



TUESDAY, SEPTEMBER 29th

PROGRAM | DAY 1

TRANSVALOR INTERNATIONAL SIMULATION DAYS

8:30AM	<i>Welcome Coffee, Posters and Exhibition time - EXHIBITOR HALL</i>	
8:55AM	AMPHITHEATER	
	Introduction of the event - Nicolas MORISE, Transvalor	
9:05AM	Business & Strategy Overview - Marc BUSSON, Transvalor	
9:25AM	Delivering innovation efficiently : a peek into Transvalor's future - Andres RODRIGUEZ-VILLA, Transvalor	
9:45AM	An inside look at Transvalor's Products Roadmap - Max BINAGOT, François FRASCATI, Nikolay OSIPOV	
10:25AM	<i>Coffee Break, Posters and Exhibition time - EXHIBITOR HALL</i>	
10:50AM	AMPHITHEATER	ELLA FIDZGERALD ROOM
	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	INTERPIPE: Continuous casting process optimization using THERCAST® - Oleksandr SHVETS, INTERPIPE
11:15AM	AI and Deeplearning presentation - Jose ALVES, Transvalor	Case Studies of Continuous Casting Analysis using THERCAST® at Nippon Steel - Norimasa YAMASAKI, Nippon Steel
11:40AM	Coming soon	Coming soon
12:05PM	Technical presentation on Digital forging processes - Coming soon	Coming soon
12:30PM	<i>Lunch break - DINING ROOM</i>	
1:50PM	<i>Open Discussions - AMPHITHEATER</i>	
2:35PM	AMPHITHEATER	ELLA FIDZGERALD ROOM
	Pitch session	Pitch session
2:55PM	Influence of mold geometry and dimensions on the development of compositional heterogeneities in high-strength steels - Mohammad JAHAZI, École de technologie supérieure de Montréal	Investigation of an optimal prediction method for chip formation and cutting temperature in machining - Shusuke NAITO, TOYOTA Motor Corporation
3:20PM	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	Residual Stress Depth Profile from Outside Turning of Titanium - Gary STYGER, University of Johannesburg
3:45PM	<i>Coffee Break, Posters and Exhibition time - EXHIBITOR HALL</i>	
4:10PM	A Digital Eco-system for Open-Die Forging of High-integrity Components - Salaheddin RAHIMI, University of Strathclyde	Challenges in simulating burr-free cold forming processes - Timo KELLER, KLS Martin SE & Co. KG
4:35PM	Enhanced automation and customization of calculation coupling Forge NxT API with pSeven Enterprise - Nina MOËLLO, pSeven & Laurence GASTON, Transvalor	Coming soon
5:00PM	<i>Optionnal Social Activities (available by reservation)</i>	

Reliability of Simulation Data & Quality management

Streamlining simulations workflows

Steelmaking and casting

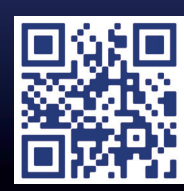
Product and process design

Product and process design

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

WISH TO EXTEND DISCUSSIONS?
Book your speedmeeting with a Transvalor expert today

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WEDNESDAY, SEPTEMBER 30th

PROGRAM | DAY 2

TRANSVALOR INTERNATIONAL SIMULATION DAYS

8:30AM	<i>Welcome Coffee, Posters and Exhibition time - EXHIBITOR HALL</i>	
9:00AM	AMPHITHEATER	
9:05AM	Introduction - Laëtitia PEGIE, Transvalor	
9:35AM	Keynote - Vikas SARAF, ATI Forged Product	
10:05AM	Keynote - Elie HACHEM, CEMEF	
10:30AM	Industrialization of the CAFE Method for predicting stray grains during Solidification - Agn�e ABOUBAKRI & Ngadia TAHA NIANE, SAFRAN	
11:00AM	AMPHITHEATER	ELLA FIDZGERALD ROOM
11:25AM	Unravelling FORGE [®] NxT 5.0 - Max BINAGOT, Transvalor	Flexural strength of reinforced V shaped oxide/oxide composite specimens - Fran�ois GUILLET, Commissariat � l'Energie Atomique
11:50AM	Exploring THERCAST [®] NxT 3.2 - Fran�ois FRASCATI, Transvalor	Expert System : the future of material fitting - St�ephane QUILICI, Transvalor
12:15PM	DATA void & porosities - Daniel PINO MUNOZ & Laurent LANGLOIS - CEMEF	Resolving Cyclic Plasticity in Thermo-Mechanical FEM of Marine Engines with Microstructure - Aware Z-mat Material Models - Rafael Arturo RUBIO RUIZ, Wartsila
12:40PM	Robust and Feature-aware Arbitrary Lagrangian-Eulerian Method for Material Forming Applications - Jesus GARCIA, Transvalor	Modeling architected materials with Z-set - Justin DIRRENERGER, Conservatoire National des Arts et M�tiers
2:00PM	<i>Lunch break - DINING ROOM</i>	
2:45PM	AMPHITHEATER	ELLA FIDZGERALD ROOM
3:05PM	Pitch session	Pitch session
3:30PM	Technical presentation on Ring Rolling - Coming soon	Technical presentation on furnace heating - Marc MORENO, Transvalor
4:10PM	Underskin Overview: Subsurface Fold Detection - Satyajit KULKARNI, Transvalor	FORGE [®] Technical presentation - Coming soon
4:40PM	<i>Coffee Break, Posters and Exhibition time - EXHIBITOR HALL</i>	
5:05PM	Technical presentation on HPDC - MetalTech	Numerical modeling of multifrequency induction hardening process - Baraa QADDAH, IRT M2P
5:30PM	Coming soon	Physical and Machine Learning Modelling of 7XXX Aluminium Alloys Using High Throughput Data for In-Service Performance Prediction - Angela HAYKAL, Transvalor
7:00PM	In-Situ Temperature Distribution Monitoring of Hot Mill Rolls Using Fiber-Optic Sensors - Helin SASAN, Peaslee Steel Manufacturing Research Center / Missouri S&T	Pitch session
	<i>Gala Dinner - LA SIESTA, ANTIBES</i>	

Numerical modeling: next evolutions

Materials and processes

Materials and structures

Heating and thermal modeling

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THURSDAY, OCTOBER 1st

PROGRAM | DAY 3

TRANSVALOR INTERNATIONAL SIMULATION DAYS

8:30AM

Welcome Coffee, Posters and Exhibition time - **EXHIBITOR HALL**

8:55AM

AMPHITHEATER

Introduction Technical presentation - 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 Simulations involving Microstructure Prediction - Marc BERNACKI, Mines Paris PSL

10:05AM

AMPHITHEATER

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

ELLA FIDZGERALD ROOM

Structure informed ultrasound imaging of welds - Andreas SCHUMM, EDF

10:30AM

Coffee Break, Posters and Exhibition time - **EXHIBITOR HALL**

11:00AM

Coming soon

Welding Technical presentation - Transvalor

11:25AM

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

Linear friction welding simulation - Mathieu TOUBOUL, SAFRAN AIRCRAFT ENGINES

11:50AM

Understanding material behavior in hot metal forming 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® NxT 4.1 - Romeo GOMEZ, IRT M2P

12:15PM

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

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

12:40PM

Lunch break - **DINING ROOM**

2:05PM

AMPHITHEATER

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

ELLA FIDZGERALD ROOM

Coming soon

2:30PM

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

Coming soon

3:05PM

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

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

3:30PM

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

Coming soon

3:55PM

Coffee Break, Posters and Exhibition time - **EXHIBITOR HALL**

4:15PM

Best presentation Award & Closing remarks - Nicolas MORISE, Transvalor - **AMPHITHEATER**

Microstructure modeling

Material fatigue, durability and safety

Welding modeling

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