Programme

**Monday 22 September**

17.00  Registration
18.00  Welcome cocktail (*Seoul Palace Hotel, room Royal Ballroom 1st Floor*)

**Tuesday 23 September**

8.30  Registration

**Opening Session**

9.00-9.30  Opening of the meeting (I.-S. Hwang, SNU, ROK)
           Welcome address (H.-P. Kim, member of National Assembly)
           Welcome address (J. Gulliford, Head of Nuclear Science Division, OECD/NEA)

9.30-9.55  Partitioning and Transmutation for a sustainable nuclear energy
           D. Warin, CEA, France

**Session 1: International and National Programmes (Chair: I.-S. Hwang)**

9.55-10.20  OECD/NEA Activities related to P&T
             J. Gulliford, OECD/NEA

10.20-10.45  P&T: IAEA Activities
              U. Basak and S. Monti, IAEA

10.45-11.15  Coffee

**Session 2: Fuel Cycle Strategies and transition scenarios (Chair: H. Oigawa & J. Law)**

11.15-11.40  The Effects of the Uncertainty of Input Parameters on Nuclear Fuel Cycle Scenario Studies
              F. Alvarez-Velarde, NEA/EGAFCS

11.40-12.05  Comparison of the overall environmental footprint between current and future nuclear fuel
              S. Bourg, CEA, France

12.05-12.30  Mass Flow Data Comparison for Comprehensive Fuel Cycle options
              T. Kim, ANL, US

12.30-12.55  The German P&T study-results and conclusion in the view of the contributing Helmholtz Research Centre
              B. Merk, Helmholtz-Zentrum Dresden-Rossendorf, Germany

13.00-14.30  Lunch

**Session 3: Transmutation Systems and Infrastructures (Chairs: T. Taiwo & P. Paviet)**

14.30-14.55  Invited talk
              Contribution of the European Commission to a European Strategy for HLW Management through Partitioning & Transmutation
              H. Ait Aberrahim, SCCK-CEN, Belgium

14.55-15.20  Impact of Transmutation Scenarios on Fuel Transportation
              A. Saturnin, CEA, France
Nuclear Fuel Cycle Evaluation and screening findings on Partitioning and Transmutation  
T. Taiwo, ANL, USA

Coffee

J-PARC Transmutation Experimental Facility Program  
T. Sasa, JAEA, Japan

Mars-Story on Molten Salt Actinide Recycler &Transmuter Development by Rosatom in Co-operation with Euratom  
V. Ignatiev, NRC-Kurchatov Institute, Fed. Russia

Innovative TRU burners and Fuel Cycles options for Phase-out and Regional Scenarios  
B. Vezzoni, KIT, Germany

Commissioning and initial operation of Lead Bismuth Eutectic (LBE) chemical process control loop: Mexico  
J. Lim, SCK-CEN, Belgium

Session 4: Waste management for P&T scenarios (Chair: Z. Hodgson)

(Th,Pu)O₂ stability under repository conditions  
J. Cobos-Sabate, CIEMAT, Spain

Human intrusion impact of P&T wastes  
H. Joo, SNU-NUTRECK, ROK

Dinner (Seoul Palace Hotel, Dynasty A B1 Floor)

Wednesday 24 September

Session 1: International and National Programmes (Chair: H-S. Lee)

P&T in ROK  
J-H. Lee, KHNP-CRI, ROK

An overview of actinide partitioning research in the United States fuel cycle research and development  
P. Paviet, DOE, USA

P&T in PR China  
Y. Guoan, CIA, China

Coffee

Status of nuclear research and development and progress on advanced recycle technologies in the UK  
Z. Hodgson, NNL

Plutonium and Minor Actinides management in France: future possible scenarios  
D. Warin, CEA

Session 5: Advanced Nuclear Fuel Recycling (Chairs: D. Warin & V. Ignatiev)

International assessment of separation processes related to current and future nuclear fuel cycles  
S. Cornet, OECD/NEA/EGFRC

Aqueous processes

EXAM selective Am recovery process: near past results and near future LLS experiments  
J-Ph. Dancausse, CEA, France
Separation of minor actinides by a single cycle approach using unsymmetrical diglycolamide and diglycolamic acid
R. Kumaresan, Indira Gandhi Centre for Atomic Research, India

Lunch

Microemulsions and aggregation formation in extraction processes for used nuclear fuel
M. Nilsson, Univ. California, Irvine, USA

Development and demonstration of innovative partitioning processes (i-SANEX and 1-cycle SANEX) for actinide partitioning
A. Wilden, IEK-6, Germany

Development of separation process for minor actinides using TDdDGA and new extractants
T. Matsamura, JAEA, Japan

Coffee

Session 5b  Pyroprocessing

Assessment of the pyrochemical DOS process for the recovery of actinides from irradiated oxide fuels
E. Mendes, CEA, France

Quantitative analysis of KF-LiF-ZrF₄ molten salt by probe assisted in situ LIBS systems
S-H. Kim, Chungnam National University, ROK

Model development for Pu-mass accountancy of pyrometallurgical processing with the Pu/Cm-244 ratio method
S-M. Woo, Univ. California, Berkeley, USA

Salt separation from uranium deposits by multilayer porous crucible
J-H. Jang, KAERI, ROK

Poster Session (Chair: M-H. Kim)

18.00-19.30  Poster Session (Dynasty A Hall, B1 Floor)

Thursday 25 September

Session 1: International and National Programmes (Chair: IS Hwang)

R&D on HLW in Russia
A. Khaperskaya, Rosatom, Russian Fed.

Review of ADS and P&T programmes in Japan
H. Oigawa, JAEA, Japan

Session 6: Transmutation fuels and targets (Chair: N. Chauvin & J.R. Kennedy)

R&D on Transmutation at CEA: recent outstanding developments
V. Royet, CEA, France

Thermal and Mechanical Properties of UO₂ and PuO₂
M. Kato, JAEA, Japan

Coffee

Dustless process for minor actinide-bearing blanket fabrication
M. Caisso, CEA, France

Progress on the application of metallic fuels for actinide transmutation
J.R. Kennedy, INL, USA
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<td>12.00-13.30</td>
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| 13.30-13.55 | Evaluation of minor actinide transmutation performance in fast reactor metal fuels irradiated up to low and middle burnups  
H. Ohta, CRIEPI, Japan |
| 13.55-14.20 | Progress status of the sodium fast reactor advanced fuel project within the generation IV International Forum  
F. Delage, GIF |
| 14.20-15.10 | Coffee                                    |
| **Summary Session**                          |
| 15.10-16.00 | Session Chair Summaries                   |
| 16.00-16.45 | General Discussion                         |