



TUESDAY, SEPTEMBER 29th

PROGRAM | DAY 1

TRANSVALOR INTERNATIONAL SIMULATION DAYS

AMPHITHEATER

ELLA FIDZGERALD ROOM

8:30AM

8:55AM

9:05AM

9:25AM

9:45AM

10:25AM

10:50AM

11:15AM

11:40AM

12:05PM

12:30PM

1:50PM

2:35PM

2:55PM

3:20PM

3:45PM

4:10PM

4:35PM

5:00PM

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

An inside look at Transvalor's Products Roadmap

Max BINAGOT, François FRASCATI & Nikolay OSIPOV, Transvalor

Coffee Break, Posters and Exhibition time - EXHIBITOR HALL

AI AND DIGITAL SIMULATION

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

AI and Deep learning presentation

Jose ALVES, Transvalor

ForgelA: integrating forging simulation with AI

David RYCKELYNCK, CEMEF, Mines Paris - PSL

Technical presentation on Digital forging processes

Coming soon

Lunch break - DINING ROOM

Open Discussions with keynote - AMPHITHEATER

RELIABILITY OF SIMULATION DATA & QUALITY MANAGEMENT

Pitch session

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

Mohammad JAHAZI, École de technologie supérieure de Montréal

Numerical study of the filling and solidification of molds in VIM (Vacuum Induction Melting) and PAMCHR (Plasma Arc Melting with Cold Hearth Refining) processes

Widad AYADH, IRT M2P

Coffee Break, Posters and Exhibition time - EXHIBITOR HALL

RELIABILITY OF SIMULATION DATA & QUALITY MANAGEMENT

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

Optional Social Activities (available by reservation)

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

Coming soon

PRODUCT AND PROCESS DESIGN

Pitch session

Challenges in simulating burr-free cold forming processes

Timo KELLER, KLS Martin SE & Co. KG

Residual Stress Depth Profile from Outside Turning of Titanium

Gary STYGER, University of Johannesburg

PRODUCT AND PROCESS DESIGN

Validation and optimization of the Flowforming manufacturing process using a 2D model

Aitor NAVARRO, Tubacex Innovation

Coupling Experimental Data and Numerical Models in casting : specific application in Lost Foam Casting

Julien ARTOZOUL, Arts et Métiers

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



WISH TO EXTEND DISCUSSIONS?

Book your speedmeeting with a Transvalor expert today





PROGRAM | DAY 2

TRANSVALOR INTERNATIONAL SIMULATION DAYS

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- 3:30PM
- 4:10PM
- 4:40PM
- 5:05PM
- 5:30PM
- 7:00PM

Welcome Coffee, Posters and Exhibition time - EXHIBITOR HALL

Introduction
Laëtitia PEGIE, Transvalor

Keynote
Vikas SARAF, ATI Forged Product

Keynote
Elie HACHEM, CEMEF

Industrialization of the CAFE Method for predicting stray grains during Solidification
Agnè ABOUBAKRI & 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 & porosities
Daniel PINO MUNOZ & Laurent LANGLOIS, CEMEF

Robust and Feature-aware Arbitrary Lagrangian-Eulerian Method for Material Forming Applications
Jesus Oswaldo GARCIA, Transvalor

MATERIALS AND STRUCTURES

Flexural strength of reinforced V shaped oxide/oxide composite specimens
François GUILLET, Commissariat à l'Energie Atomique

Expert System : the future of material fitting
Stéphane QUILLICI, 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

Lunch break - DINING ROOM

Open Discussions with keynote - AMPHITHEATER

MATERIALS AND PROCESSES

Pitch session
Technical presentation on Ring Rolling
Coming soon

Underskin Overview: Subsurface Fold Detection
Satyajee KULKARNI, Transvalor

HEATING & THERMAL MODELING

Pitch session
Technical presentation on furnace heating
Marc MORENO, Transvalor

FORGE® Technical presentation
Coming soon

Coffee Break, Posters and Exhibition time - EXHIBITOR HALL

Technical presentation on HPDC
Coming soon

Coming soon

Numerical modeling of multifrequency induction hardening process
Baraa QADDAH, IRT M2P

Physical and Machine Learning Modelling of 7XXX Aluminium Alloys Using High Throughput Data for In-Service Performance Prediction
Angela HAYKAL & Julien BARLIER, Transvalor

Pitch session

Pitch session

Gala Dinner - LA SIESTA, ANTIBES

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THURSDAY, OCTOBER 1st

PROGRAM | DAY 3

TRANSVALOR INTERNATIONAL SIMULATION DAYS

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Welcome Coffee, Posters and Exhibition time - EXHIBITOR HALL

Introduction
Transvalor

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

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

MICROSTRUCTURE MODELLING

DIGIMU® NxT : towards extremely fast high fidelity grain size prediction at the polycrystal level
Pascal DE MICHELI, Transvalor

Coffee Break, Posters and Exhibition time - EXHIBITOR HALL

Coming soon

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

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

Simulation of Continuous Dynamic Recrystallization and Experimental Validation in an Aluminium Alloy
Lahcen ABARAY, CEMEF, Mines Paris - PSL University

Lunch break - DINING ROOM

MATERIAL FATIGUE, DURABILITY AND SAFETY

Application of Zcracks to Airbus aerostructures - Optimization of fatigue test monitoring & prediction of a propagation path in a complex assembly
Jérôme ROUSSET & Teddy GOUT, Airbus Operations SAS

Comparison of Experimental and Simulated Crack Paths on Helicopter Engine Gears
Coming soon

3D Crack Propagation simulation of Single Tooth Bending Tests using Z-cracks: Application to Nitrided Gears
Regis KENKO, Safran Transmission Systems

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

Coffee Break, Posters and Exhibition time - EXHIBITOR HALL

Best presentation Award & Closing remarks
Nicolas MORISE, Transvalor

WELDING MODELLING

Structure informed ultrasound imaging of welds
Andreas SCHUMM, EDF

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

Linear friction welding simulation
Mathieu TOUBOUL, SAFRAN AIRCRAFT ENGINES

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

Welding Technical presentation
Jacques BESSON, Centre des Matériaux CNRS UMR 7633

COMING SOON

Investigation of an optimal prediction method for chip formation and cutting temperature in machining
Shusuke NAITO, TOYOTA Motor Corporation

In-Situ Temperature Distribution Monitoring of Hot Mill Rolls Using Fiber-Optic Sensors
Helin SASAN, Peaslee Steel Manufacturing Research Center / Missouri S&T

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

Coming soon

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