



### SESSION 3: Transmutation systems and infrastructures

Chair: T. Taiwo & N. Stauff

14:50	15:15	<b>Program Overview on Development of Innovative TRU Burning Fast Reactor Cycle with Uranium-free Fuel</b> K. Arie (Toshiba Corporation, Japan)
15:15	15:40	<b>R&amp;D on Heavy Liquid Metal Technology in Support of MYRRHA: State-of-the-art</b> A. Aerts (SCK-CEN, Belgium)
15:40	16:05	<b>Proposal for a First ADS of Significant Power (&gt; 1MW) at the Institute for Nuclear Research of the Russian Academy of Sciences</b> S. Sidorkin (INR RAS, Russia)
16:05	16:30	<b>MATADOR : an innovative sub-assembly design for Heterogeneous Minor Actinides Transmutation</b> L. Buiron (CEA, France)
16:30	16:55	<b>Transmutation Scoping Studies for a Chloride Molten Salt Reactor</b> F. Heidet/B. Feng (ANL, USA)
16:55	17:20	<b>Investigation of Beam Window Structure for Accelerator Driven System with Subcriticality Adjustment</b> T. Sugawara (JAEA, Japan)
17:20	17:45	<b>Am-Bearing Blanket Transmutation Strategies in Sodium-cooled Fast Reactors</b> N. Stauff (ANL, USA)
17:45	18:15	<b>Presentations of posters for session 3</b> 3 mins*9 posters
19:15		<b>Conference Dinner</b>

Wednesday 19 October 2016

### Session 1: International and national Programmes

Chair:Y-J. Choi

08:30	08:45	<b>France</b> E. Touron, CEA
08:45	09:00	<b>Development of safe and responsible concepts for advanced nuclear fuel cycles in the EU</b> JP. Glatz, JRC-ITU
09:00	09:15	<b>Review of Research Activities on P&amp;T in Japan</b> K. Tsujimoto, JAEA

### Session 4: Transmutation fuels and targets

Chair : N. Chauvin & L. Ramond (TBC)

09:15	09:40	<b>Advances in Metallic Fuels for High Burnup and Actinide Transmutation</b> S. Hayes (INL, USA)
09:40	10:05	<b>State of the art report on innovative Fuels</b> N. Chauvin (EGIF, NEA)
10:05	10:35	<i>COFFEE</i>
10:35	11:00	<b>Microstructural characterization of metallic transmutation fuels</b> A. Aitkaliyeva (INL, USA)
11:00	11:25	<b>Overview of PIE results on Minor Actinide bearing fuels in FUTURIX-FTA international collaboration</b> D. Freis (EU)

11:25	11:50	<b>Preliminary Post irradiation Examination Comparison between AFC-1 and FUTURIX-FTA</b> L. Capriotti on behalf of J. Harp (INL, USA)
11:50	12:15	<b>Post-irradiation Examination of Fast Reactor Metal Fuel for Minor Actinide Transmutation</b> H. Ohta (CRIEPI, Japan)
12:15	13:30	<i>LUNCH</i>

#### Session 4: Transmutation fuels and targets

13:30	13:55	<b>Fabrication of (U,Ce)O<sub>2</sub> and (U,Am)O<sub>2</sub> pellets with controlled porosity from oxides microspheres</b> L. Ramond (CEA, France)
13:55	14:55	Presentations of posters for session 4&6 3 mins*(7+13) posters
14:55	15:25	<i>COFFEE</i>

#### Session 5: Waste management for P&T

Chair : T. Matsumura & TBD

15:25	15:50	<b>P&amp;T and the Prevention of Underground Criticality</b> A. Salazar (Uni. California Berkeley, USA)
15:50	16:15	<b>An Innovative Way of Thinking P&amp;T – Neutron Physics of a Reactor Directly Operating on SNF</b> B. Merk (Uni. Liverpool, UK)
16:15	16:40	<b>Some Implications of Recycling CANDU Used Fuel in Fast Reactors</b> M. Gobien (Nuclear Waste Management Organisation, Canada)
16:40	17:40	Presentations of posters for session 5&6 3 mins*(6+14) posters
17:40	19:40	<b>Poster session</b> Chair: TBD

Thursday, 20 October 2016

#### Session 1 : International and national programmes

Chair: I-S. Hwang

08:30	08:45	<b>Fuel cycle activities in Belgium. MYRRHA project status and new implementation plan</b> H. Ait Abderrahim, SCK-CEN
08:45	09:00	<b>Development Activities for Recycling Spent Nuclear Fuel in Korea</b> JH. Baek, KAERI
09:00	09:15	<b>Russia</b> TBD
09:15	09:30	<b>China</b> TBD
09:30	10:00	<i>COFFEE</i>

### Session 6: Advanced Nuclear Fuel Recycling

TBD

10:00	10:25	<b>Sigma Team for Advanced Actinide Recycle: Highlights and Directions</b> B. Moyer (ORNL, USA)
10:25	10:50	<b>The EXAm process: towards the reprocessing of a concentrated PUREX raffinate</b> M-C. Charbonnel (CEA, France)
10:50	11:15	<b>Technology Readiness Levels (TRL) Assessment of Separation processes for current and advanced fuel cycles</b> E. Collins (EGFRC, NEA)
11:15	11:40	<b>Actinide separation process development at the UK National Nuclear Laboratory</b> R. Taylor (NNL, UK)
11:40	12:05	<b>Recent progress on R&amp;D of separation process for minor actinides using new extractants</b> T. Matsumura (JAEA, Japan)
12:05	12:30	<b>SACSESS: three years of optimization of safe actinide separation processes</b> S. Bourg (CEA, France)
12:30	14:00	<i>LUNCH</i>

### Session 6: Advanced Nuclear Fuel Recycling

TBD

14:00	14:25	<b>Status of R&amp;D on Pyrochemical Processes for Spent Nuclear Fuel Treatment in Europe</b> P. Soucek (JRC, EU)
14:25	14:50	<b>Engineering and Materials Considerations of an Industrialised LKE Molten Salt System</b> D. Graham (NNL, USA)
14:50	15:15	<b>Key Experimental Results of the PYROSMANI Project</b> M. Kormilitsyn (Kurchatov Institute, Russia)
15:15	15:40	<b>Recent activities on pyroprocessing of spent nuclear fuel in CRIEPI</b> T. Murakami (CRIEPI, Japan)
15:40	16:10	<i>COFFEE</i>
16:10	16:40	<i>Summary Session</i>
16:40	17:10	<i>Discussion and closing</i>