

Session Program

11-15 Sept 2017



20th International Forgemasters Meeting - IFM 2017

Advanced and new forging materials

Congress Graz, Austria
Albrechtgasse 1 8010 Graz Austria

Monday 11 September

14:00

Advanced and new forging materials

Session | **Location:** Congress Graz, Austria, Room A, Albrechtgasse 1 8010 Graz Austria

14:00–14:20

Development of NiCrMoV Steel with Lower Nickel for Generator Rotor Forgings

Speaker

Mr Keita Kawano

14:20–14:40

Trial production of large sized gas turbine disk of Ni based superalloy FX550

Speaker

Dr Naoya Sato

14:40–15:00

Development of high creep resistant MARBN steels for forged components in high efficient power plants

Speaker

Mr Ernst Plesiutchnig

15:00–15:20

Development of 617 alloy rotor forging for 700°C advanced USC powder plant

Speaker

Mrs Yihong Nie

15:20–15:40

EVALUATION OF MAXIMUM THICKNESS FOR FORGED SUPER DUPLEX STAINLESS STEEL PRODUCTS BY USING FEM ANALYSIS

Speaker

Mr Junichi Hirabayashi

15:40

16:10

Advanced and new forging materials

Session | **Location:** Congress Graz, Austria, Room A, Albrechtgasse 1 8010 Graz Austria

16:10–16:30

Development of material manufacturing technology and welding rods for spent nuclear fuel shipping cask

Speaker

Mr Kuk-Cheol Kim

16:30–16:50

Development of 2%CrMoV Steel Rotor Forging for Geothermal Power Generation

Speaker

Mr Michiru Nakano

16:50–17:10

Study about re-crystallization behavior of new Ni-base super-alloy under sub-solvus forging process

Speaker

Mr Takashi Nishimoto

17:10-17:30

Development of a low thermal expansion superalloy for large forgings

Speaker

Dr TOSHIHIRO UEHARA

17:30-17:50

Development and Manufacturing of Wrought Co-Ni-Al-W-Cr Alloy “COWALOY” with High Temperature Strength and High Hot Workability.

Speaker

Mr Yoshihiko Koyanagi

17:50

Tuesday 12 September

09:00

Advanced and new forging materials

Session | **Location:** Congress Graz, Austria, Room B, Albrechtgasse 1 8010 Graz Austria

09:00–09:20

Production and Evaluation of 10-ton Class A-USC Turbine Rotor of Ni-Base Superalloy LTES700R

Speaker

Mr RYOJI TANAKA

09:20–09:40

New Material and Manufacturing Developments for USC Steam Turbine Rotor Forgings

Speaker

Mr Bernhard Donth

09:40–10:00

Application of Processing Map to Hot Forging in Duplex Stainless Steel

Speaker

Dr Jaeyeol Jeon

10:00–10:20

STUDY TO UNDERSTAND REVERSIBLE TEMPER EMBRITTLEMENT OF HIGH STRENGTH STEEL

Speaker

Prof. HORST CERJAK

10:20

10:50

Advanced and new forging materials

Session | **Location:** Congress Graz, Austria, Room B, Albrechtgasse 1 8010 Graz Austria

10:50–11:10

The Effect of Forging Temperature on the Mechanical Properties of AISI 4130 Engineering Steel

Speaker

Mr Gustavo Acarine Ferraz de Campos

11:10–11:30

Ultrasonic attenuation in a medium carbon forged component as a function of microstructure

Speaker

Dr Sabrina Mengaroni

11:30–11:50

Effects of solid-liquid fraction on microstructure and mechanical properties of SKD 61 under ultra-high temperature forging

Speaker

Mr Yifeng Guo

11:50