

Session Program

11-15 Sept 2017



20th International Forgemasters Meeting - IFM 2017

Numerical analysis and simulation

Congress Graz, Austria
Albrechtgasse 1 8010 Graz Austria

Tuesday 12 September

14:00

Numerical analysis and simulation

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

14:00–14:20

IMPROVEMENT OF FATIGUE PERFORMANCES ON WELDED STRUCTURAL FRAMES OF FORGING PRESS

Speakers

Mr DAVIDE PROSERPIO, Mr LUCA AMBROSONI, Mr ROBERTO BONORA

14:20–14:40

DEVELOPMENT OF A HIGH FIDELITY COMPUTER MODEL OF QUENCHING OF LARGE NUCLEAR FORGINGS

Speaker

Mr Michael Howson

14:40–15:00

Full scale 3D simulation of the electroslag rapid remelting (ESRR) process

Speaker

Prof. Menghuai Wu

15:00–15:20

Virtual Hedging of Added Value for incremental formed parts

Speaker

Dr Ingo Neubauer

15:20

15:50

Numerical analysis and simulation

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

15:50–16:10

MODELLING OF HYDROGEN REMOVAL FROM MOLTEN STEEL IN A VACUUM ARC DEGASSER

Speaker

Mr Faris Karouni

16:10–16:30

Modelling of microstructure and damage in ring rolling

Speaker

Mr Gideon Schwich

16:30–16:50

Microstructure Prediction of Nuclear Grade 316LN Austenitic Stainless Steel

Speaker

Dr Jingdan Li

16:50–17:10

Forged ingot casting process simulation with a powerful 3D thermo-mechanical fluid/structure numerical model

17:10

Speaker

Dr Victor Roulet

Wednesday 13 September

09:00

Numerical analysis and simulation

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

09:00–09:20

Integrated Forging and Life-time Computational Simulation for Aerospace Parts - Developed for International Sourcing of Various Manufacturing Bases

Speakers

Georg Haberz, Stefan Trabesinger

09:20–09:40

Study of thick 1 1/4Cr- 1/2 Mo Steel Forgings for Heavy Wall Pressure Vessel applications using Design of Experiments

Speakers

Mr Amol Dange, Mr Anirudh Shastry, Mr Neeraj Borwankar

09:40–10:00

Increasing of steel making capacity and solidification simulation with upsizing of the steel ingot

Speaker

Dr Tsuyoshi Ikeno

10:00–10:20

Industrial implementation of ring and wheel rolling simulation

Speaker

Dr Sergey Stebunov

10:20

10:50

Numerical analysis and simulation

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

10:50–11:10

STUDY ON EVALUATION FACTORS FOR VOID CLOSURE IN MULTIPASS FORGING

Speaker

Mr Kengo Mouri

11:10