

Session Program

19-22 Apr 2022

**International Conference on Fast Reactors and Related
Fuel Cycles FR22: Sustainable Clean Energy for the Future
(CN-291)**

4.2 Structural, Novel, and Large Components Materials

Vienna, Austria

Wednesday 20 April

10:40

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Session | Location: Vienna, Austria

10:40–10:52

Creep and Creep-Fatigue Behavior of an Advanced Stainless Steel (Alloy 709) - Application to Sodium-Cooled Fast Reactors

Speaker

Dr Abdullah Alomari

10:52–11:04

Development of Plasma Nitriding as alternate hardfacing technique for Large components of FBR and Assessment of static In-Sodium Stability of Plasma Nitrided Layer

Speaker

Dr R. Mythili

11:04–11:16

A novel method of manufacturing a heavy integrated support ring in fast reactor

Speakers

Prof. Sun Mingyue, Dr Xu Bin, Dr Xie Bijun, Prof. Li Dianzhong

11:16–11:28

Material Data Acquisition Activities to Develop the Material Strength Standard for Sodium-cooled Fast Reactors

Speaker

Kodai Toyota

11:28–11:40

The δ -ferrite transformation behavior and mechanical properties of 316H weld metal during high temperature service

Speaker

Shitong Wei

11:40–11:52

STATE OF DEVELOPMENT OF LEAD COOLANT TECHNOLOGY COMPONENTS FOR BREST-OD-300 REACTOR

Speaker

Alexander Orlov

11:52–12:04

Tensile testing of sub-sized T91 and 316L steel specimens in liquid lead

Speaker

Kamil Tucek

12:04–12:16

New ASTRID SFR - Intermediate Heat Exchanger (IHx) and internal vessel interface system: qualification tests onto a scale 1 representative mock-up

Speakers

Mr Antony WOAYE HUNE , Mr Alejandro MOURGUES, Mr Remi MORITZ, Mr Alexandre Villedieu, Mrs Marie-Sophie Cheneau

12:40