



TUESDAY, SEPTEMBER 29<sup>th</sup>

# PROGRAM | DAY 1

**TRANSVOLOR** INTERNATIONAL SIMULATION DAYS

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

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

**WISH TO EXTEND DISCUSSIONS?**

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WEDNESDAY, SEPTEMBER 30<sup>th</sup>

# PROGRAM | DAY 2

**TRANVALOR** INTERNATIONAL SIMULATION DAYS

<b>8:30AM</b>	<i>Welcome Coffee, Posters and Exhibition time</i> <b>EXHIBITOR HALL</b>	
<b>9:00AM</b>	Introduction - Laëtitia PEGIE, Transvalor <b>AMPHITHEATER</b>	
<b>9:05AM</b>	Keynote - Vikas SARAF, ATI Forged Product <b>AMPHITHEATER</b>	
<b>9:35AM</b>	Keynote - Elie HACHEM, CEMEF <b>AMPHITHEATER</b>	
<b>10:05AM</b>	Industrialization of the CAFE Method for predicting stray grains during Solidification - Agn�e ABOUBAKRI & Ngadia TAHA NIANE, SAFRAN <b>AMPHITHEATER</b>	
<b>10:30AM</b>	<i>Coffee Break, Posters and Exhibition time</i> <b>EXHIBITOR HALL</b>	
<b>11:00AM</b>	Unravelling FORGE® NxT 5.0 - Max BINAGOT, Transvalor <b>AMPHITHEATER</b>	Flexural strength of reinforced V shaped oxide/oxide composite specimens - Fran�ois GUILLET, Commissariat � l'Energie Atomique <b>ELLA FIDZGERALD ROOM</b>
<b>11:25AM</b>	Exploring THERCAST® NxT 3.2 - Fran�ois FRASCATI, Transvalor <b>AMPHITHEATER</b>	Expert System : the future of material fitting - St�phane QUILLICI, Transvalor <b>ELLA FIDZGERALD ROOM</b>
<b>11:50AM</b>	DATA void & porosities - Daniel PINO MUNOZ & Laurent LANGLOIS - CEMEF <b>AMPHITHEATER</b>	Resolving Cyclic Plasticity in Thermo-Mechanical FEM of Marine Engines with Microstructure - Aware Z-mat Material Models - Rafael Arturo RUBIO RUIZ, W�rtsil� <b>ELLA FIDZGERALD ROOM</b>
<b>12:15PM</b>	Technical presentation onHT Aluminium - Angela HAYKAL, Transvalor <b>AMPHITHEATER</b>	Modeling architected materials with Z-set - Justin DIRRENBGER, Conservatoire National des Arts et M�tiers <b>ELLA FIDZGERALD ROOM</b>
<b>12:40PM</b>	<i>Lunch break</i> <b>DINING ROOM</b>	
<b>2:00PM</b>	Round table <b>AMPHITHEATER</b>	
<b>2:45PM</b>	Pitch session & Supplier talk <b>AMPHITHEATER</b>	Pitch session & Supplier talk <b>ELLA FIDZGERALD ROOM</b>
<b>3:05PM</b>	Technical presentation - Ring Rolling - SMS-Group <b>AMPHITHEATER</b>	Technical presentation - Furnace Heating, Transvalor <b>ELLA FIDZGERALD ROOM</b>
<b>3:30PM</b>	Underskin Overview: Subsurface Fold Detection - Satya KULKARNI, Transvalor <b>AMPHITHEATER</b>	FORGE® Technical presentation - QOBEO <b>ELLA FIDZGERALD ROOM</b>
<b>4:10PM</b>	<i>Coffee Break, Posters and Exhibition time</i> <b>EXHIBITOR HALL</b>	
<b>4:40PM</b>	Numerical modeling of multifrequency induction hardening process - Baraa QADDAH, IRT M2P <b>AMPHITHEATER</b>	Technical presentation on HPDC - MetalTech <b>ELLA FIDZGERALD ROOM</b>
<b>5:05PM</b>	In-Situ Temperature Distribution Monitoring of Hot Mill Rolls Using Fiber-Optic Sensors - Helin SASAN, Peaslee Steel Manufacturing Research Center / Missouri S&T <b>AMPHITHEATER</b>	FORGE® Technical presentation <b>ELLA FIDZGERALD ROOM</b>
<b>5:30PM</b>	Pitch session & Supplier talk <b>AMPHITHEATER</b>	Pitch session & Supplier talk <b>ELLA FIDZGERALD ROOM</b>
<b>7:00PM</b>	<i>Cala Dinner</i> <b>LA SIESTA, ANTIBES</b>	

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THURSDAY, OCTOBER 1<sup>st</sup>

# PROGRAM | DAY 3

**TRANSVOLOR INTERNATIONAL SIMULATION DAYS**

<b>8:30AM</b>	<i>Welcome Coffee, Posters and Exhibition time</i> <b>EXHIBITOR HALL</b>	
<b>9:00AM</b>	Introduction Technical presentation- Transvalor <b>AMPHITHEATER</b>	
<b>9:05AM</b>	Simulation of static and dynamic strain ageing effects in industrial alloys and structures - Samuel FOREST, Centre des Matériaux Mines Paris PSL CNRS <b>AMPHITHEATER</b>	
<b>9:35AM</b>	Leveraging Machine Learning in Computational Materials Science to Accelerate High-Fidelity Simulations involving Microstructure Prediction - Marc BERNACKI, Mines Paris PSL <b>AMPHITHEATER</b>	
<b>10:05AM</b>	Exploring DIGIMU® roadmap - Pascal DE MICHELI, Transvalor <b>AMPHITHEATER</b>	Structure informed ultrasound imaging of welds - Andreas SCHUMM, EDF <b>ELLA FIDZGERALD ROOM</b>
<b>10:30AM</b>	<i>Coffee Break, Posters and Exhibition time</i> <b>EXHIBITOR HALL</b>	
<b>10:55AM</b>	DIGIMU® Technical presentation - Advanced Forming Research Center <b>AMPHITHEATER</b>	Welding Technical presentation - Transvalor <b>ELLA FIDZGERALD ROOM</b>
<b>11:20AM</b>	DIGIMU® Study in the Industrial Context of INC718 Subsolvus Processes at OTTO FUCHS KG - Michele MATSUO, Otto Fuchs KG <b>AMPHITHEATER</b>	Linear friction welding simulation - Mathieu TOUBOUL, SAFRAN AIRCRAFT ENGINES <b>ELLA FIDZGERALD ROOM</b>
<b>11:45AM</b>	Understanding material behavior in hot metal forming through microstructure modeling using DIGIMU® - Nadine ELEKYABI, Institute of Metal Forming (IBF) RWTH Aachen University <b>AMPHITHEATER</b>	Finite Element Simulation of multi-material joining processes with FORGE® NxT 4.1 - Romeu GOMEZ, IRT M2P <b>ELLA FIDZGERALD ROOM</b>
<b>12:10PM</b>	Simulation of Continuous Dynamic Recrystallization and Experimental Validation in an Aluminium Alloy - Lahcen ABARAY - CEMEF, Mines Paris - PSL University <b>AMPHITHEATER</b>	Welding Technical presentation - Jacques BESSON, Centre des Matériaux CNRS UMR 7633 <b>ELLA FIDZGERALD ROOM</b>
<b>12:40PM</b>	<i>Lunch break</i> <b>DINING ROOM</b>	
<b>2:05PM</b>	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 <b>AMPHITHEATER</b>	Technical presentation <b>ELLA FIDZGERALD ROOM</b>
<b>2:30PM</b>	Comparison of Experimental and Simulated Crack Paths on Helicopter Engine Gears - Marine HARCOURT, Safran Helicopter Engines <b>AMPHITHEATER</b>	Robust and Feature-aware Arbitrary Lagrangian-Eulerian Method for Material Forming Applications - Jesus GARCIA, Transvalor <b>ELLA FIDZGERALD ROOM</b>
<b>3:05PM</b>	3D Crack Propagation simulation of Single Tooth Bending Tests using Z-cracks: Application to Nitrided Gears - Regis KENKO, Safran Transmission Systems <b>AMPHITHEATER</b>	Technical presentation - Krushna SHINDE, Transvalor <b>ELLA FIDZGERALD ROOM</b>
<b>3:30PM</b>	Towards Efficient 3D Crack Growth Simulations Florian MERAY - Safran Aircraft Engines <b>AMPHITHEATER</b>	Shape Comparison Tool: Alignment of CAD Models with Tomographic Scans for Numerical Simulation and Experimental Validation - Krushna SHINDE, Transvalor <b>ELLA FIDZGERALD ROOM</b>
<b>3:55PM</b>	<i>Coffee Break, Posters and Exhibition time</i> <b>EXHIBITOR HALL</b>	
<b>4:15PM</b>	Best presentation Award & Closing remarks - Nicolas MORISE, Transvalor <b>AMPHITHEATER</b>	

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