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## Overall Program

Date	October 14	October 15	October 16	October 17	October 18
Time	Monday	Tuesday	Wednesday	Thursday	Friday
<b>Morning</b> 08:30-12:00	Registration (10:00-18:00)	Opening Ceremony	Panel 2: National and International Status and Progress	Panel 4: Fuel Technology	Panel 6: Hydrogen Production and Process Heat Applications
		Keynote Sessions			
		<i>Break</i>	<i>Break</i>	<i>Break</i>	<i>Break</i>
		Panel 1: HTR-PM Project	Panel 3: GIF-VHTR Status and Progress	Panel 5: Equipment and Supply	Closing Ceremony
<b>Lunch</b>		<i>Lunch Break</i>	<i>Lunch Break</i>	<i>Lunch Break</i>	<i>Lunch Break</i>
<b>Afternoon</b> 14:00-18:00		Parallel Sessions	Parallel Sessions	Parallel Sessions	Technical Visit (13:00-16:00)
		<i>Break</i>	<i>Break</i>	<i>Break</i>	
		Parallel Sessions	Parallel Sessions	Parallel Sessions	
<b>Evening</b> 18:00-21:00	Welcome Reception (18:00-20:00)	Conference Banquet (18:30-20:30)	Committee Meeting (19:00-21:00)		

## Keynote/Panel Sessions

October 15, Tuesday				
Session	Chair	Time	Speaker	Topic
Keynote Session	Haitao Wang	9:00-9:30	Frederik Reitsma	IAEA, Global Nuclear Power
		9:30-10:00	CNEA	Nuclear Power in China
<i>Break</i>		10:00-10:30		
Panel 1: HTR-PM Project	Dominique Hittner, Fu Li	10:30-10:50	Yujie Dong	Design and Safety
		10:50-11:10	Yuan Li	Generation IV Nuclear Power Plant: Construction, Operation and Maintenance of HTR-PM
		11:10-11:30	Chinergy	Chinergy
		11:30-11:50	Zhaolin Chen	Experience on HTR Safety Review
		11:50-12:10	Panel Discussion	Q&A

October 16, Wednesday				
Session	Chair	Time	Speaker	Topic
Panel 2: National and International Status and Progress	Manuel Pouchon Jun Sun	8:30-8:50	Dominique Hittner	An Example of International Cooperation: the European Program for the Development of High Temperature Nuclear Cogeneration
		8:50-9:10	Józef Sobolewski	EU Nuclear R&D Progress
		9:10-9:30	Chan Soo Kim	Status of Korean HTGR R&D
		9:30-9:50	Djarot Sulistio Wisnubroto	Indonesia's Nuclear Energy R&D: Progress and Future Prospects
		9:50-10:10	Panel Discussion	Q&A
<i>Break</i>		10:10-10:30		
Panel 3: GIF-VHTR Status and Progress	Frederik Reitsma Libin Sun	10:30-10:50	Bing Liu	GIF/VHTR/Fuel
		10:50-11:10	Manuel Pouchon	Materials Research in Frame of the GIF VHTR Materials Project Management Board
		11:10-11:30	Brent Wilhelm	Overview of Non-Electric Applications of Nuclear Heat R&D Activities in the Frame of GIF
		11:30-11:50	Sung Nam Lee	GIF/VHTR/CMVB
		11:50-12:10	Panel Discussion	Q&A

<b>October 17, Thursday</b>				
<b>Session</b>	<b>Chair</b>	<b>Time</b>	<b>Speaker</b>	<b>Topic</b>
Panel 4: Fuel Technology	Steven Knol Bing Liu	8:30-8:50	Christopher Reiser	NUKEM
		8:50-9:10	Ratih Langenati	BRIN, Indonesia
		9:10-9:30	Changsheng Deng	INET
		9:30-9:50	Dongbao Yu	202
		9:50-10:10	Panel Discussion	Q&A
<i>Break</i>		10:10-10:30		
Panel 5: Equipment and Supply	Józef Sobolewski Xiaowei Li	10:30-10:50	Chunlei Zhang	Exploration and Application of FirmSys in High Temperature Reactor
		10:50-11:10	Yuanhuan Xu	Pre/In-Service Inspection of High Temperature Gas Cooled Reactor
		11:10-11:30	Houzheng Wu	Progress in Developing Nuclear Graphite Grades for High Temperature Gas-cooled Reactor (HTGR) and Molten Salt Reactor (MSR)
		11:30-11:50	Wuxi Luo	HTR Nuclear Island Main Equipment Materials and Equipment R&D
		11:50-12:10	Panel Discussion	Q&A

<b>October 18, Friday</b>				
<b>Session</b>	<b>Chair</b>	<b>Time</b>	<b>Speaker</b>	<b>Topic</b>
Panel 6: Hydrogen Production and Process Heat Applications	Chan Soo Kim Ping Zhang	8:30-8:50	Zhanfeng Deng	Prospect and Challenge of Green Hydrogen in China
		8:50-9:10	Fangshui Cui	Innovative Practices in Coupling High-Temperature Gas-Cooled Reactors with Pressurized Water Reactors for Heat Supply
		9:10-9:30	Guoping Xiao	Progress and Performance of 200 kW SOEC System Integrated and Developed by SINAP
		9:30-9:50	Pierre Serre-combe	The Generation-IV International Forum and NEA Perspectives on Technologies and Markets for Advanced Reactor Systems
		9:50-10:10	Panel Discussion	Q&A

## Technical Session Program

Session	Session Chair	Track	Date	Room
Session 5-1	Frederik Reitsma	Track 5: Reactor Physics Analysis	15-Oct	Room 1
Session 5-2	Bing Xia	Track 5: Reactor Physics Analysis	15-Oct	Room 1
Session 6-1	CG du Toit	Track 6: Thermal-hydraulics, Structural and Multiphysics Analyses	15-Oct	Room 2
Session 6-2	Minghui Chen	Track 6: Thermal-hydraulics, Structural and Multiphysics Analyses	15-Oct	Room 2
Session 3-1	Karl Verfondern	Track 3: Fuel and Waste	15-Oct	Room 3
Session 3-2	Ratih Langenati	Track 3: Fuel and Waste	15-Oct	Room 3
Session 1-1	Sheng Fang	Track 1: National Research Programs and Industrial Projects	15-Oct	Room 4
Session 2-1	Sin-Yeob Kim	Track 2: Industrial Applications and Markets	15-Oct	Room 4
Session 5-3	Nina Widiawati	Track 5: Reactor Physics Analysis	16-Oct	Room 1
Session 3-3	Xiaotong Chen	Track 3: Fuel and Waste	16-Oct	Room 1
Session 6-3	Han Zhang	Track 6: Thermal-hydraulics, Structural and Multiphysics Analyses	16-Oct	Room 2
Session 6-4	Maciej Skrzypek	Track 6: Thermal-hydraulics, Structural and Multiphysics Analyses	16-Oct	Room 2
Session 7-1	Xinhe Qu	Track 7: Development, Design and Engineering	16-Oct	Room 3
Session 7-2	Jianghai Li	Track 7: Development, Design and Engineering	16-Oct	Room 3
Session 7-3	Yiyang Zhang	Track 7: Development, Design and Engineering	17-Oct	Room 1
Session 7-4	Haijiang Li	Track 7: Development, Design and Engineering	17-Oct	Room 1
Session 4-1	Wenjing Li	Track 4: Materials, Components and Manufacturing	17-Oct	Room 2
Session 4-2	Xiangwen Zhou	Track 4: Materials, Components and Manufacturing	17-Oct	Room 2
Session 8-1	Fubing Chen	Track 8: Safety and Licensing	17-Oct	Room 3
Session 8-2	Jiaxuan Zhang	Track 8: Safety and Licensing	17-Oct	Room 3

**October 15, 2024**

**Session 5-1, Track 5: Reactor Physics Analysis**

**14:00-15:40, Room 1**

**Session Chair: Frederik Reitsma**

<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
14:00-14:20	67	Neutronics and Thermal-Hydraulics Study of the PeLUIt-40 with Elevated Helium Outlet Temperatures	Nina Widiawati	National Research and Innovation Agency, Indonesia
14:20-14:40	68	Optimizing Fuel Management Strategy for PeLUIt-40	Nina Widiawati	National Research and Innovation Agency, Indonesia
14:40-15:00	72	Neutronic and Thermal-hydraulic Analysis of HTGR-based PeLUIt-40 Reactor with PANGU-DAYU Codes	Nina Widiawati	National Research and Innovation Agency, Indonesia
15:00-15:20	73	Burnable Poisons Utilization in the Small HTGR with MgO-BeO as a Composite-based Moderator	Irwan L. Simanullang	Kyushu University, Japan
15:20-15:40	81	A Concept of Fast Steady-state Thermal-hydraulic Feedback Calculator coupled with SERPENT Monte Carlo code	Dominik Muszyński	National Centre for Nuclear Research, Poland

**Session 5-2, Track 5: Reactor Physics Analysis**

**16:00-17:40, Room 1**

**Session Chair: Bing Xia**

<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
16:00-16:20	26	The Influence of Burnup Measuring Error on the Radioactive Safety and Fuel Economy in Pebble Bed HTR	Hongjian Zhang	Tsinghua University, China
16:20-16:40	164	The DEM-Monte Carlo coupled Approach for Determining Equilibrium State of Pebble-bed Reactor	Minghao Jiang	Zhejiang University, China
16:40-17:00	180	Development of a Diffusion Core Calculation Scheme for the GCMR	Xiang Xiao	China Nuclear Power Engineering Co., Ltd, China
17:00-17:20	85	Deterministic Neutronics Simulations of Pebble Bed Reactor with Griffin's Pebble Tracking Transport Algorithm	Liam Nils Carlson	Texas A&M University, USA
17:20-17:40	62	Review of Recent Verification Work and Numerical Method Improvements for Griffin Equilibrium core Modelling with a Focus on the Calculation of Burnup	Paolo Balestra	Idaho National Laboratory, USA

**Session 6-1, Track 6: Thermal-hydraulics, Structural and Multiphysics Analyses****14:00-15:40, Room 2****Session Chair: CG du Toit**

<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
14:00-14:20	33	CFD Investigation of Pressure Drop Factor and Nusselt Number for Flow in Zigzag Channels	Minghui Chen	University of Michigan, USA
14:20-14:40	135	Study of Taylor-Couette Flow Characteristics for Different Media	Yuan Zhou	Tsinghua University, China
14:40-15:00	100	Particle Deposition Characteristics in Printed-circuit Heat Exchanger	Qi Sun	Tsinghua University, China
15:00-15:20	118	An Experimental Study on the Scrubbing Characteristics of Graphite Dust Aerosol in HTGRs	Yating Wang	Tsinghua University, China
15:20-15:40	151	Microscopic Inspection and Analysis of Ball Screw Surface on High-temperature Reactor Absorber Ball Drive Mechanism	Feng Chen	Tsinghua University, China

**Session 6-2, Track 6: Thermal-hydraulics, Structural and Multiphysics Analyses****16:00-17:20, Room 2****Session Chair: Minghui Chen**

<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
16:00-16:20	37	Evaluation of the Fuel and Graphite Temperatures in a Micro Nuclear Reactor during a DLOFC	CG du Toit	North West University, South Africa
16:20-16:40	92	Analysis of DLOFC Accident in HTR-10 Operating at Higher Temperatures	Han Zhang	Tsinghua University, China
16:40-17:00	93	Analysis of Control Rod Withdrawal Accident in HTR-10 Operating at Higher Temperatures	Han Zhang	Tsinghua University, China
17:00-17:20	64	Design and Analysis of Separate Heat Pipe - based Passive Residual Heat Removal System for HTR-PM	Yanzhi Li	Tsinghua University, China

### Session 3-1, Track 3: Fuel and Waste

14:00-15:40, Room 3

Session Chair: Karl Verfondern

Time	Paper ID	Title	Presenter	Affiliation
14:00-14:20	55	Effects of Urea and Cerium Addition in ZrO <sub>2</sub> Microspheres Characteristic as UO <sub>2</sub> Surrogate Material for High Temperature Gas-cooled Reactor Fuel	Muhammad Ilham Bayquni	National Research and Innovation Agency, Indonesia
14:20-14:40	212	Study on Influencing Factors of UO <sub>2</sub> Kernel Particles Surface Defects and Process Optimization	Lei Chen	China North Nuclear Fuel Co., Ltd, China
14:40-15:00	56	Preparation Zirconium nitride (ZrN) microspheres as Surrogate Precursor for Uranium Nitride Microspheres using External Gelation	Ratih Langenati	National Research and Innovation Agency, Indonesia
15:00-15:20	210	Study on Preparation of UN microspheres by external gelation of uranium process	Xiaodong Pan	China North Nuclear Fuel Co., Ltd, China
15:20-15:40	94	Design and Preparation of Ceramic-metal Composite Coating Layer for Advanced Dispersed Nuclear Fuel Element	Xu Yang	Tsinghua University, China

### Session 3-2, Track 3: Fuel and Waste

16:00-17:00, Room 3

Session Chair: Ratih Langenati

Time	Paper ID	Title	Presenter	Affiliation
16:00-16:20	59	Preparation of SiC Composite Coatings on the Surface of Graphite Spheres for HTR Fuel Element	Hui Yang	Tsinghua University, China
16:20-16:40	75	Variation of Gas Spouting Velocity of TRISO Particles Coating Process in Mini FB-CVD Reactor Using CFD Simulations	Praditya Vankabo	National Research and Innovation Agency, Indonesia
16:40-17:00	104	CP Thermodynamics and Carbon Oxides Pressure in Microfuel Elements with UO <sub>2</sub> Kernels	Alexander Ivanov	NRC "Kurchatov Institute", Russia



**Session 1-1, Track 1: National Research Programs and Industrial Projects**

**14:00-15:40, Room 4**

**Session Chair: Sheng Fang**

<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
14:00-14:20	70	Advancing Nuclear Energy in Indonesia: A Strategic Assessment of HTGR Localization and Nuclear Power Development	Djarot Wisnubroto	National Research and Innovation Agency, Indonesia
14:20-14:40	89	Polish-Japanese Collaborative Design of the Research-demo High Temperature Gas-cooled Reactor "POLA"	Mariusz Dąbrowski	National Centre for Nuclear Research, Poland
14:40-15:00	125	Current Research Activities in the Field of Materials and Technologies for Advanced Helium-cooled Reactors in Czech Republic	Jan Berka	Centrum vyzkumu, Czech Republic
15:00-15:20	195	History and Status of the TRISO-pebblebed Technology in Germany	Jochen Karl Michels	Unternehmensberatung für Energie und Finanzen, Germany
15:20-15:40	77	Nuclear Power Plant for Process Heat Applications with High-Temperature Gas-Cooled Reactor and Hydrogen Production Unit to Produce Large-Scale Environmentally-Friendly Hydrogen and New Hydrogen-based Products	Ponomarev-Stepnoy N.N.	Rosatom enterprise, Russia

**Session 2-1, Track 2: Industrial Applications and Markets****16:00-17:20, Room 4****Session Chair: Sin-Yeob Kim**

<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
16:00-16:20	87	GEMINI 4.0, A Project for Developing Poly-generation of Hydrogen, Process Heat and Electricity for Industry	Dominique Hittner	Hit Tech Relay, France
16:20-16:40	107	Investigation on Off-design Performance of a Very-high-temperature Gas-cooled Reactor-based Hydrogen and Electricity Joint Production System	Hang Ni	Tsinghua University, China
16:40-17:00	153	INET's Research on SO <sub>2</sub> Depolarized Electrolyzer Design and Scale-up for Nuclear Hydrogen Production	Ping Zhang	Tsinghua University, China
17:00-17:20	142	Integral Test for Hydrogen Production using High-temperature Steam Electrolysis in conjunction with Helium Loop	Sin-Yeob Kim	Korea Atomic Energy Research Institute, Korea

## October 16, 2024

### Session 5-3, Track 5: Reactor Physics Analysis

14:00-15:40, Room 1

Session Chair: Nina Widiawati

Time	Paper ID	Title	Presenter	Affiliation
14:00-14:20	148	Non-standard Reactivity Analysis Considerations contributing to a Robust Pebble Bed Design	Frederik Reitsma	North West University, South Africa
14:20-14:40	186	Methodology of the High-fidelity Discrete Simulation for Fuel Pebble Flow and Depletion of PB-HTR	Hongwei Wu	Tsinghua University, China
14:40-15:00	Presentation only	General Representation of the On-line Refueling Operation of PB-HTRs	Bing Xia	Tsinghua University, China
15:00-15:20	121	Burnup Analysis of HTR-PM with Infinity-times Refueling	Yizhen Wang	Harbin Engineering University, China
15:20-15:40	146	Validation of Control Rod Worth Calculation	Xinyu Jiang	Tsinghua University, China

### Session 3-3, Track 3: Fuel and Waste

16:00-17:20, Room 1

Session Chair: Xiaotong Chen

Time	Paper ID	Title	Presenter	Affiliation
16:00-16:20	139	The Source Term Analysis of HTR Irradiated Fuel Pebbles	Xiaotong Chen	Tsinghua University, China
16:20-16:40	96	Fuel and Graphite Waste Management Strategies for the HTGR Reactor GEMINI +	Dominique Hittner	Hit Tech Relay, France
16:40-17:00	65	An Influence Study on Radioisotopes Release from TRISO Fuel Particles in Pebble-bed HTGR	Jian Li	Tsinghua University, China
17:00-17:20	58	A Numerical and Experimental Investigation of Natural Convection Heat Removal in HTGR Spent Fuel Dry Cask	Ratiko	National Research and Innovation Agency, Indonesia

### Session 6-3, Track 6: Thermal-hydraulics, Structural and Multiphysics Analyses

14:00-15:40, Room 2

Session Chair: Han Zhang

Time	Paper ID	Title	Presenter	Affiliation
14:00-14:20	163	Multiphysics Coupling of Monte Carlo Neutronic and CFD Thermal-hydraulic Simulations for Small Modular High-temperature Gas-cooled Reactors	Guillaume Leclerc	Jimmy Energy, France
14:20-14:40	57	Thermal-hydraulic and Neutronic Deterministic Safety Analysis for the HTGR SMR Research Demonstrator for Poland	Maciej Skrzypek	National Centre for Nuclear Research, Poland
14:40-15:00	116	Thermal-hydraulic Analysis of the HTR-PM Core based on HTR code package	Jiaxuan Zhang	Technical University of Munich, <b>Germany</b>
15:00-15:20	71	Real-time Simulation Optimization of HTR-PM600 Simulator	Junlin Fang	Tsinghua University, China
15:20-15:40	51	Three-dimensional Radiation View Factor Calculation in DAYU-3D Program	Xinsheng Xu	Tsinghua University, China

### Session 6-4, Track 6: Thermal-hydraulics, Structural and Multiphysics Analyses

16:00-17:20, Room 2

Session Chair: Maciej Skrzypek

Time	Paper ID	Title	Presenter	Affiliation
16:00-16:20	193	Interest of Local Packing Fraction Definition in Pebble Bed High Temperature Gas Cooled Reactor Thermal Hydraulic Simulation	Ludovic Jantzen	University of California Berkeley, USA
16:20-16:40	124	A Hexahedral Meshing Algorithm for Randomly Packed Pebble Bed using a Grid - based Method	Guihua Lai	Tsinghua University, China
16:40-17:00	54	Physics Informed Neural Networks for Solving Steady-state Heat Conduction Equation of Fuel Pebble in High Temperature Gas-cooled Reactors	Yankai Wang	Harbin Engineering University, China
17:00-17:20	126	Experimental Study on Flow Characteristics of Helium in Binary Pebble Beds	Feifan Liu	Chongqing University, China

**Session 7-1, Track 7: Development, Design and Engineering****14:00-15:40, Room 3****Session Chair: Xinhe Qu**

<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
14:00-14:20	111	Commissioning of HTR-PM reactor cavity cooling system and operation parameter prediction after accident	Haiqi Qin	Tsinghua University, China
14:20-14:40	147	Investigating the Off-design Performance of the Double-module High-temperature Gas-cooled Reactor Nuclear Power Plant	Xin Wang	Tsinghua University, China
14:40-15:00	106	Simulation Modelling of Secondary Loop of PeLUIt-40 Reactor Using vPower	Sudarno	National Research and Innovation Agency, Indonesia
15:00-15:20	154-Presentation only	Research on Thermodynamic Temperature Measurement of High-temperature Helium based on Acoustic Gas Resonance Thermometry	Kechen Ouyang	Tsinghua University, China
15:20-15:40	149	Design of the Spent Fuel Storage System for HTR-PM600	Jinhua Wang	Tsinghua University, China

**Session 7-2, Track 7: Development, Design and Engineering****16:00-17:20, Room 3****Session Chair: Jianghai Li**

<b>Time</b>	<b>Paper ID</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
16:00-16:20	136	Computerized Operating Procedure System (COPS) of HTR	Jianghai Li	Tsinghua University, China
16:20-16:40	155	Research on High Performance Data Acquisition Technology of High Temperature Reactor I&C System	Yingying Zhang	China Nuclear Control System Engineering Co.,Ltd, China
16:40-17:00	27	Simplifying Reactor Protection Systems in High-temperature Gas-cooled Reactors: An Exploration	Boyuan Li	Tsinghua University, China
17:00-17:20	172	Application of Digital Foreign Material Exclusion Management Technology in Nuclear Power Enterprises	Yiheng Zhang	CNNC Zhenneng Energy Co., Ltd, China

## October 17, 2024

### Session 7-3, Track 7: Development, Design and Engineering

14:00-15:40, Room 1

Session Chair: Yiyang Zhang

Time	Paper ID	Title	Presenter	Affiliation
14:00-14:20	112	Wall Channeling Effect Caused Bypass Flow in a Randomly Packed Pebble Bed	Xiaowei Li	Tsinghua University, China
14:20-14:40	102	Influences of Boundary Conditions on Pulsation Characteristics and Stability Boundary of Density Wave Oscillation	Yang Su	Tsinghua University, China
14:40-15:00	143	The Design and Development of the Process Radiation Monitoring System of the HTGR in China	Yu Wang	Tsinghua University, China
15:00-15:20	127	Improvement on HTR-PM Demo Projects Based on HTR-10 Experience Feedback	Ling Liu	Tsinghua University, China
15:20-15:40	200	Cost Estimate and Economic Justification for Nuclear Reactors - in particular the TRISO Pebblebed-reactor	Jochen Karl Michels	Unternehmensberatung für Energie und Finanzen, Germany

### Session 7-4, Track 7: Development, Design and Engineering

16:00-17:20, Room 1

Session Chair: Haijiang Li

Time	Paper ID	Title	Presenter	Affiliation
16:00-16:20	132	Reliability Analysis of Redundant Controller in DCS System Based on Markov Model	Yang Zhong	China Nuclear Control System Engineering Co.,Ltd, China
16:20-16:40	130	Cybersecurity Design for DCS Control System in High Temperature Reactor Nuclear Power Plants	Yuan Xiang	China Nuclear Control System Engineering Co.,Ltd, China
16:40-17:00	141	DCS Network Structure Design of HTR	Zhiming Zhang	China Nuclear Control System Engineering Co.,Ltd, China
17:00-17:20	170	Research on Cyber Security Protection of NPP Non - safety DCS based on NicSys®2000	Liu Rui	China Nuclear Control System Engineering Co.,Ltd, China

#### Session 4-1, Track 4: Materials, Components and Manufacturing

14:00-15:40, Room 2

Session Chair: Wenjing Li

Time	Paper ID	Title	Presenter	Affiliation
14:00-14:20	32	Design Development for Pressure Vessel Steam Generator in a High-temperature Gas-cooled Reactors PeLUit-40 using Finite Element Method (FEM)	Muhammad Subhan	National Research and Innovation Agency, Indonesia
14:20-14:40	120	Oxidation Behavior and Tensile Properties of Inconel 617 after Aging in Air and Helium Containing 100 ppm Oxygen at 950°C	Bin Du	Tsinghua University, China
14:40-15:00	123	High Temperature Properties and Microstructure of Incoloy 800H Weldment with Haynes 230 Filler Material	Wenjing Li	Canadian Nuclear Laboratories, Canada
15:00-15:20	128	Corrosion Resistance of the Alloy 800H in Static and Flowing Helium at 760 °C	Tereza Valkova	Research centre Rez, Czech Republic
15:20-15:40	138	Simulation Study on Structural Health Monitoring of Nuclear Fuel Discharge Tube in High Temperature Gas-cooled Reactor	Chenkai Feng	Tsinghua University, China

#### Session 4-2, Track 4: Materials, Components and Manufacturing

16:00-17:00, Room 2

Session Chair: Xiangwen Zhou

Time	Paper ID	Title	Presenter	Affiliation
16:00-16:20	74	Analysis and Evaluation of Mining Areas of Nuclear-grade Natural Graphite Powder for the HTR Pebble Fuel Elements	Xi Tong	Tsinghua University, China
16:20-16:40	156	Measurement and Study of the Tensile Strength of the Nuclear Graphite Discs	Yuanyuan Ma	Tsinghua University, China
16:40-17:00	187- Presentation only	NRG's Graphite Irradiation Projects for SIAMC for HTR Application	Chichi Li	Nuclear Research and consultancy Group, Netherlands

### Session 8-1, Track 8: Safety and Licensing

14:00-15:40, Room 3

Session Chair: Fubing Chen

Time	Paper ID	Title	Presenter	Affiliation
14:00-14:20	95	Consolidation of the High Temperature Gas Reactor Code Package HCP	Jiaxuan Zhang	Technical University Munich, Germany
14:20-14:40	99	Licensing Path for a Prototype HTGR in Europe – Preliminary Results from GEMINI 4.0 European Project	Dominique Hittner	Hit Tech Relay, France
14:40-15:00	108	Project plan of HTTR heat application test facility - Safety design and Safety analysis -	Takeshi Aoki	Japan Atomic Energy Agency, Japan
15:00-15:20	161	Safety Classification for Modular HTGRs in China	Tianyun Liu	Tsinghua University, China
15:20-15:40	114	Preliminary Radiation Field Analysis of HTR-PM600 Main Shield Based on Monte Carlo Method	Junyi Chen	Tsinghua University, China

### Session 8-2, Track 8: Safety and Licensing

16:00-17:00, Room 3

Session Chair: Jiaxuan Zhang

Time	Paper ID	Title	Presenter	Affiliation
16:00-16:20	103	A Comparative Analysis on Fission Product Release in HTR Spherical Fuel Elements	Chenhao Cao	Tsinghua University, China
16:20-16:40	160	Study on the Generation and Release of <sup>14</sup> C in the Primary Loop of HTR-10	Penghui Xiao	Tsinghua University, China
16:40-17:00	145	Preliminary Research of High Temperature Gas-cooled Reactor on Risk-informed, Performance-based Design Methodology	Qi Shi	Chinergy Co., Ltd, China