

Sunday April 27th

**16:30-18:00 Registration**

**18:00-20:00 Reception**

Monday April 28th

**07:00-08:00 Continental Breakfast**

**08:00-08:15 Opening  
Salon B&C**

**08:15-08:30 Welcoming Address**

- Philippe Dauphin (NRCan CANMET-Materials)

**08:30-10:00 Opening Plenary (1)  
Salon B&C**

**Chairs:**

- Sermet Kuran (Candu Energy Inc.)
- Danrong Song (Nuclear Power Institute of China)

**08:30-09:00 ADVANCING CANADA'S NUCLEAR SCIENCE AND TECHNOLOGY AT AECL**

- Rick Didsbury (Atomic Energy of Canada Limited)

**09:00-09:30 PLENARY TALK 2**

- Danrong Song (Nuclear Power Institute of China)

**09:30-10:00 CANDU FUEL CYCLES AND ADVANCED FUEL CANDU REACTOR (AFCR)**

- Sermet Kuran (Candu Energy Inc.)

**10:00-10:30 Break**

**10:30-12:00 Opening Plenary (2)  
Salon B&C**

**Chairs:**

- Sermet Kuran (Candu Energy Inc.)
- Danrong Song (Nuclear Power Institute of China)

**10:30-11:00 R&D ACTIVITIES ON ADVANCE NUCLEAR REACTOR DEVELOPMENT IN FDS TEAM OF CHINA**

- Qunying Huang (Institute of Nuclear Energy Safety Technology)

**11:00-11:30 ADVANCED REACTORS REGULATORY DESIGN EVALUATION IN CANADA**

- Robert Rulko (Canadian Nuclear Safety Commission)

**11:30-12:00 TWO-FLUID MOLTEN SALT BREEDER REACTORS**

- Frank Hsia-San Shu (Academia Sinica and University of California)

**12:00-13:10 Lunch**

Monday April 28th

- 13:10-14:50**      **Reactor Design Session (1)**  
**Room:** Salon B  
**Chairs:**
- Mustapha Boubcher (Candu Energy Inc.)
  - Zhenhua Zhang (Third Qinshan Nuclear Power Company)
- 13:10-13:35**      **SIGNIFICANCE OF DEVELOPING ADVANCED FUEL CANDU REACTOR TECHNOLOGY IN CHINA AND THE GENERAL REQUIREMENTS FOR AFCR**
- Zhenhua Zhang (Third Qinshan Nuclear Power Company), Gang Qiao (Third Qinshan Nuclear Power Company), Li Zou (Third Qinshan Nuclear Power Company), Zhiliang Meng (Third Qinshan Nuclear Power Company), Xuebin Liu (Third Qinshan Nuclear Power Company), Shen Fan (Third Qinshan Nuclear Power Company)
- 13:35-14:00**      **ADVANCED FUEL CANDU REACTOR DESIGN**
- Mustapha Boubcher (Candu Energy Inc.), Catherine Cottrell (Candu Energy Inc.), Gang Qiao (Third Qinshan Nuclear Power Company), Zhenhua Zhang (Third Qinshan Nuclear Power Company) and Sermet Kuran (Candu Energy Inc.)
- 14:00-14:25**      **REACTOR CORE AND PLANT DESIGN CONCEPTS OF THE CANADIAN SUPERCRITICAL WATER-COOLED REACTOR**
- Metin Yetisir (Atomic Energy of Canada Limited), Michael Gaudet (Atomic Energy of Canada Limited), David Rhodes (Atomic Energy of Canada Limited), David Guzonas (Atomic Energy of Canada Limited), Holly Hamilton (Atomic Energy of Canada Limited), Zia Haque (Atomic Energy of Canada Limited), Jeremy Pencer (Atomic Energy of Canada Limited) and Amirabbas Sartipi (Atomic Energy of Canada Limited)
- 14:25-14:50**      **PRIMARY STUDY ON THE PROSPECT OF SMALL MODULAR REACTOR**
- Huailin Li (State Nuclear Power Research Institute), Qingyan Zhu (State Nuclear Power Research Institute) and Haihong Xia (State Nuclear Power Research Institute)
- 14:50-15:10**      **BREAK**

Monday April 28th

- 13:10-14:50**      **Reactor Physics Session**  
**Room:** Salon C  
**Chairs:**
- Eleodor Nichita (University of Ontario Institute of Technology)
  - Adriaan Buijs (McMaster University)
- 13:10-13:35**      **THE IMPACT OF THE RADIAL REFLECTOR ON THE 8-GROUP CELL-AVERAGED CROSS-SECTIONS FOR THE SCWR 62-ELEMENT LATTICE CELL**
- Frederic Salaun (McMaster University), David Hummel (McMaster University) and David Novog (McMaster University)
- 13:35-14:00**      **MODELLING OF CANDU-SCWR UNIT CELL WITH DRAGON: FROM CARTESIAN TO HEXAGONAL GEOMETRY**
- Najoua Bejaoui (École Polytechnique de Montréal) and Guy Marleau (École Polytechnique de Montréal)
- 14:00-14:25**      **PRELIMINARY COMPARISON OF TRANSPORT CODES APPLIED TO A SECOND-GENERATION PT-SCWR LATTICE**
- Robert Farkas (University of Ontario Institute of Technology) and Eleodor Nichita (University of Ontario Institute of Technology)
- 14:25-14:50**      **A PRELIMINARY CONCEPT FOR THE INITIAL CORE OF THE SCWR**
- Remon Ibrahim (McMaster University) and Adriaan Buijs (McMaster University)
- 14:50-15:10**      **BREAK**

Monday April 28th

- 15:10-16:50 Reactor Design Session (2)**  
**Room: Salon B**  
**Chairs:**
- Metin Yetisir (Atomic Energy of Canada Limited)
  - Wenxi Tian (Xi'an Jiaotong University)
- 15:10-15:35 PRELIMINARY CONCEPT DESIGN OF SODIUM-COOLED RADIAL FUEL SHUFFLING TRAVELING WAVE REACTOR**
- Wenxi Tian (Xi'an Jiaotong University), Meiyin Zheng (Xi'an Jiaotong University), Xiao Chu (Xi'an Jiaotong University), Dalin Zhang (Xi'an Jiaotong University), Guanghui Su (Xi'an Jiaotong University) and Suizheng Qiu (Xi'an Jiaotong University)
- 15:35-16:00 PHYSICAL ASPECTS OF THE CANADIAN GENERATION IV SUPERCRITICAL WATER-COOLED PRESSURE TUBE REACTOR PLANT DESIGN**
- Michel Gaudet (Atomic Energy of Canada Limited), Metin Yetisir (Atomic Energy of Canada Limited) and Zia Haque (Atomic Energy of Canada Limited)
- 16:00-16:25 STUDIES ON ENVIRONMENT SAFETY AND APPLICATION OF ADVANCED REACTOR FOR INLAND NUCLEAR POWER PLANTS**
- Wei Li (Nuclear Power Institute of China) and Jie Li (Nuclear Power Institute of China)
- 16:25-16:50 DESIGN AND R&D ACTIVITIES OF CHINA LEAD-BASED REACTORS**
- Chao Liu (Institute of Nuclear Energy Safety Technology)
- 16:50 END OF DAY 1**

Monday April 28th

- 15:10-16:50 Fuel Development Session**  
**Room: Salon C**  
**Chairs:**
- Rosaura Ham-su (Atomic Energy of Canada Limited)
  - Paul Chan (Royal Military College of Canada)
- 15:10-15:35 FULL CORE IMPLEMENTATION OF NATURAL URANIUM EQUIVALENT (NUE) FUEL**
- Mustapha Boubcher (Candu Energy Inc.), Catherine Cottrell (Candu Energy Inc.), Mingjun Chen (Third Qinshan Nuclear Power Company), Zhenhua Zhang (Third Qinshan Nuclear Power Company) and Sermet Kuran (Candu Energy Inc.)
- 15:35-16:00 R&D ACTIVITIES IN SUPPORT OF ADVANCED FUEL CYCLE DEVELOPMENT**
- Rosaura Ham-su (Atomic Energy of Canada Limited)
- 16:00-16:25 THERMAL-MECHANICAL BEHAVIOR OF FUEL ELEMENT IN SCWR DESIGN**
- Rui Xu (Atomic Energy of Canada Limited), Metin Yetisir (Atomic Energy of Canada Limited) and Holly Hamilton (Atomic Energy of Canada Limited)
- 16:25-16:50 FUEL PERFORMANCE MODELING FOR PROPOSED TH-BASED CANADIAN SCWR**
- Stuart Bell (Royal Military College of Canada) and Paul Chan (Royal Military College of Canada)
- 16:50 END OF DAY 1**

Tuesday April 29th

- 07:30-08:30**      **Continental Breakfast**
- 08:30-10:10**      **Materials Session (1)**  
**Room: Salon B**  
**Chairs:**
- Wenyue Zheng (NRCan CANMET-Materials)
  - Lefu Zhang (Shanghai Jiaotong University)
- 8:30-8:55**      **ADVANCES IN MATERIAL ASSESSMENT FOR CANADIAN SCWR DESIGN**
- Wenyue Zheng (NRCan CANMET-Materials) and David Guzonas (Atomic Energy of Canada Limited)
- 8:55-9:20**      **EFFECT OF THERMAL AGEING ON THE CORROSION RESISTANCE OF STAINLESS STEEL TYPE 316L EXPOSED IN SUPERCRITICAL WATER**
- Yinan Jiao (McMaster University), Joey Kish (McMaster University), Wenyue Zheng (NRCan CANMET-Materials), David Guzonas (Atomic Energy of Canada Limited) and William Cook (University of New Brunswick)
- 9:20-9:45**      **INFLUENCE OF THE COLD WORK ON THE SUPERCRITICAL WATER OXIDATION OF Fe14Cr1.5Si MODEL ALLOY**
- Dorota Artymowicz (University of Toronto), Carmen Andrei (McMaster University), William Cook (University of New Brunswick) and Roger Newman (University of Toronto)
- 9:45-10:10**      **STRESS CORROSION CRACKING CANDIDATE SCWR MATERIALS**
- Lefu Zhang (Shanghai Jiaotong University), Zhao Shen (Shanghai Jiaotong University) and Rui Tang (Nuclear Power Institute of China)
- 10:10-10:30**      **BREAK**

Tuesday April 29th

- 07:30-08:30**      **Continental Breakfast**
- 08:30-10:10**      **Thermalhydraulics Experiments Session**  
**Room: Salon C**  
**Chairs:**
- Laurence Leung (Atomic Energy of Canada Limited)
  - Huailin Li (State Nuclear Power Research Institute)
- 8:30-8:55**      **THERMALHYDRAULICS AND SAFETY-RELATED EXPERIMENTS IN SUPPORT OF THE CANADIAN SCWR CONCEPT DEVELOPMENT**
- Laurence Leung (Atomic Energy of Canada Limited)
- 8:55-9:20**      **MEASUREMENTS OF THE EFFECTS OF A WIRE-WRAP SPACER ON THE THERMALHYDRAULICS OF HEATED ANNULAR UPWARD FLOW OF SUPERCRITICAL R134a IN STEADY AND TRANSIENT CONDITIONS**
- Shawn Reinink (Carleton University), Andrew Copping (Carleton University), Siddharth Kedare (Carleton University), Kirk Hovell (Carleton University) and Metin Yaras (Carleton University)
- 9:20-9:45**      **MEASUREMENTS IN HORIZONTAL AIR-WATER PIPE FLOWS USING WIRE-MESH SENSORS**
- Etienne Lessard (University of Ottawa), Hassan Shaban (University of Ottawa) and Stavros Tavoularis (University of Ottawa)
- 9:45-10:10**      **FORCED CONVECTIVE HEAT TRANSFER EXPERIMENT OF SUPERCRITICAL WATER IN DIFFERENT DIAMETER OF TUBES**
- Yuzhou Chen (China Institute of Atomic Energy), Chunsheng Yang (China Institute of Atomic Energy), Minfu Zhao (China Institute of Atomic Energy), Kemin Bi (China Institute of Atomic Energy) and Kaiwen Du (China Institute of Atomic Energy)
- 10:10-10:30**      **BREAK**

Tuesday April 29th

- 10:30-12:10**      **Materials Session (2)**  
**Room:** Salon B  
**Chairs:**
- Jian Li (NRCan CANMET-Materials)
  - Matthew Edwards (Atomic Energy of Canada Limited)
- 10:30-10:55**      **CORROSION RESISTANCE OF CANDIDATE FUEL CLADDINGS FOR CANADIAN GEN-IV SCWR**
- Jian Li (NRCan CANMET-Materials), Wenyue Zheng (NRCan CANMET-Materials), Yimin Zeng (NRCan CANMET-Materials) and David Guzonas (Atomic Energy of Canada Limited)
- 10:55-11:20**      **MICROSTRUCTURAL CHARACTERIZATION OF OXIDE SCALES GROWN ON AUSTENITIC FE- CR-NI ALLOYS EXPOSED TO SUPERCRITICAL WATER (SCW)**
- Shooka Mahboubi (McMaster University), Gianluigi Botton (McMaster University) and Joey Kish (McMaster University)
- 11:20-11:45**      **CORROSION WALL LOSS AND OXIDE FILM THICKNESS ON SCWR FUEL CLADDING**
- Matthew Edwards (Atomic Energy of Canada Limited), Stephane Rousseau (Atomic Energy of Canada Limited) and David Guzonas (Atomic Energy of Canada Limited)
- 11:45-12:10**      **IRRADIATION-INDUCED SWELLING IN FE-NI-CR ALLOYS**
- Kevin Boyle (NRCan CANMET-Materials) and T.J. Robotham (NRCan CANMET-Materials)
- 12:10-13:10**      **LUNCH**

Tuesday April 29th

- 10:30-12:10**      **Thermalhydraulics Analyses Session**  
**Room:** Salon C  
**Chairs:**
- Metin Yaras (Carleton University)
  - Jianqiang Shan (Xi'an Jiaotong University)
- 10:30-10:55**      **EXPERIMENTAL STUDY ON BUBBLE SLIDING AND LIFT-OFF BEHAVIOR IN A NARROW RECTANGULAR CHANNEL**
- Jianjun Xu (Nuclear Power Institute of China), Bingde Chen (Nuclear Power Institute of China), Xiaojun Wang (Nuclear Power Institute of China) and Yanping Huang (Nuclear Power Institute of China)
- 10:55-11:20**      **ONSET OF NUCLEATE BOILING AND INCIPIENT POINT OF NET VAPOR GENERATION IN NARROW CHANNEL**
- Gang Hong (Nuclear Power Institute of China), Xiao Yan (Nuclear Power Institute of China), Yanping Huang (Nuclear Power Institute of China) and Zejun Xiao (Nuclear Power Institute of China)
- 11:20-11:45**      **THERMAL HYDRAULIC ANALYSIS OF THE 80 MWTH PB-BI COOLED XADS WITH MODIFIED RELAP5/MOD3.3 CODE**
- Tianyu Lu (Xi'an Jiaotong University), Jianqiang Shan (Xi'an Jiaotong University), Junli Gou (Xi'an Jiaotong University), Bing Zhang (Xi'an Jiaotong University) and Bo Zhang (Xi'an Jiaotong University)
- 11:45-12:10**      **AN INTRODUCTION TO THE USE OF SMOOTHED PARTICLE HYDRODYNAMICS IN THE MODELLING AND OPTIMIZATION OF A MICROCHANNEL HEAT EXCHANGER**
- Josh McLellan (Carleton University), Tarik Kaya (Carleton University), John Goldak (Carleton University) and Metin Yetisir (Atomic Energy of Canada Limited)
- 12:10-13:10**      **LUNCH**

Tuesday April 29th

- 13:10-14:50**      **Materials Session (3)**  
**Room: Salon B**  
**Chairs:**
- Jason Lo (NRCan CANMET-Materials)
  - Fanjiang Meng (Shanghai Nuclear Engineering Research and Design Institute)
- 13:10-13:35**      **MICROSTRUCTURE AND THERMAL PROPERTY OF YSZ INSULATION MATERIALS FOR GEN IV SCWR**
- Jason Lo (NRCan CANMET-Materials), Ruby Zhang (NRCan CANMET-Materials) and Raul Santos (NRCan CANMET-Materials)
- 13:35-14:00**      **STUDY OF SCRATCH-INDUCED STRESS CORROSION CRACKING FOR STEAM GENERATOR TUBES AND SCRATCH CONTROL**
- Fanjiang Meng (Shanghai Nuclear Engineering Research and Design Institute), Xuelian Xu (Shanghai Nuclear Engineering Research and Design Institute), Jianqiu Wang (Chinese Academy of Sciences) and Xiaoqiang Liu (Shanghai Nuclear Engineering Research and Design Institute)
- 14:00-14:25**      **NANOSCALE COATINGS TO MITIGATE SCW CORROSION OF STEEL**
- Michael Hazelton (University of Alberta), Tyler Stephenson (University of Alberta) and David Mitlin (University of Alberta)
- 14:25-14:50**      **EFFECT OF MICROSTRUCTURE ON HIGH TEMPERATURE MECHANICAL PROPERTIES AND RADIATION DAMAGE IN ZR ALLOY EXCEL**
- Yasir Idrees (Queens University), Mohammad Sattari (Queens University), Zhongwen Yao (Queens University), Mark Daymond (Queens University)
- 14:50-15:10**      **BREAK**

Tuesday April 29th

- 13:10-14:50**      **Thermalhydraulics Simulations Session**  
**Room: Salon C**  
**Chairs:**
- David Novog ((McMaster University)
  - Junli Gou (Xi'an Jiaotong University)
- 13:10-13:35**      **A COMPUTATIONAL BENCHMARK STUDY OF FORCED CONVECTIVE HEAT TRANSFER TO WATER AT SUPER-CRITICAL PRESSURE FLOWING WITHIN A 7 ROD BUNDLE**
- Darryl McClure (McMaster University), Alex Rashkovan (McMaster University) and David Novog (McMaster University)
- 13:35-14:00**      **PHENOMENOLOGICAL INVESTIGATION AND NUMERICAL SIMULATION OF GAS BUBBLE BEHAVIORS IN THE VICINITY OF MIXING VANE OF SPACER GRID**
- Junyi Zhang (Nuclear Power Institute of China), Xiao Yan (Nuclear Power Institute of China) and Jianjun Xu (Nuclear Power Institute of China)
- 14:00-14:25**      **SIMULATION OF THE HELICALLY COILED STEAM GENERATOR AND ITS THERMAL HYDRAULIC ANALYSIS WITH MODIFIED RELAP5/MOD3.3 CODE**
- Hongwei Hu (Xi'an Jiaotong University), Jianqiang Shan (Xi'an Jiaotong University), Junli Gou (Xi'an Jiaotong University), Bin Zhang (Xi'an Jiaotong University), Bo Zhang (Xi'an Jiaotong University) and Haitao Wang (Xi'an Jiaotong University)
- 14:25-14:50**      **THE BOUNDARY LAYER CHARACTERISTICS OF DIFFERENT TURBULENCE MODELS IN PREDICTING SUPERCRITICAL HEAT TRANSFER BEHAVIORS**
- Jinguang Zang (Nuclear Power Institute of China), Xiao Yan (Nuclear Power Institute of China), Shanfang Huang (Tsinghua University), Xiaokang Zeng (Nuclear Power Institute of China), Yongliang Li (Nuclear Power Institute of China) and Yanping Huang (Nuclear Power Institute of China)
- 14:50-15:10**      **BREAK**

Tuesday April 29th

15:10-16:50

**Chemistry Session**

**Room: Salon B**

**Chairs:**

- Liyan Qiu (Atomic Energy of Canada Limited)
- Kevin Boyle (NRCan CANMET-Materials)

15:10-15:35

**DENSITY DEPENDENCE OF THE RADIOLYSIS YIELDS OF PRIMARY SPECIES FROM FAST NEUTRON-IRRADIATED SUPERCRITICAL WATER AT 400 °C**

- Sofia Loren Butarbutar (Université de Sherbrooke), Jintana Meesungnoen (Université de Sherbrooke), David Guzonas (Atomic Energy of Canada Limited), Craig Stuart (Atomic Energy of Canada Limited) and Jean-Paul Jay-Gerin (Université de Sherbrooke)

15:35-16:00

**IN SITU X-RAY ABSORPTION SPECTROSCOPY STUDY OF RADIOLYSIS-INDUCED REDOX IN CHROMIUM NITRATE AQUEOUS SOLUTION UNDER SUPERCRITICAL CONDITION**

- Shuang Men (St. Francis Xavier University), Alan Anderson (St. Francis Xavier University) and Robert Mayanovic (Missouri State University)

16:00-16:25

**SOLUBILITIES OF FISSION PRODUCTS UNDER SUPERCRITICAL WATER-COOLED REACTOR CONDITIONS**

- Liyan Qiu (Atomic Energy of Canada Limited)

16:25-16:50

**CHEMICAL KINETIC MODEL CALCULATIONS FOR GAMMA-RADIOLYSIS OF SCW**

- Clara Wren (Western University)

16:50-18:00

**END OF DAY 2**

18:00-18:30

**PRE-BANQUET GATHERING**

18:30-21:00

**CONFERENCE BANQUET**

**ORBITAL MACHINE PRIMARY LOOP WELDING: A CHINESE/CANADIAN SUCCESS STORY**

- Speaker: Robert Pistor (Liburdi Corporation)

Tuesday April 29th

15:10-16:50

**Stability & Natural Circulation Session**

**Room: Salon C**

**Chairs:**

- Yingke Han (Atomic Energy of Canada Limited)
- Yu Tang (Nuclear Power Institute of China)

15:10-15:35

**EXPERIMENTAL INVESTIGATION ON TWO TYPES OF DENSITY-WAVE OSCILLATION IN PARALLEL TWIN RECTANGULAR CHANNELS**

- Yu Tang (Nuclear Power Institute of China), Bingde Chen (Nuclear Power Institute of China), Wanyu Xiong (Nuclear Power Institute of China) and Yanlin Wang (Nuclear Power Institute of China)

15:35-16:00

**FLOW-INDUCED VIBRATION ANALYSIS OF STEAM GENERATORS AND FUEL ASSEMBLIES WITH THE VIBIC COMPUTER CODE**

- Yingke Han (Atomic Energy of Canada Limited), Victor Janzen (Atomic Energy of Canada Limited), Bruce Smith (Atomic Energy of Canada Limited) and Nigel Fisher (Atomic Energy of Canada Limited)

16:00-16:25

**EXPERIMENTAL THERMAL-HYDRAULIC ANALYSIS OF A SUPER-CRITICAL CO<sub>2</sub> NATURAL CIRCULATION LOOP**

- Javad Mahmoudi (University of Manitoba), Vijay Chatoorgoon (University of Manitoba), Robert Derksen (University of Manitoba) and Laurence Leung (Atomic Energy of Canada Limited)

16:25-16:50

**NUMERICAL STATIC INSTABILITY ANALYSIS OF SUPERCRITICAL WATER FLOWING UPWARD IN A VERTICAL CHANNEL**

- Elaheh Ebrahimnia (University of Manitoba), Vijay Chatoorgoon (University of Manitoba), Scott Ormiston (University of Manitoba) and Laurence Leung (Atomic Energy of Canada Limited)

16:50-18:00

**END OF DAY 2**

18:00-18:30

**PRE-BANQUET GATHERING**

18:30-21:00

**CONFERENCE BANQUET**

**ORBITAL MACHINE PRIMARY LOOP WELDING: A CHINESE/CANADIAN SUCCESS STORY**

- Speaker: Robert Pistor (Liburdi Corporation)

Wednesday April 30th

**07:30-08:30**      **Continental Breakfast**

**08:30-10:10**      **Safety Analyses (1)**

**Room: Salon B**

**Chairs:**

- Wei Shen (Canadian Nuclear Safety Commission)
- Chao Liu (Institute of Nuclear Energy Safety Technology)

**8:30-8:55**      **CANDU NUCLEAR SAFETY RESEARCH AND DEVELOPMENT IN CANADA: CURRENT PROGRESS AND CHALLENGES**

- Wei Shen (Canadian Nuclear Safety Commission) and Frank Doyle (CANDU Owners Group)

**8:55-9:20**      **PRELIMINARY NO CORE MELT ASSESSMENT FOR CANADIAN SCWR WITH MODIFIED SCTRAN**

- Pan Wu (Xi'an Jiaotong University), Jianqiang Shan (Xi'an Jiaotong University), Junli Gou (Xi'an Jiaotong University), Bin Zhang (Xi'an Jiaotong University) and Bo Zhang (Xi'an Jiaotong University)

**9:20-9:45**      **REVOLUTIONARY SAFETY IMPROVEMENTS IN THE CANADIAN SCWR**

- David Novog (McMaster University), Metin Yetisir (Atomic Energy of Canada Limited) and Glenn McGee (Atomic Energy of Canada Limited)

**9:45-10:10**      **SAFETY ASPECTS OF SMALL AND MEDIUM SIZE REACTOR ACP100**

- Danrong Song (Nuclear Power Institute of China), Wei Zeng (Nuclear Power Institute of China) and Songtao Liu (Nuclear Power Institute of China)

**10:10-10:30**      **BREAK**



Wednesday April 30th

**10:30-12:10 Safety Analyses (2)**

**Room: Salon B**

**Chairs:**

- Jovica Riznic (Canadian Nuclear Safety Commission)
- Shujun Wang (Atomic Energy of Canada Limited)

**10:30-10:55 INVESTIGATION OF FLASHING FLOW OF SUBCOOLED LIQUID THROUGH MICROSLITS AND CRACKS**

- Shripad Revankar (Purdue University), Ram Vadlamani (Purdue University) and Jovica Riznic (Canadian Nuclear Safety Commission)

**10:55-11:20 PRELIMINARY NUMERICAL MODELING OF NO-CORE-MELT IN THE GENERATION IV CANADIAN SCWR**

- Graeme Schmidt (Carleton University), Metin Yetisir (Atomic Energy of Canada Limited) and John Goldak (Carleton University)

**11:20-11:45 ANALYSIS OF PASSIVE RESIDUAL HEAT REMOVAL SYSTEMS FOR THE CANADIAN SUPERCRITICAL WATER-COOLED REACTOR**

- Xianmin Huang (Atomic Energy of Canada Limited), Michel Gaudet (Atomic Energy of Canada Limited), Metin Yetisir (Atomic Energy of Canada Limited), Dave Wang (Atomic Energy of Canada Limited) and Shujun Wang (Atomic Energy of Canada Limited)

**11:45-12:00 CLOSING**

Thursday May 1st

**07:30-16:00**

**TECHNICAL TOUR  
(REGISTERED PARTICIPANTS ONLY)**

**07:30-08:30**

**Travel from Marriott Fallsview Hotel and Spa to Liburdi Engineering**

**08:30-10:00**

**Tour of Liburdi Engineering**

**10:00-10:30**

**Travel from Liburdi Engineering to NRCan Canmet-Materials Laboratory**

**10:30-12:00**

**Tour of NRCan Canmet-Materials Laboratory**

**12:00-12:30**

**Travel from NRCan Canmet-Materials Laboratory to McMaster University**

**12:30-13:45**

**Lunch at McMaster University**

**13:45-15:00**

**Tour of McMaster Research Reactor**

**15:00-16:00**

**Travel from McMaster University to Marriott Fallsview Hotel and Spa.**