

## WEDNESDAY, SEPTEMBER 14 - 2016

<b>Session 7</b>	
<b>Fuel Applications 2</b> Session Co Chairs: X. Cheng (SJTU, China), W-K. In (KAERI, Korea) 9:35 a.m. - 10:50 a.m. – Wong Auditorium	
Presentation:	7.1
Paper Title:	<a href="#"><u>CFD Analysis of the Turbulent Flow in a PWR 5x5 Rod Bundle with Staggered Structural Grids</u></a>
Authors:	P. E. Angeli and M. P. Peybernes
Presentation:	7.2
Paper Title:	<a href="#"><u>CFD Studies of Heat and Momentum Transfer at a Structured Fuel Rod Surface</u></a>
Authors:	M. Bottcher and R. Gomez
Presentation:	7.3
Paper Title:	<a href="#"><u>Departure From Nucleate Boiling Simulations Using Computational Fluid Dynamics</u></a>
Authors:	R.A. Brewster, Y. Xu, L. David Smith III, M.E. Conner and Z. Karoutas
<b>Session 8</b>	
<b>Containment 2</b> Session Co Chairs: G. Zigh (USNRC, USA), S. Kelm (FZJ, Germany) 9:35 a.m. - 10:50 a.m. – Morss Hall	
Presentation:	8.1
Paper Title:	<a href="#"><u>CFD Simulation of Cooler Tests in the MISTRA Facility: A Focus on Liquid Condensate Re-evaporation</u></a>
Authors:	K. Hall and C. Boyd
Presentation:	8.2
Paper Title:	<a href="#"><u>Development of a Wall Condensation Model for Coarse Mesh Containment Scale Applications</u></a>
Authors:	H. Muller, J. Lehmkuhl, S. Kelm, A. Hundausen, A. Belt and H.-J. Allelain
Presentation:	8.3
Paper Title:	<a href="#"><u>Application of Two-Phase Flow CFD to the Phenomena Expected in the Fukushima Daiichi S/C</u></a>
Authors:	M. Pellegrini and M. Naitoh

## WEDNESDAY, SEPTEMBER 14 - 2016

<b>Session 9</b>	
<b>Boiling 2</b> Session Co Chairs: G. H. Yeoh (UNSW, Australia), D. Lucas (HZDR, Germany) 11:10 a.m. - 12:25 p.m. – Wong Auditorium	
Presentation:	9.1
Paper Title:	<a href="#"><u>Recent Advances in Nucleate Boiling Modelling and Application to DNB</u></a>
Authors:	S. Mimouni, W. Benguigui, J. Lavieville, N. Merigoux, M. Guingo, C. Baudry and O. Marfaing
Presentation:	9.2
Paper Title:	<a href="#"><u>A CFD Simulation Effort on the Departure from Nucleate Boiling (DNB) in Subcooled Flow</u></a>
Authors:	S.J. Kim, D.V. Rao, B. Okhuysen, R. Johns and E. Baglietto
Presentation:	9.3
Paper Title:	<a href="#"><u>State-of-the-Art Hydraulic Pressure Drop and Lift Force Analysis for a PWR Fuel Assembly by Using CFD as Compared to the Classical One-Dimensional Approach</u></a>
Authors:	D.-Y. Sheng and M. Seidl
<b>Session 10</b>	
<b>Fluid Structure Interaction 2</b> Session Co Chairs: E. Komen (NRG, Netherlands), Gaurav Kewlani (MIT, USA) 11:10 a.m. - 12:25 p.m. – Morss Hall	
Presentation:	10.1
Paper Title:	<a href="#"><u>Fundamental Validation of Fluid-Structure Thermal Interaction Simulation Code for Thermal Striping in Sodium-Cooled Fast Reactors with Parallel Triple Jets Mixing Experiments</u></a>
Authors:	M. Tanaka, J. Kobayashi and K. Nagasawa
Presentation:	10.2
Paper Title:	<a href="#"><u>Effects of Seismically Induced Sloshing in Elsy Reactors</u></a>
Authors:	M. Jeltsov, W. Villanueva and P. Kudinov
Presentation:	10.3
Paper Title:	<a href="#"><u>Measurement of Wall Temperature with 148 Thermocouples to Improve Simulation Methods for Thermal Fatigue Evaluation at a Mixing Tee</u></a>
Authors:	K. Miyoshi, Y. Utanohara and A. Nakamura

## WEDNESDAY, SEPTEMBER 14 - 2016

<b>Poster Session 2</b>	<b>Fuel and General Multiphase 12:25 p.m. - 1:45 p.m. – Morss Hall</b>
Poster:	P2.1
Poster Title:	<a href="#"><u>NUMERICAL SIMULATION ON SUBCOOLED BOILING FLOW OF THE ULPU-V EXPERIMENTS USING RPI MODEL</u></a>
Authors:	J. Suh, H. Ha
Poster:	P2.2
Poster Title:	<a href="#"><u>ON THE USE OF CFD TO ASSESS SUBCHANNEL MASS FLOW RATE MAPS IN COMPONENT SCALE SIMULATION OF A FUEL ASSEMBLY</u></a>
Authors:	R. Denèfle, M. Montout, M. C. Gauffre, P. Vierstraete, S. Benhamadouche, C. Baudry, N. Merigoux
Poster:	P2.3
Poster Title:	<a href="#"><u>EXPERIMENT STUDY FOR LIFT FORCE IN TWO PHASE MODELING IN WATER</u></a>
Authors:	L. ZhongChun, S. Xiaoming, J. ShengYao, M. Ishii
Poster:	P2.4
Poster Title:	<a href="#"><u>ADVANCES IN THE DEVELOPMENT OF NEK-2P: A TWO-PHASE FLOW MODELING CAPABILITY FOR THE NEK5000 CFD CODE</u></a>
Authors:	A. Tentner, P. Vegendla, A. Tomboulides, A. Obabko, E. Merzari, D. Shaver
Poster:	P2.5
Poster Title:	<a href="#"><u>CFD VALIDATION FOR FLOW IN ROD BUNDLES WITH SPLIT-VANE SPACER GRIDS</u></a>
Authors:	J. Xiong, X. Cheng, Y. Yang
Poster:	P2.6
Poster Title:	<a href="#"><u>WALL-RESOLVED LARGE EDDY SIMULATION OF SECONDARY FLOW IN GRID-FREE FUEL ASSEMBLY</u></a>
Authors:	B. Mikuž, I. Tiselj
Poster:	P2.7
Poster Title:	<a href="#"><u>RESEARCH ON SUBCHANNEL RESISTANCE COEFFICIENT CALCULATION BASED ON CFD METHODOLOGY</u></a>
Authors:	X. Chen, S. Du, S. Li, Z. Li

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<b>Session 11</b>	<b>Multiphase General 2</b> Session Co Chairs: A. Tentner (ANL, USA), J. Xiong (SJTU, China) 4:15 p.m. - 5:30 p.m. – Wong Auditorium
Presentation:	11.1
Paper Title:	<a href="#"><u>A Generalized Large Interface to Dispersed Bubbly Flow Approach to Model Two-Phase Flows in a Nuclear Power Plant</u></a>
Authors:	N. Méricoux, J. Laviéville, S. Mimouni, M. Guingo and C. Baudry
Presentation:	11.2
Paper Title:	<a href="#"><u>Analysis and Applications of a Multi-Field Approach for Plunging Jet Configurations</u></a>
Authors:	E. Krepper, D. Lucas and F. Zidouni
Presentation:	11.3
Paper Title:	<a href="#"><u>Resolved Interface Taylor Bubble Simulations to Support Eulerian Multiphase Closures Derivation</u></a>
Authors:	G. Montoya and E. Baglietto
<b>Session 12</b>	<b>Containment 3</b> Session Co Chairs: M. Pellegrini (IAE, Japan), C. Boyd (USNRC, USA) 4:15 p.m. - 5:30 p.m. – Morss Hall
Presentation:	12.1
Paper Title:	<a href="#"><u>Synthesis of a Blind CFD Benchmark Exercise Based on a Test in the PANDA Facility Addressing the Stratification Erosion by a Vertical Jet in Presence of a Flow Obstruction</u></a>
Authors:	M. Andreani, Y. Daqiang, A.J. Gaikwad, S. Ganju, B. Gera, S. Grigoryev, L.E. Herranz, R. Huhtanen, A. Kanaev, S. Kelm, J. Kim, T. Nishimura, B. Schramm, M. Sharabi and D. Paladino
Presentation:	12.2
Paper Title:	<a href="#"><u>Importance of Thermal Radiation Heat Transfer Modeling in Containment Typical Flows</u></a>
Authors:	S. Kelm, H. Müller, H.-J. Allelein
Presentation:	12.3
Paper Title:	<a href="#"><u>Modeling of Thermal Stratification and Mixing Induced by Steam Injection Through Spargers into a Large Water Pool</u></a>
Authors:	I. Gallego-Marcos, W. Villanueva, R. Kapulla, S. Paranjape, D. Paladino and P. Kudinov