

| ISSCWR-9 Program 2019 March 10 | | ISSCWR-9 Program 2019 March 11 | | ISSCWR-9 Program 2019 March 12 | | ISSCWR-9 Program 2019 March 13 | | ISSCWR-9 Technical Tour (Registered Participants Only) 2019 March 14 | |
|-----------------------------------|--------------|---|--|--|--|---|--|--|--|
| 7:00-8:15 | | Continental Breakfast | | 7:00-8:00 | | 7:00-8:00 | | | |
| Room A | | Room B | | Room A | | Room A | | Room B | |
| | | Opening (L. Walters, CNL and T. Schulerberg, KIT) | | Core and Fuel Designs 1 (Akifumi Yamaji, Waseda U. and German Cota-Sanchez, CNL) | | Fundamental Heat Transfer (Guanghui Su, XJTU and Chukwudi Azih, CNL) | | Instability Analysis 1 (Jinguang Zang, NPIC and Vijay Chatooroon, U. Manitoba) | |
| | 8:15-8:30 | Welcoming Address (K. Huynh, AECL) | | Fast neutron irradiation optimization of Th-fuelled SCWR RPV Petra Pónya, Gyula Csom and Sándor Fehér | | Computational Fluid Dynamics Analysis of Inlet Plenum, Outlet Header, and Fuel Channels of The Canadian SCWR Mohammed Movassat, Joanne Bailey and Metin Yetisir | | A Correlation for Predicting the Onset of Instability for Supercritical Water Natural Circulation Ma Dongliang, Zhou Tao, Feng Xiang and Huang Yanping | |
| | 8:30-9:00 | Plenary Speaker 1 (joint) Canadian SCWR Program (L. Walters, CNL) | | Overview of Heterogeneous Core Design Studies of Super Fast Reactor at Waseda University Akifumi Yamaji, Shogo Noda and Takanari Fukuda | | Experimental Study on Supercritical Freon Heat Transfer Characteristics in A Smooth Circular Tube with Upward and Downward Flows Guojun Yu, Liu Wang, Zhenhui Ma, G.H. Su, Wenxi Tian and S.Z. Qiu | | The Analysis of Natural Circulation Instability Phenomena of Supercritical Water in A Closed Rectangular Loop Jinguang Zang, Fa Lv and Yanping Huang | |
| | 9:00-9:30 | Plenary Speaker 2 (joint) Chinese SCWR Program (Y.P. Huang, NPIC) | | Study on Calculation Difference of the SCWR Core Steady State Analysis Code Lianjie Wang, Lei Yao and Di Lu | | Flow Characteristic of Supercritical Carbon Dioxide in Mini Tube Shenghui Liu, Yanping Huang and Junfeng Wang | | Investigation on The Flow Instability in Supercritical CO2 Natural Circulation Loop Guangxu Liu and Yanping Huang | |
| | 9:30-10:00 | Plenary Speaker 3 (joint) European SCWR Program (M. Kryková, CVR) | | Serpent Verification of Canadian SCWR Core Physics Parameters David Watts | | Experimental Measurements of Emissivity of Candidate Fuel and Fuel Channel Materials Chukwudi Azih, Michael Paine, Hazem Mazhar and Randy Fong | | Experimental investigation of flow instability in two vertical parallel channels using super critical CO2 Anantvir Singh Saini, Vijay Chatooroon and Dhanashree S Ghadge | |
| | 10:00-10:30 | Break | | 10:00-10:30 | | Break | | Break | |
| | 10:30-11:00 | Plenary Speaker 4 (joint) Roadmap for Advanced Nuclear Reactor Development in Canada (D. Brady, NRCan) | | Core and Fuel Designs 2 (Lianjie Wang, NPIC and Megan Moore, CNL) Research on Improved Simplified SCWR Assembly and Core Design Lei Yao, Bangyang Xia, Di Lu, Lianjie Wang, Xiang Li and Qing Li | | Safety Analysis 2 (Lin Chen, Chinese Academy of Sciences and Thomas Beuthe, CNL) Transient Behavior Analysis of Supercritical Fluid Based Circulation Loop Systems Lin Chen | | Coupled Neutronic/Thermalhydraulic Analysis 1 (Attila Kiss, BME and Chukwudi Azih, CNL) About the thermal hydraulic analysis part of a coupled study on a Thorium fueled SCWR concept Attila Kiss, Béla Hegyesi, András Ványi and Gyula Csom | |
| | 11:00-11:30 | Plenary Speaker 5 (joint) IAEA activities on Super-Critical Water-cooled Reactors (T. Jevremovic, IAEA) | | Microstructural characterization of GTAW welded Inconel 625 alloy fuel cladding for the Canadian supercritical water reactor design Lin Xiao, German Cota-Sanchez and Laurence Leung | | Studies on Heat Transfer of Water During Depressurizing Transient from Supercritical to Subcritical Pressure Zhenxiao Hu, Shuo Chen and Hanyang Gu | | Coupled thermohydraulics-neutronics study of a thorium fueled SCWR concept András Szabolcs Ványi, Sándor Fehér, Attila Kiss and Gyula Csom | |
| | 11:30-12:00 | Plenary Speaker 6 (joint) Licensing Framework for Advanced Nuclear Reactor in Canada (R. Rulko, CNSC) | | 11:30-12:00 An Economic Analysis of the Canadian SCWSMR Concept using G4ECONS Toban Verdun, Megan A Moore and Laurence Leung | | Heat transfer analysis and assessment of trans-critical pressure transient Meiqi Song, Xiaojing Liu and Xu Cheng | | A State-of-the-Art Review of Supercritical Heat Transfer Correlations Aleksandar Vasic and Thomas Beuthe | |
| | 12:00-13:00 | Lunch | | 12:00-13:00 | | Lunch | | Closing () | |
| | 13:00-13:30 | Material &Chemistry Session 1 (Lefu Zhang, SJTU and Matthew Edwards, CNL) Results of GIF SCWR 2nd Interlaboratory Exercise on Corrosion of Alloy 800H and 310S in Supercritical Water Radek Novotny | | Rod Bundle Heat Transfer (Yanping Huang, NPIC and Laurence Leung) Experimental Study on Heat Transfer to Water in A Three-Rod Bundle with Spacer Grids Shuo Chen, Yao Xiao and Hanyang Gu | | Material &Chemistry Session 3 (Alberto Sáez-Maderuelo, CIEMAT and Khash Ghandi, U. Guelph) Radiation chemistry in the coolant of Super-Critical Water-cooled Reactor Khashayar Ghandi | | Safety Analysis 1 (Jianqiang Shan, XJTU and Xianmin Huang, CNL) Numerical simulation of a steam injector for passive residual heat removal Thomas Schulerberg and David Heinze | |
| | 13:30-14:00 | In-Situ Electrochemical Impedance Measurements on Corrosion of Pure Ni and AISI Type 316L in Sub-Critical and Super-Critical Water Radek Novotny | | Analysis of Heat Transfer Characteristics of Canadian SCWR Fuel Assembly Concept Armando Nava Dominguez, Yanfei Rao and Thomas Beuthe | | Formation of local, transient "acid spikes" in the fast neutron radiolysis of supercritical water (SCW) at 400 oC: A potential source of corrosion in SCW-cooled reactors? Md. Mohsin Patwary, Sunuchakan Sanguanmith, Jintana Meesungnoen and Jean-Paul Jay-Gerin | | Study on Thermal Hydraulic Characteristics in Startup of CSR1000 Yuan Yuan, Jianqiang Shan and Pan Wu | |
| 14:00-14:25 | Registration | 14:00-14:30 Study of The Corrosion Behavior of An Austenitic Stainless Steel 316 L in Supercritical Water in Comparison with Liquid Water and Steam Sergio Garcia-Rojo, Dolores Gómez-Briceño and Alberto Sáez-Maderuelo | | Further details of a numerical analysis on the thermal hydraulic effect of wrapped wire spacers in fuel bundle Attila Kiss and Bence Mervay | | 14:00-14:30 Corrosion and Hydrogen Evolution in Supercritical Water Reactors Igor Svishev, Dimitrios Kallikragas and Kashif Choudhry | | Accident Analysis of Supercritical Water Reactor in Startup Yuan Yuan, Jianqiang Shan and Pan Wu | |
| 14:25-14:50 | Registration | 14:30-15:00 Effects of Pressure on Corrosion in Supercritical Water David Guzonas | | Assessment of Hydraulics Resistance Model in the ASSERT Subchannel Code for Bundles with Water Flow at Supercritical Pressures Armando Nava Dominguez | | 14:30-15:00 Lessons Learned, Ground Covered and the Path Ahead With Supercritical Water Reactor Chemistry and Corrosion Matthew Edwards, Kittima Khumsa-Ang and Stephane Rousseau | | Integration of Modelling Capabilities in CATHENA for Supercritical Water Reactors Thomas Beuthe | |
| 14:50-15:10 | Registration | 15:00-15:30 Break | | 15:00-15:30 Break | | 15:00-15:30 Break | | 15:00-15:30 Break | |
| 15:10-15:35 | Registration | 15:30-16:00 Material &Chemistry Session 2 (Radek Novotny, JRC and David Guzonas, CNL Retiree) Characterizing the effects of in-situ sensitization on stress corrosion cracking of austenitic steels in supercritical water Kai Chen, Jiamei Wang, Donghai Du and Xianglong Guo | | 2x2 Rod Bundle Heat Transfer (Jinbiao Xiong, SJTU and Armando Nava-Dominguez, CNL) A numerical study of turbulent upward flow of super critical water in a 2x2 rod bundle with non-uniform heating Bo Liu, Shuisheng He, Charles Moulinec and Juan Uribe | | 15:30-16:00 Corrosion Behaviour of 17341, Hr3c and Super 304h Austenitic Stainless Steels in Supercritical Water Markéta Kryková, Zuzana Vávrovcová, Jan Macák and Petr Sajdl | | Critical Flow Modelling (Kaiwen Du, CIAE and Alberto Teysseidou, Ecole Polytechnique) Experimental Study of Supercritical Water Choking Flows using a Convergent-Divergent Test Section Alberto Teysseidou, Altan Muftuoglu and Akila Hidouche | |
| 15:35-16:00 | Registration | 16:00-16:30 Effect of Temperature on Cracking of SCWR Candidate Materials Lefu Zhang, Kai Chen, Zhao Shen, Bin Gong and Rui Tang | | Benchmarking the Subchannel ASSERT-PV Code using the University of Wisconsin-Madison Supercritical Fluid Experiments Armando Nava and Laurence Leung | | 16:00-16:30 Oxidation Behavior of AFA Steels in Superheated Steam at 700 °C Bingjue Xiao, Xiao Huang, Zhangjian Zhou and Sami Penttila | | A critical flow model for supercritical pressures Yufeng Lv, Minfu Zhao and Kaiwen Du | |
| 16:00-18:00 | Registration | 16:30-17:00 Evolution of Microstructure and Mechanical Properties of an Oxide Dispersion Strengthened Austenitic Steel During Aging at 973K Shengying Sun, Shuai Xu, Man Wang, Yujian Wu and Zhangjian Zhou | | CFD modeling of Supercritical Pressure Water Heat Transfer in a 2x2 Rod Bundle Jinbiao Xiong | | 16:30-17:00 General Corrosion of Zirconium- and Titanium-Based Alloys in Supercritical Water at 500 °C and 25 Mpa Kittima Khumsa-Ang, Matthew Edwards and Stephane Rousseau | | Implementation of Modified Homogeneous Equilibrium Break Discharge Model in CATHENA and Application to the Canadian SCWR LOCA Transient Analysis Xianmin Huang, Armando Nava Dominguez and Geoffrey Waddington | |
| 18:00-21:00 | Reception | 17:00 End of Day 1 | | 17:00 End of Day 2 Pre-Banquet Gathering Symposium Banquet | | | | | |