016-330 A Front-Tracking Method for Direct Numerical Simulation of Viscoelastic Interfacial Flows Daulet Izbassarov, Metin Muradoglu Koc University, Turkey	11:30am – 12:00pm ICCFD9-2016-215 Towards a CFD model of isothermal air-nanofluid bubbly flows in a vertical tube Yang Yuan, Xiangdong Li, Jiyuan Tu RMIT University, Australia	
2:30 pm – 02:00 pm		Hosted	Lunch		
2:00 pm – 02:30 pm		POSTER	SESSIONS		
2:00 pm – 02:30 pm 3 Chairs: Droubi, Mohan	nad Ghazi		SESSIONS		Ballroom

Chairs: Tyliszczak, Artur	Computational Aerodynamics - I	I Ballroor
02:30pm – 03:00pm ICCFD9-2016-141 A Numerical Study of Circulation Control on a Flapless UAV Huaixun Ren, Lihua Gao, Jian Liu, Yong Huang Kyoto Insititute of Technology, Japan	03:00pm – 03:30pm ICCFD9-2016-154 Viscous Flow Around Wings Moving Above Free Water Surface Ali Dogrul, Sakir Bal Yildiz Technical University, Turkey	03:30pm – 04:00pm ICCFD9-2016-228 Numerical Investigation of Winglets Used to Improve the Flying Performance of Unmanned Aerial Vehicle Prof. Ünver Kaynak, Ahmet Buğra Çoban, Ali İhsan Gölcük TOBB University of Economics and Technology, Turk
Chairs: Gungor, A.G.	Gas Kinetic Scheme	S
02:30pm – 03:00pm ICCFD9-2016-318 GAS-KINETIC SCHEME ON MOVING GRID AND ITS APPLICATION IN FREELY FALLING CARD Changqiu Jin, Liang Pan, Kun Xu Institute of Applied Physics and Computational Mathematics, China	03:00pm – 03:30pm ICCFD9-2016-284 Molecular Modeling of Force Driven Gas Flows in Nanochannels Murat Barisik Izmir Institute of Technology, Turkey	03:30pm – 04:00pm ICCFD9-2016-121 A third-order compact gas-kinetic scheme on unstructured meshes for inviscid and viscous flows Liang Pan, Kun Xu Hong Kong University of Science and Technology, Ho

ICCFD9 Program: Thursday-Friday, July 14-15, 2016					
14:00 pm – 14:30 pm	Poster Presentations				
	ICCFD9-2016-264				
	Turbulent Wall Jet Over a Forward-Backward Facing Step Pair				
	Kabache Malika, Mataoui Amina				
	University of Sciences and Technology, Algeria				
	ICCFD9-2016-279				
	Inclined slot jet impinging a moving wall				
	Benmouhoub Dahbia, Mataoui Amina				
	University of Sciences and Technology, Algeria				
	ICCFD9-2016-298				
	Flow in fractured porous media				
	H.Djebouri, S.Zouaoui, K.Mohammedi, A.Ait Aider Aomar				
	Mouloud Mammeri University, Algeria				
	ICCFD9-2016-170				
	Study of the three-dimensional flow characteristics inside the WWER-440 fuel assembly				
	Ts. Malakyan, H. Hovhannisyan, M. Zadoyan, A. Amirjanyan				
	Nuclear and Radiation Safety Center, Armenia				
	ICCFD9-2016-212				
	A New Computational Package for Using in CFD and Other Problems				
	Mohammad Reza Akhavan Khaleghi				
	The Office of Counseling and Research Fluid Engineering and Aerodynamic, Mashhad, Iran				

ICCFD9 Program: Thursday-Friday, July 14-15, 2016

14:00 pm - 14:30 pm

Poster Presentations

ICCFD9-2016-205

Development of ventilation systems in a Semi-Confined Room, by using lobed diffusers

Khadidja Boualem, Azzi Abbes Senia University, Algeria

ICCFD9-2016-296

Numerical study of brine dilution in a marine environment

Remili Sadia, Azzi Abbes, Nemdili Fadela University of Sciences and Technology, Algeria

ICCFD9-2016-104

Large Prandtl number effect on the velocity distribution field of free convective flow of two different types of immiscible fluids in a vertical channel

M.N. Bouaziz, A. Tetbirt, M. Tahar Abbes Dr. Yahia Fares University, Algeria

ICCFD9-2016-105

Hydrodynamic dispersion in Darcy-non Darcy porous medium filled by a nanofluid

A.M. Bouaziz, S. Hanini Dr. Yahia Fares University, Algeria

ICCFD9-2016-206

Numerical investigation and heat transfer inside inclined and vertical finned enclosure

M. Seddik Bouchouicha, A. Azzi, F. Nemdili, A. Z. Delli

Senia University, Algeria

NOTES

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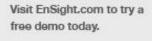




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