# HTR2018 conference schedule

	8 October (Monday)					9 October (Tuesday)					10 October (Wednesday)			
9.00 – 11.00	Plenary session Governmental perspective room: IRYS+RÓŻA				_	T.5 room: LILIA	T.8 room: IRYS	T.3 room: ROZA	T.6 room: PROMENADA		T.7 room: LILIA	T.8 room: IRYS	T.3 room: ROZA	T.4 room: PROMENADA
11.00 – 11.30	Coffee break					Coffee break					Coffee break			
11.30 – 13.00	Plenary session  Achievements and plans room: IRYS+RÖŻA					T.7 room: LILIA	T.8 room: IRYS	T.3 room: ROZA	T.6 room: PROMENADA		T.7 room: LILIA	T.8 room: IRYS	T.3 room: ROZA	T.4 room: PROMENADA
13.00 – 14.00	Lunch					Lunch					Lunch			
14.00 – 16.00	T.5 room: LILIA	T.1 room: IRIS	T.2 room: ROZA	T.6 room: PROMENADA	_	T.7 room: LILIA	T.8 room: IRYS	T.3 room: ROZA	T.4 room: PROMENADA	Plenary session <b>Towards the future</b> room: IRYS+RÖŻA				
16.00 - 16.30	Coffee break				Ī	Coffee break				Coffee break				
16.30 – 18.00	T.5 room: LILIA	T.1 room: IRYS	T.3 room: ROZA	T.6 room: PROMENADA		T.7 room: LILIA		T.3 room: ROZA	T.4 room: PROMENADA	Closing plenary panel room: IRYS+RÓŻA				
20:30 – 22:00					CONFERENCE DINNER room: LILIA+IRYS+RÓŻA									

# **Plenary sessions** (room: IRYS+RÓŻA)

## Monday, 8 October

# 9:00 - 11:00 Governmental perspective

Chair: Grzegorz WROCHNA, NCBJ

- Krzysztof TCHÓRZEWSKI, Minister of Energy, Poland; Józef SOBOLEWSKI, Director of Nuclear Energy Department, Ministry of Energy, Poland
- William MAGWOOD, OECD / NEA Director General
- Michael GOFF, White House Senior Policy Advisor
- Rob ARNOLD, Department for Business, Energy and Industrial Strategy, UK
- Naoyuki UEDA, Deputy Director, Atomic Energy
  Division, Research and Development Bureau, Ministry of
  Education, Culture, Sports, Science and Technology
  (MEXT), Japan;

**Kazuhiko KUNITOMI**, Deputy Director General for Sector of Fast Reactor and Advanced Reactor Research and Development, Japan Atomic Energy Agency (JAEA), Japan

## 11:30 - 13:00 Achievements and plans

Chair: Eileen LANGEGGER, European Nuclear Society

- Michał KURTYKA, Secretary of State, Ministry of Environment, Poland
- **DONG Yujie**, Deputy Director of Institute of Nuclear and New Energy Technology, Tsinghua University, China
- Kam GHAFFARIAN, CEO of X-energy, USA

### Wednesday, 10 October

#### 14:00 - 16:00 Towards the future

Chair: Jerzy CETNAR, AGH Technical University

- Metin YETISIR, Head of Advanced Reactor Technologies Section, Canadian National Laboratory
- Djarot WISNUBROTO, Chair of the National Nuclear Energy Agency of Indonesia (BATAN)
- Andrzej GŁOWACKI, Deputy Director of Nuclear Safety Department of National Atomic Energy Agency (PAA), Poland
- **Donald HOFFMAN**, CEO of Excel Services Corporation, USA
- Eileen LANGEGGER, European Nuclear Society
- discussion

# **16:30 - 18:00** Closing plenary panel

Chair: Michael Fütterer, JRC

- Track Leaders track highlights
- **Błażej CHMIELARZ**, USNC young generation impressions from the conference

#### Parallel sessions

#### Monday, 8 October, 14:00-16:00

# Track 1: National Research Programs and Industrial Projects - room: IRYS

Chair: <u>Geni Rina SUNARYO</u>, Director, Centre for Nuclear Reactor Safety and Technology, National Nuclear Energy Agency of Indonesia (BATAN), Indonesia, <u>Donald HOFFMAN</u>, CEO, Excel Services Corporation, USA

- 24' Frederik REITSMA (IAEA) IAEA Technology Development Support to Member States for the Near-Term Deployment of High Temperature Reactors
- 24' Grzegorz WROCHNA (NCBJ) Actions towards HTGR deployment in Poland
- 24' Hans GOUGAR (Idaho National Laboratory) Status Report on HTR Research, Development, and Deployment in the USA
- 24' Yuji FUKAYA (JAEA) Study on Pu-burner High Temperature Gas-cooled Reactor in Japan - 6. Introduction scenario
- 24' **Dominique HITTNER (LGI)** The GEMINI+ project to initiate the demonstration of industrial nuclear cogeneration in Europe

## Track 2: Industrial Applications and Markets - room: RÓŻA

Chair: Michael A. Fütterer, Joint Research Centre

- 24' Syaiful Bakhri, (Center for Nuclear Reactor Technology and Safety, National Nuclear Energy Agency, Indonesia), Design Development of Test Facilities for Reaktor Daya Eksperimental (RDE)
- 24' Jin IWATSUKI (JAEA) Conceptual Design of the Steam Reforming System for Hydrogen Production connected to HTTR
- 24' **Hiroaki TAKEGAMI (JAEA)** Current R&D status of thermochemical water splitting hydrogen production iodine-sulfur process in Japan Atomic Energy Agency (I) Hydrogen production test and component development 24' **Yu KAMIJI (JAEA)** Current R&D status of thermochemical water
- splitting hydrogen production iodine-sulfur process in Japan Atomic Energy Agency (II) Reliability improvements of corrosion-resistant equipment
- 24' Michael McKellar (University of Idaho) Optimal Performance of Power Conversion Units and their Integration with Nuclear Reactors

#### Track 5: Reactor Physics Analysis - room: LILIA

Chair: Farzad Rahnema, Georgia Institute of Technology

- 30' Chen Hao (Harbin Engineering University), Mechanism Analysis of the Effect of Random Packing of Fuel Particles on the Contributions of Nuclear Data Uncertainties to the Eigenvalue results in the Pebble Bed HTR
- 30' **Tae Young Han (Korea Atomic Energy Research Institute)** Verification of Pin-based Pointwise Energy Slowing-down Method on VHTR fuel problems
- 30' Elena Lagzdina (Center for Physical Sciences and Technology) Modelling of graphite properties for GT-MHR loaded with Pu fuel
- 30' **Gerhard Strydom (INL)** *IAEA CRP on HTGR UAM: Propagation of Phase I cross section uncertainties to Phase II neutronics steady state using SCALE/SAMPLER and PHISICS/RELAP5-3D*

## Track 6: Computer Codes and Analysis - room: PROMENADA

Chair: Martin Van Staden, X-Energy, LLC

- 20' **Jarmo Kalilainen (PSI)** Loss of forced cooling accident analysis of HTR-PM using the MELCOR 2
- 20' Andrea Alfonsi (IDAHO NATIONAL LABORATORY) Decay Heat Surrogate Modeling for High Temperature Reactors
- 20' Charl Du Toit (North-West University) Effect of reactor vessel cooling insulation and reflector heat pipes on the temperatures of a pebble-bed reactor using a system CFD approach
- 20' Peter Niemand (North-West University) Code-to-code comparison of natural convective flow in an experimental facility
- 20' **Paolo Balestra (NCSU)** Modular High Temperature Gas Reactor Core Modeling with RELAP5-3D/PHISICS – Optimization Schemes for Load Following
- 20' Paul Humrickhouse (Idaho National Laboratory), RELAP5 Modeling of the HTTR-GT/H2 Secondary System and Turbomachinery

#### Monday, 8 October, 16:30-18:00

# Track 1: National Research Programs and Industrial Projects - room: IRVS

Chair: <u>Frederik Reitsma.</u> Team Leader: SMR Technology Development; International Atomic Energy Agency, <u>Mr Yugie Dong</u>, Deputy Director INET; Tsinghua University, China

30' **Finis Southworth:** NGNP: A Public-Private Partnership and Lessons Learned

30' Michael A. FÜTTERER (European Commission - JRC) Recent Advances in the GIF Very High Temperature Reactor System 30' Jan Berka (Centrum vyzkumu Rez s.r.o.) Results of Czech VHTR and GFR research program

## Track 5: Reactor Physics Analysis - room: LILIA

Chair: Gerhard Strydom, INL

30' Farzad Rahnema (Georgia Institute of Technology) Continuous-Energy COMET Solution of the VHTR Core

30' **Ding She (Tsinghua University)** Progress on the PANGU code for pebble bed HTGR neutronic analysis

30' Hans Gougar (Idaho National Laboratory) A Computational Scheme for PBR Core Analysis using Classical Homogenization Method Codes

# Track 3: Fuel and Waste - TRISO Particle Fabrication

room: **RÓŻA** 

Chair: Bing Liu, INET Tsinghua University

22' **Grant Helmreich (ORNL, USA)** Enhanced method for analysis of individual UCO kernel phase fractions

22' **Joshua Kane (Idaho National Laboratory)** 3-D Characterization of LEU Fuel Kernels within Advanced Gas Reactor Compacts via X-ray Tomography

22' **Shohei Ueta (JAPAN ATOMIC ENERGY AGENCY)** Study on Pu-burner High Temperature Gas-cooled Reactor in Japan - Test and characterization for ZrC coating

22' Masaki Honda (Nuclear Fuel Industries, LTD.) Study on Pu-burner High Temperature Gas-cooled Reactor in Japan - 4. 3S-TRISO fuel fabrication

### Track 6: Computer Codes and Analysis

room: PROMENADA

Chair: Martin Van Staden, X-Energy, LLC

20' Hans Gougar (Idaho National Laboratory) Identification and Characterization of Thermal Fluid Phenomena Associated with Selected Operating/Accident Scenarios in Modular High Temperature Gas-cooled Reactors

20' **Wei Peng (Tsinghua University)** Numerical simulation for air-cooled oil cooler of helium circulator in IHX facility test

20' SHOJI TAKADA (Department of HTTR) Oarai Research and Development Center, Japan Atomic Energy Agency (JAEA)) Numerical Evaluation on Fluctuation Absorption Characteristics Based on Nuclear Heat Supply Fluctuation Test Using HTTR

20' **Bowen Li (Tsinghua University)** Least Square Support Vector Machine Based Anomaly Diagnose Method for Nuclear Steam Supply Systems

#### Tuesday, 9 October, 9:00-11:00

Track 8: Safety and Licensing

room: IRYS

Chair: Fu LI, INET Tsinghua University

30' Kazuyuki Demachi (University of Tokyo) Study on Pu-burner High Temperature Gas-cooled Reactor in Japan - 7. Security evaluation 30' Hans-Josef Allelein (Institute of Reactor Safety and Reactor Technology (LRST), RWTH Aachen University; Institute of Energy and Climate Research (IEK-6), Forschungszentrum Jülich GmbH) Transport, Deposition and Resuspension of Graphite Dust in Helium Atmosphere at High Temperatures – Experiments and Simulation

30' **Tetsuaki Takeda (University of Yamanashi)** Study on air ingress processes during a depressurization accident of VHTR

30' **Fu L1 (Tsinghua University)** One implementation of vented low pressure containment for HTR

Track 3: Fuel and Waste - Fuel Element Fabrication

room: **RÓŻA** 

Chair: John Hunn, Oak Ridge National Laboratory

24' **Frederik Reitsma (IAEA)** Randomly Uniform Particle Distributions In A Sphere

24' **Grant Helmreich (ORNL)** New method for analysis of x-ray computed tomography scans of TRISO fuel forms

24' Xiangang WANG (Tsinghua University) Statistical Evaluation of TRISO Distribution of HTGR Fuel

24' Xiangwen Zhou (Tsinghua University) Effects of purification on the properties and microstructure of natural flake and artificail graphite powders

24' Pete Pappano (X-Energy, LLC) Update on X-energy (USA) UCO TRISOparticle Based Fuel Element Pebble Fabrication Efforts

**Track 5: Reactor Physics Analysis** 

room: LILIA

Chair: Gerhard Strydom, INL

30' **Seungsu Yuk (KAERI)** Development of the CAPP Code for Transient Analysis of a Block-Type VHTR Core

30' Hans Gougar (Idaho National Laboratory) Suitability of Energy Group Structures Commonly Used in Pebble Bed Reactor Core Diffusion Analysis as Indicated by Agreement with Transport Theory for Selected Spectral Indices

30' **Hans Gougar (Idaho National Laboratory)** Spectral Zones Determination in Pebble Bed Reactors

30' Václav Šísl (Czech Technical University in Prague) Mixed LEU-Th Initial Core and Running-In Phase for HTR-PM Reactor #133

Track 6: Computer Codes and Analysis room: PROMENADA

Chair: Iim Kuijper (NUCLIC)

20' **Izabela Gutowska (Oregon state University)** *Modeling of HTTF Inlet Plenum Flow Distribution During Normal Operation* 

20' Martin Van Staden (X-Energy, LLC) Explicit Modelling of Randomly Packed Pebble Bed Using RANS CFD Modelling

20' **Sung Nam Lee (KAERI)** Numerical Analysis on the Scaled Air Cooled RCCS Test Facility

20' Tianjin Li (Tsinghua University) CFD-DEM simulation of particle vertical conveying in small absorber sphere system

20' **Boyan Neykov (X-Energy, LLC)** *CFD V&V of the porous media pebble bed conjugate heat transfer model* 

20' Muhammad Subekti (Center for Nuclear Reactor Technology and Safety, BATAN) Benchmarking The CFD Code for RDE's Core Calculation

# Tuesday, 9 October, 11:30 - 13:00

Track 8: Safety and Licensing room: IRYS Chair: Farshid Shahrokhi, Framatome Inc.  22' Chris Molseed (Framatome Inc.) Reactor Building Response to Depressurization Events for Framatome Modular HTGR Concept 22' Yanhua Zheng (Tsinghua University) Discuss on the accident behavior and accident management of HTGR 22' Martin Van Staden (X-energy, LLC) Preliminary Safety Risk Evaluation for the Xe-100 22' Martin Van Staden (X-Energy, LLC) Exploring Passive Safety Features During Design and Regulatory Interaction	Track 7: Development, Design and Engineering room: LILIA Chair: Lewis Lommers, Framatome Inc., Xing L. Yan, JAEA  20' Hai Quan Ho (JAEA) Feasibility study of new applications at the high-temperature gas-cooled reactor 20' Khairul Handono (Center for Nuclear Facilities Engineering) Electrical and Instrumentation Design of Cavity Cooling Test Loop of Reaktor Daya Eksperimental (RDE) 20' Eben Mulder (X Energy, LLC) NEUTRONICS CHARACTERISTICS OF A 165 MWTH XE-100 REACTOR 20' Xuying QIN / Fubing Chen (Institute of Nuclear and New Energy Technology, Tsinghua University, Collaborative Innovation Center of Advanced Nuclear Energy Technology, Key Laboratory of Advanced Reactor Engineering and Safety, Ministry of Education) Applicability of China's Current Techno-Economic Standards on Economic Evaluation of Modular High Temperature Gas-cooled Reactors
Track 3: Fuel and Waste - Coating Process Simulation room: RÓŻA Chair: Tyler Gerczak, Oak Ridge National Laboratory  25' Malin LIU (Tsinghua University) Scale-up study of FB-CVD process for TRISO particle fabrication based on numerical simulation 25' Meng CHEN/Malin LIU (Tsinghua University) Numerical simulation study of particle coating process by FB-CVD method 25' Zhao Chen (Tsinghua University) Numerical simulation of nanoparticle formation in FB-CVD process using a modified DEM model	Track 6: Computer Codes and Analysis room: PROMENADA Chair: Jim Kuijper (NUCLIC) 20' Yiyang Zhang (Tsinghua University) A Finite-Element Method (FEM) Study on the Deposition of Non-spherical Graphite Particles in High Temperature Gas-cooled Reactor (HGTR) 20' Xiaoxin Wang (Tsinghua University) Seismic Soil-Structure Interaction Analysis on HTR-10 at Various Sites 20' Ding She (Tsinghua University) Status of development of an integrated source term analysis code package for HTGR 20' Arya Adhyaksa Waskita (BATAN) Study on Effect of Latin Hypercube Sampling Method in TRISO Fuel Performance Analysis

#### Tuesday, 9 October, 14:00 - 16:00

Track 8: Safety and Licensing

room: IRYS

Chair: Fu LI, INET Tsinghua University

30' **Liguo Zhang (Tsinghua University)** Technical Framework for Nuclear Material Accounting of Pebble Bed HTR

30' Andreas Andris (Technische Universität Dresden) Felix Fischer

The behaviour and the influence of graphitic particles under hightemperature gas-cooled reactors conditions

30' **Masaaki Nakano (Fuji Electric)** Study on Pu-burner High Temperature Gas-cooled Reactor in Japan - 3. Reactor Safety Analyses and Maximum Achievable Reactor power

30' Hai Quan Ho (Japan Atomic Energy Agency) Study on source of radioactive material in primary coolant of HTTR

Track 3: Fuel and Waste - Mechanisms of Fission Product Release room: RÓŻA

Chair: Paul Demkowicz, Idaho National Laboratory

24' Isabella van Rooyen (Idaho National Laboratory) Microstructure and Fission Product Distribution Examination in the UCO kernel of TRISO Fuel Particles

24' **Tyler Gerczak (ORNL)** Analysis of fission product distribution and composition in the TRISO layers of AGR-2 fuel

24' **Isabella van Rooyen (Idaho National Laboratory)** *Effect of Neutron Irradiation Damage on Fission Product Transport in the SiC Layer of TRISO Fuel Particles* 

24' Thomas Lillo (Idaho National Laboratory) Grain Boundary Characteristics of SiC in Irradiated, AGR-2 TRISO Particles

24' **Tyler Gerczak (ORNL)** Development of Planar PyC/SiC Diffusion Couples to Investigate Irradiation Effects and Microstructural Variation on Fission Product Diffusion

Track 7: Development, Design and Engineering

room: LILIA

Chair: H.-J. Allelein, FZJ, Lewis Lommers, Framatome Inc.

20' **Zhuo Ren (Tsinghua University)** Numerical Studies on Local Heat Transfer Characteristics of Printed Circuit Heat Exchanger for Supercritical CO2 Power Cycle

20' **Yuji Fukaya (JAEA)** Conceptual Design Study of a High Performance Commercial HTGR

20' **Lewis Lommers (Framatome Inc.)** Main Features of the Reactor Cavity Cooling System for the Framatome SC-HTGR

20' Wayne Boyes (North West University) A neutronic study to reduce the costs of pebble bed reactors by varying fuel compositions

Track 4: Materials, Components and Manufacturing - Graphite I room: PROMENADA

Chair: Manuel Pouchon, PSI, William Windes (INL)

25' William Windes (Idaho National Laboratory) The USA's advanced graphite creep (AGC) irradiation experiment

25' **DONGQING TIAN, Libin SUN (Tsinghua University)** Study and Application on the Installation of Graphite Internals for High Temperature Gas-Cooled Reactors

20' William Windes (Idaho National Laboratory) The Advanced Reactor Technologies (ART) Graphite R&D Program

 $\textbf{20' Joshua Kane (Idaho National Laboratory)} \ \textit{Modelling Nuclear Graphite Oxidation Intrinsically}$ 

20' **Huaqiang Yin (Tsinghua University)** Effect of Temperature on Size Distribution of Carbonaceous Particles Formed by CVD on Inconel 617 Alloy

# Tuesday, 9 October, 16:30 - 18:00

	Track 7: Development, Design and Engineering room: LILIA Chair: Lewis Lommers, Framatome Inc., HJ. Allelein, FZJ,  20' Farshid Shahrokhi (Framatome Inc.) The Framatome SC- HTGR Heat Transport System 20' Shijiao Zhao (Tsinghua University) Preparation of Tetragonal Zirconia Microspheres as Surrogate Precursor for Uranium Nitride Microspheres 20' Hirofumi OHASHI (JAEA) Conceptual Plant System Design Study of an
	20' Shijiao Zhao (Tsinghua University) Preparation of Tetragonal Zirconia Microspheres as Surrogate Precursor for Uranium Nitride Microspheres
Track 3: Fuel and Waste - Evaluating Fission Product Release room: RÓŻA	Track 4: Materials, Components and Manufacturing - Graphite II room: PROMENADA
Chair: <u>Daniel Freis</u> , Joint Research Centre	Chair: Manuel Pouchon, PSI, William Windes (INL)
24' John Stempien (Idaho National Laboratory) Preliminary results of post-irradiation examination of the AGR-3/4 irradiation to assess fission product mobility in graphite and graphitic matrix material 24' Hongsheng Zhao (Tsinghua University) The oxidation behavior and mechanism of the micro four-layer SiC coated matrix graphite in HTR 24 Paul Humrickhouse (Idaho National Laboratory) Preliminary Estimation of Fission Product Diffusion Coefficients from AGR-3/4 Data	25' <b>Taiju Shibata (JAEA)</b> Post Irradiation Experiment about SiC-coated Oxidation-resistant Graphite for High Temperature Gas-cooled Reactor 20' <b>Tjark van Staveren (NRG)</b> Design, construction and operation of a graphite irradiation creep facility 20' <b>W. David Swank (Idaho National Laboratory)</b> High Temperature Annealing of Irradiated Nuclear Grade Graphite

#### Wednesday, 10 October, 9:00 - 11:00

**Track 8: Safety and Licensing** 

room: IRYS

Chair: Farshid Shahrokhi, Framatome Inc.

24' Haitao WANG (Tsinghua University): Current Status of the Development of Safety Requirements and Safety Guides for modular HTGRs in China

24' **SungDeok Hong (KAERI)** Experimental Apparatus to Study Plate-out Characteristic at the Flow Channel of VHTR Heat Exchanger

24' RONGHONG QU (Tsinghua University), Introduction to human factor engineering V&V Activities for advanced main control room in HTR-PM

24' **Hiroyuki SATO (Japan Atomic Energy Agency)** Research and Development Plan for Licensing of HTGR Cogeneration Systems

24' Karol Kowal (NCBJ) Application of Probabilistic Safety Assessment for nuclear-chemical installations with High Temperature Reactors: Challenges and Insights

Track 3: Fuel and Waste - Irradiation Performance and PIE room: RÓŻA

Chair: Hongsheng Zhao, Tsinghua University

24' **Malin Liu (Tsinghua University)** Burnup measurement error analysis of HTR fuel using ab-initio Monte-Carlo simulation

24' **Dong Liu (University of Oxford)** The Role of the Built-in Residual Stress and Interfacial Fracture Toughness on the Irradiation Behavior of Fuel Particles at 1000°C

24' Rong Li (Tsinghua University) The effects of manufacturing uncertainties on the stresses in the TRISO-coated fuel particle

24' Dawn Scates (Idaho National Laboratory) Fission Gas Monitoring for the AGR-5/6/7 Experiment

24' Asset Shaimerdenov (The Institute of Nuclear Physics, Kazakhstan) Investigation of irradiated propertied of extended burnup TRISO fuel Track 7: Development, Design and Engineering

room: LILIA

Chair: Lewis LOMMERS, Framatome Inc., H.-J. Allelein, FZJ

20' KOJI OKAMOTO (The University of Tokyo) Study on Pu-burner High Temperature Gas-cooled Reactor in Japan(1) Concept

20' **Minoru Goto (JAEA)** Study on Pu-burner High Temperature Gas-cooled Reactor in Japan – Design Study of Fuel and Reactor Core –

20' Jinhua WANG (Tsinghua University) Experimental study on the transport performance of damaged fuel element in HTR-PM

20' Musen Lin (Tsinghua University) Analysis of the Interactions between Spent fuel Pebble Bed and Storage Canister under Impact Loading

Track 4: Materials, Components and Manufacturing - Metals room: PROMENADA

Chair: Jana Kalivodova, CV Řež. I. Sah, KAERI

25' Ondrej Muransky (Australian Science and Technology Organization (ANSTO), New Illawarra Road, Lucas Heights, NSW, Australia) Predicting the Creep Rupture Behaviour of Alloy 617 using Advanced Damage Models

20' **Woo-Gon Kim (KAERI)** Tensile and Creep Rupture Behaviors on Thermally-Aged Alloy 617 for 1-year at 900oC

25' **Injin Sah (KAERI)** High-Temperature Mechanical Behaviors of Diffusion-Welded Alloy 617

20' Jianguang Shuai (Tsinghua University) Jiaqing Zhao (Tsinghua University) Characterization of Crack Propagation of Incoloy 800H Outlet Connection Tube Combining DIC and XFEM

20' **Yunpeng Liu (Tsinghua University)** Irradiation hardening effect of A508-3 steels studied by crystal plasticity model

#### Wednesday, 10 October, 11:30 - 13:00

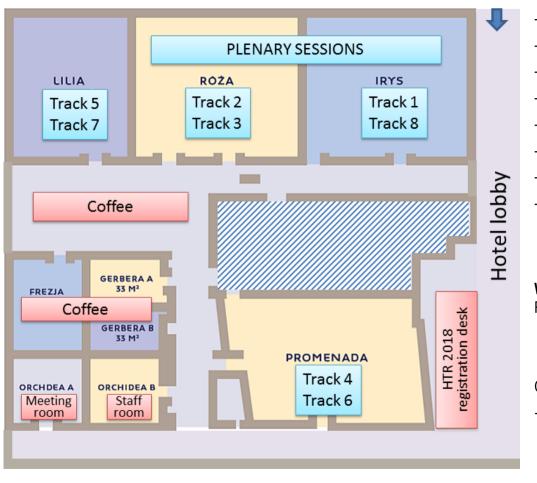
Elements Irradiated in the HFR Petten

Track 8: Safety and Licensing Track 7: Development, Design and Engineering room: IRYS room: LILIA Chair: Farshid Shahrokhi, Framatome Inc. Chair: Lewis LOMMERS, Framatome Inc., Xing L. Yan, JAEA 30' **Yvotte Brits (X-Energy)** The Advantages of Developing a Hardware 20' Xiaowei Li (Tsinghua University) Influences of Fabrication Tolerance Based Reactor Protection System for High Temperature Gas Cooled Reactors on Thermal Hydraulic Performance of HTGR Helical Tube Once Through 30' Daddy Setvawan (BAPETEN, Nuclear Energy Regulatory Agency for Steam Generator Indonesia) ATHLET Modelling of the HTR-10 Full Power Initial Core and 20' Minoru Goto (JAEA) Conceptual study of an experimental HTGR ATHLET Improvement Perspectives for the Safety Assessment of Pebble Bed upgraded from HTTR 20" Chan Soo Kim (KAERI) VHTR Thermo-Fluid Tests in KAERI Reactors 30' Feng Xie (Tsinghua University) Study on the recognition method of the 20' Topan Setiadipura (BATAN) Design Development of Reaktor Daya temperature measurement pebble in the transition core of HTR-10 Eksperimental (RDE) a high temperature reactor pilot plant for nuclear coaeneration Track 3: Fuel and Waste - Safety testing and PIE Track 4: Materials, Components and Manufacturing - Compounds room: RÓŻA room: PROMENADA Chair: Steven Knol, NRG Chair: Jana Kalivodova Řež, Manuel Pouchon, PSI 24' John Hunn (ORNL) Post-irradiation examination and safety testing of 22' Xiangang WANG (Tsinghua University) Reachability Study of US AGR-2 irradiation test compacts Inspection Probes in Helical Tubes 24' John Stempien (Idaho National Laboratory) Preliminary Preliminary 22' Qinzhao Zhang (Tsinghua University) Study on the shaft seal of results from the first round of post-irradiation heating tests of fuel compacts circulator in HTR-PM from the US AGR-3/4 irradiation 22' Yinan GENG (Tsinghua University) Application Of Similarity Law In 24' Daniel Freis (European Commission - IRC)/Bing LIU (Tsinghua Electrical Device Design In Helium For High Temperature Gas-Cooled Reactor **University)** Burn up determination and Accident Testing of HTR PM Fuel 22' Hui Yang (Sinosteel Advanced Materials (Zhejiang) Co., Ltd), The

Development of Sinosteel Nuclear Graphite for HTR

# HTR2018 side events

	Friday 5.10	Saturday 6.10	Sun 7.10	Mon 8.10	Tue 9.10	Wed 10.10	Thursday 11.10	Friday 12.10
room	GERBERA	GERBERA					IRYS	GERBERA
8:30 – 10:30	GIF VHTR CMVB Project Management Board	GIF VHTR CMVB Project Management Board					GEMINI+ Intercontinental Workshop / Scientific Advisory Group meeting	GIF VHTR System Steering Committee
10:30 - 11:00	Coffee break Coffee break						Coffee break	Coffee break
11:00 – 12:30	GIF VHTR CMVB Project Management Board	GIF VHTR CMVB Project Management Board			770	9	HTR2018 Organizing Committee meeting	GIF VHTR System Steering Committee
12:30 - 13:30	Lunch	Lunch					Lunch	Lunch
13:30 – 15:00	GIF VHTR CMVB Project Management Board	GIF VHTR CMVB Project Management Board					GEMINI+ Coordination Team Meeting / Scientific Advisory Group meeting	GIF VHTR System Steering Committee
15:00 - 15:30	Coffee break	Coffee break					Coffee break	Coffee break
15:30 – 17:00	GIF VHTR CMVB Project Management	GIF VHTR CMVB Project Management			E		GEMINI+ Coordination Team Meeting	GIF VHTR System Steering
17:00 – 18:00	Board	Board					NC2l Task Force meeting	Committee



T1: National programmes

T2: Industrial applications

T3: Fuel and waste

T4: Materials & components

T5: Reactor physics

T6: Computer codes

T7: Design & engineering

T8: Safety & licensing

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