



TUESDAY, SEPTEMBER 29th

PROGRAM | DAY 1

TRANSVALOR INTERNATIONAL SIMULATION DAYS

8:30AM
8:55AM
9:00AM
9:20AM
9:40AM
10:20AM
10:50AM

11:15AM
11:40AM
12:05PM

12:30PM
1:50PM
2:30PM

2:55PM

3:20PM

3:45PM
4:15PM

4:40PM

5:05PM

AMPHITHEATER

Welcome Coffee, Posters and Exhibition time - EXHIBITOR HALL

Introduction of the event

Nicolas MORISE, Transvalor

Business & Strategy Overview

Nicolas MORISE, Marc BUSSON & Etienne PERCHAT, Transvalor

Delivering innovation efficiently : a peek into Transvalor's future

Andres RODRIGUEZ-VILLA, Transvalor

Transvalor Roadmap: navigating every stage from liquid material to finished product and its life cycle

Max BINAGOT, François FRASCATI & Nikolay OSIPOV, Transvalor

Coffee Break, Posters and Exhibition time - EXHIBITOR HALL

**AI AND DIGITAL SIMULATION:
A STRATEGIC ASSET TO TACKLE INDUSTRIAL CHALLENGES**

Towards a new generation of models for Zr-alloys hot forming processes, getting the best out of FORGE[®], python API, TSV PyLab, large industrial databases and artificial intelligence

Alexis GAILLAC, Framatome

Towards integration of data-driven and physics embedded surrogates for metal forming simulations

Jose ALVES, Transvalor

ForgeIA: integrating forging simulation with AI

David RYCKELYNCK, CEMEF, Mines Paris - PSL

Physical and Machine Learning Modelling of 7XXX Aluminium Alloys Using High Throughput Data for In-Service Performance Prediction

Angela HAYKAL & Julien BARLIER, Transvalor

Lunch break - DINING ROOM

Open Discussions with keynote - AMPHITHEATER

Pitch session

STREAMLINING SIMULATIONS WORKFLOWS

Coming soon

Realistic forging simulations from raw machine data : MPFX module

Arjun Kalkur MATPADl, Aubert & Duval

Coffee Break, Posters and Exhibition time - EXHIBITOR HALL

A Digital Eco-system for Open-Die Forging of High-integrity Components

Salaheddin RAHIMI, University of Strathclyde

Enhanced automation and customization of calculation coupling Forge NxT API with pSeven Enterprise

Nina MOËLLO, pSeven & Laurence GASTON, Transvalor

Optionnal Social Activities (available by reservation)

ELLA FIDZGERALD ROOM

STEELMAKING AND CASTING

INTERPIPE: Continuous casting process optimization using THERCAST[®]

Oleksandr SHVETS, INTERPIPE

Case Studies of Continuous Casting Analysis using THERCAST[®] at Nippon Steel

Norimasa YAMASAKI, Nippon Steel

Coming soon

Influence of mold geometry and dimensions on the development of compositional heterogeneities in high-strength steels

Mohammad JAHAZI, École de technologie supérieure de Montréal

Pitch session

PRODUCT AND PROCESS DESIGN

Simulation of Orbital Forming Process for Wheel Bearings with FORGE[®]

Antoine PIGNOL, NTN Europe

Challenges in simulating burr-free cold forming processes

Timo KELLER, KLS Martin SE & Co. KG

Numerical study of the filling and solidification of molds in VIM(Vaccum induction melting) and PAMCHR (Plasma arc melting with cold hearth refining) processes

Uidad AYADH, IRT M2P

Coming soon

Please note that the program is preliminary and may be revised.



WISH TO EXTEND DISCUSSIONS?

Book your speedmeeting with a Transvalor expert today

TRANSVALOR

WEDNESDAY, SEPTEMBER 30th

PROGRAM | DAY 2

TRANSVALOR INTERNATIONAL SIMULATION DAYS

8:30AM

9:00AM

9:05AM

9:35AM

10:05AM

10:30AM

11:00AM

11:25AM

11:50AM

12:15PM

12:40PM

2:00PM

2:45PM

3:05PM

3:30PM

3:55PM

4:25PM

4:50PM

5:15PM

5:40PM

7:00PM

AMPHITHEATER

Welcome Coffee, Posters and Exhibition time - EXHIBITOR HALL

Introduction

Laëtitia PEGIE, Transvalor

Keynote

Vikas SARAF, ATI Forged Product

Keynote

Elie HACHEM, CEMEF

Industrialization of SAFRAN/CEMEF developments for solidification defects simulation

Aboubakry AGNE & Ngadia Taha NIANE, SAFRAN TECH

Coffee Break, Posters and Exhibition time - EXHIBITOR HALL

NUMERICAL MODELING : NEXT EVOLUTIONS

Unravelling FORGE® NxT 5.0

Max BINAGOT, Transvalor

Exploring THERCAST® NxT 3.2

François FRASCATI, Transvalor

DATA void project on porosity closure

Daniel PINO MUNOZ & Laurent LANGLOIS, CEMEF/ENSAM Metz

Robust and Feature-aware Arbitrary Lagrangian - Eulerian Method for Material Forming Applications

Jesus Oswaldo GARCIA, Transvalor

*Lunch break - DINING ROOM**Open Discussions with keynote - AMPHITHEATER*

Pitch session

PROCESS AND SIMULATION ASSESSMENT

Experimental Characterisation of Service-Degraded H13 Tool Steel and Numerical Assessment of Die Plasticity Risk in Hot Forging of Nickel-based Superalloys

Julen AGIRRE, Mondragon Unibertsitatea

Underskin Overview:

Subsurface Fold Detection in Simulation

Satyajee KULKARNI, Transvalor

Coffee Break, Posters and Exhibition time - EXHIBITOR HALL

Bridging Experiment and Simulation in Casting: Validation Methodologies Across Casting Processes and Recent Advances in Lost Foam Modeling

Julien ARTOZOUL, Arts et Métiers

Several academic case studies of THERCAST®

Fabien LANICOT, Lycée H. Guimard - Lyon

COMING SOON

Turbulent filling and rapid solidification in high pressure vacuum die casting multi-scale characterization and modelling

Raneen ABD ALI - Quebec University - Chicoutimi

Shape Comparison Tool: Alignment of CAD Models with Tomographic Scans for Numerical Simulation and Experimental Validation

Krushna SHINDE, Transvalor

Gala Dinner - LA SIESTA, ANTIBES

ELLA FIDZGERALD ROOM

MATERIALS AND STRUCTURES

Flexural strength of reinforced V shaped oxide/oxide composite specimens

François GUILLET, Commissariat à l'Energie Atomique

Expert system for the calibration of material constitutive models

Stéphane QUILICI, Transvalor

Resolving Cyclic Plasticity in Thermo-Mechanical FEM of Marine Engines with Microstructure-Aware Z-mat Material Models

Rafael Arturo RUBIO RUIZ, Wärtsilä

Modeling architected materials with Z-set

Justin DIRRENBARGER, Conservatoire National des Arts et Métiers

Pitch session

THERMAL PROCESSES AND SIMULATION ASSESSMENT

Importance of radiative heat transfer in industrial furnaces: Insights from numerical simulation of single and multi-part heating

Marc MORENO, Transvalor

Breakthrough in quenching modelling: unlocking a new level of predictive performance through qobeo-FORGE coupling, enabling superior accuracy and robustness

David EVEN - FORVIA Faurecia Seating

Numerical modeling of multifrequency induction hardening process

Baraa QADDAH, IRT M2P

Simulation of Quenching and Tempering Process on 1060 Steel Using Aqueous Polyalkylene Glycol (PAG) Polymer

Sergio GALLEGOS CANTU, Quaker Houghton

ROLLING PROCESSES

Real-Time Temperature Distribution in Rollers During Hot Rolling

Helin SASAN, Peaslee Steel Manufacturing Research Center / Missouri S&T

Hot Rolling Behavior of an Equiatomic NiTiZr Alloy: Experimental and Numerical Investigation

Alejandro PADILLA GONZALEZ, University Of North Texas

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THURSDAY, OCTOBER 1st

PROGRAM | DAY 3

TRANSVALOR INTERNATIONAL SIMULATION DAYS

8:30AM

AMPHITHEATER

ELLA FIDZGERALD ROOM

8:55AM

Welcome Coffee, Posters and Exhibition time - EXHIBITOR HALL

9:00AM

Introduction
Laëtitia PEGIE, Transvalor

9:30AM

Simulation of static and dynamic strain ageing effects in industrial alloys and structures
Samuel FOREST, Centre des Matériaux Mines Paris PSL CNRS

10:00AM

Leveraging Machine Learning in Computational Materials Science to Accelerate High-Fidelity Metal Forming Simulations involving Microstructure Prediction
Marc BERNACKI, Mines Paris PSL

10:25AM

Keynote
Coming soon

10:55AM

Coffee Break, Posters and Exhibition time - EXHIBITOR HALL

MICROSTRUCTURE MODELLING

WELDING MODELLING

11:20AM

DIGIMU® NxT 1.0 beta : A revolution in Grain Size Prediction Simulations
Pascal DE MICHELI, Transvalor

Ultrasound Inspection of welds using weld microstructure data
Andreas SCHUMM, EDF

11:45AM

DIGIMU® Study in the Industrial Context of INC718 Subsolvus Processes at OTTO FUCHS KG
Michele MATSUO, Otto Fuchs KG

Toward a modeling approach of dissymmetric linear friction welding
Mathieu TOUBOUL, SAFRAN AIRCRAFT ENGINES

12:10PM

Understanding material behavior in hot metal forming under transient conditions through microstructure modeling using DIGIMU®
Nadine ELEKYABI, Institute of Metal Forming (IBF) RWTH Aachen University

Finite Element Simulation of multi-material joining processes with FORGE® 4.1
Romeu GOMES, IRT M2P

12:35PM

Experimental Study and Numerical Simulation of Continuous Dynamic Recrystallization Using DIGIMU®: Application to 2xxx Aluminium Alloys
Lahcen ABARAY, CEMEF, Mines Paris - PSL University

Resistance and Electrically Assisted Welding Processes - Benefits of Numerical Simulation
Stéphane MARIE, Transvalor

1:55PM

Lunch break - DINING ROOM

Pitch session

Pitch session

2:15PM

MATERIALS & PROCESSES

MATERIAL FATIGUE, DURABILITY AND SAFETY

2:40PM

Coming soon

Coming soon

3:05PM

Validation of an Optimal Prediction Method for Chip Morphology and Cutting Temperature in Machining
Shusuke NAITO, TOYOTA Motor Corporation

Three-Dimensional Crack Propagation Analysis of Surface-Hardened Gears under Contact and Centrifugal Loading: Numerical Predictions and Experimental Correlations
Regis KENKO, Safran Transmission Systems

3:30PM

Development and Validation of a 2D Finite Element Model for Flow Forming Process Optimization of Thin-Walled Components
Aitor NAVARRO, Tubacex Innovation

Towards Efficient 3D Crack Growth Simulations
Florian MERAY, Safran Aircraft Engines

3:55PM

Coming soon

Coming soon

4:15PM

Coffee Break, Posters and Exhibition time - EXHIBITOR HALL

Best presentation Award & Closing remarks
Nicolas MORISE, Transvalor

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