



PROGRAM | DAY 1

TRANSVALOR INTERNATIONAL SIMULATION DAYS

AMPHITHEATER

ELLA FIDZGERALD ROOM

8:30AM

Welcome Coffee, Posters and Exhibition time - EXHIBITOR HALL

8:55AM

Introduction of the event

Nicolas MORISE, Transvalor

9:00AM

Business & Strategy Overview

Nicolas MORISE, Marc BUSSON & Etienne PERCHAT, Transvalor

9:20AM

Delivering innovation efficiently : a peek into Transvalor's future

Andres RODRIGUEZ-VILLA, Transvalor

9:40AM

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

Max BINAGOT, François FRASCATI & Nikolay OSIPOV, Transvalor

10:20AM

Coffee Break, Posters and Exhibition time - EXHIBITOR HALL

10:50AM

**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

STEELMAKING AND CASTING

INTERPIPE: Continuous casting process optimization using THERCAST®

Oleksandr SHVETS, INTERPIPE

11:15AM

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

Jose ALVES, Transvalor

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

Norimasa YAMASAKI, Nippon Steel

11:40AM

ForgeIA: integrating forging simulation with AI

David RYCKELYNCK, CEMEF, Mines Paris - PSL

Coming soon

12:05PM

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

Angela HAYKAL & Julien BARLIER, Transvalor

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

Mohammad JHAZI, École de technologie supérieure de Montréal

12:30PM

Lunch break - DINING ROOM

1:50PM

Open Discussions with keynote - AMPHITHEATER

2:30PM

Pitch session

Pitch session

2:55PM

STREAMLINING SIMULATIONS WORKFLOWS

Coming soon

PRODUCT AND PROCESS DESIGN

Coming soon

3:20PM

Realistic forging simulations from raw machine data : MPFX module

Arjun Kalkur MATPADI, Aubert & Duval

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

Julien ARTOZOU, Arts et Métiers

3:45PM

Coffee Break, Posters and Exhibition time - EXHIBITOR HALL

4:10PM

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

Salaheddin RAHIMI, University of Strathclyde

Moving Forward into the Foundry Market

Guillaume FRANCOIS, Transvalor

4:35PM

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

Nina MOËLLO, pSeven & Laurence GASTON, Transvalor

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

Widad AYADH, IRT M2P

5:00PM

Optionnal Social Activities (available by reservation)

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



WISH TO EXTEND DISCUSSIONS?

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**AMPHITHEATER****ELLA FIDZGERALD ROOM****8:30AM***Welcome Coffee, Posters and Exhibition time - EXHIBITOR HALL***9:00AM****Introduction**

Laëtitia PEGIE, Transvalor

9:05AM**Keynote**

Vikas SARAF, ATI Forged Product

9:35AM**Keynote**

Elie HACHEM, CEMEF

10:05AM**Industrialization of SAFRAN/CEMEF developments for solidification defects simulation**

Aboubakry AGNE & Ngadia Taha NIANE, SAFRAN TECH

10:30AM*Coffee Break, Posters and Exhibition time - EXHIBITOR HALL***11:00AM****NUMERICAL MODELING : NEXT EVOLUTIONS****Unravelling FORGE® NxT 5.0**

Max BINAGOT, Transvalor

11:25AM**Exploring THERCAST® NxT 3.2**

François FRASCATI, Transvalor

11:50AM**DATA void & porosities**

Daniel PINO MUNOZ & Laurent LANGLOIS, CEMEF/ENSAM Metz

12:15PM**Robust and Feature-aware Arbitrary Lagrangian - Eulerian Method for Material Forming Applications**

Jesus Oswaldo GARCIA, Transvalor

12:40PM*Lunch break - DINING ROOM***2:00PM***Open Discussions with keynote - AMPHITHEATER***2:45PM****Pitch session****3:05PM****MATERIALS AND PROCESSES****Simulation of Orbital Forming Process for Wheel Bearings with FORGE®**

Antoine PIGNOL, NTN Europe

3:30PM**Challenges in simulating burr-free cold forming processes**

Timo KELLER, KLS Martin SE & Co. KG

3:55PM**4:25PM***Coffee Break, Posters and Exhibition time - EXHIBITOR HALL***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

4:50PM**Underskin Overview: Subsurface Fold Detection in Simulation**

Satyajeez KULKARNI, Transvalor

5:15PM**Real-Time Temperature Distribution in Rollers During Hot Rolling**

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

5:50PM**Thermomechanical Processing of NiTiZr Alloys: Experiments and Finite Element Modeling**

Alejandro PADILLA GONZALEZ, University Of North Texas

7:00PM*Gala Dinner - LA SIESTA, ANTIBES***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**HEATING AND THERMAL MODELING****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

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

Krushna SHINDE, Transvalor

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THURSDAY, OCTOBER 1st

PROGRAM | DAY 3

TRANSVALOR INTERNATIONAL SIMULATION DAYS

	AMPHITHEATER	ELLA FIDZGERALD ROOM
8:30AM	<i>Welcome Coffee, Posters and Exhibition time - EXHIBITOR HALL</i>	
8:55AM	Introduction Laëtitia PEGIE, Transvalor	
9:00AM	Simulation of static and dynamic strain ageing effects in industrial alloys and structures Samuel FOREST, Centre des Matériaux Mines Paris PSL CNRS	
9:30AM	Leveraging Machine Learning in Computational Materials Science to Accelerate High-Fidelity Metal Forming Simulations involving Microstructure Prediction Marc BERNACKI, Mines Paris PSL	
10:00AM	Keynote Coming soon	
10:25AM	<i>Coffee Break, Posters and Exhibition time - EXHIBITOR HALL</i>	
10:55AM	MICROSTRUCTURE MODELLING	WELDING MODELLING
11:20AM	DIGIMU® NxT 1.0 beta : A revolution in Grain Size Prediction Simulations Pascal DE MICHELL, 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 GOMEZ, 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	<i>Lunch break - DINING ROOM</i>	
2:15PM	MATERIAL FATIGUE, DURABILITY AND SAFETY	COMING SOON
2:40PM	Pitch session	Pitch session
3:05PM	Coming soon	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
3:30PM	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
3:55PM	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
4:15PM	Coming soon	Coming soon
	<i>Coffee Break, Posters and Exhibition time - EXHIBITOR HALL</i>	
	Best presentation Award & Closing remarks Nicolas MORISE, Transvalor	

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