TISD 2026
SEPT. 29 - OCT. 01
PALAIS DES CONGRÈS
ANTIBES - JUAN-LES-PINS

TUESDAY, SEPTEMBER 29th

PROGRAM | DAY 1

TRANSVALOR INTERNATIONAL SIMULATION DAYS

	AMPHITHEATER	ELLA FIDZGERALD ROOM
8:30AM		
8:55AM	*Welcome Coffee, Posters and Exhibition time - **EXHIBITOR HALL***	
	Introduction of the event Nicolas MORISE, Transvalor	
9:05AM	**Business & Strategy Overview** Nicolas MORISE, Marc BUSSON & Etienne PERCHAT, Transvalor	
9:25AM	**Delivering innovation efficiently : a peek into Transvalor's future** Andres RODRIGUEZ-VILLA, Transvalor	
9:45AM	**Transvalor Roadmap: navigating every stage from liquid material to finished product and its life cycle** Max BINAGOT, François FRASCATI & Nikolay OSIPOV, Transvalor	
10:25AM	*Coffee Break, Posters and Exhibition time - **EXHIBITOR HALL***	
10:50AM	*AI AND DIGITAL SIMULATION: A STRATEGIC ASSET TO TACKLE INDUSTRIAL CHALLENGES*	*STEELMAKING AND CASTING*
	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	**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	**Coming soon**
12:30PM	*Lunch break - **DINING ROOM***	
1:50PM	*Open Discussions with keynote - **AMPHITHEATER***	
	STREAMLINING SIMULATIONS WORKFLOWS	*PRODUCT AND PROCESS DESIGN*
2:35PM	**Pitch session**	**Pitch session**
2:55PM	**Realistic forging simulations from raw machine data : MPFX module** Arjun Kalkur MATPADI, Aubert & Duval	**Challenges in simulating burr-free cold forming processes** Timo KELLER, KLS Martin SE & Co. KG
3:20PM	**A Digital Eco-system for Open-Die Forging of High-integrity Components** Salaheddin RAHIMI, University of Strathclyde	**Development and Validation of a 2D Finite Element Model for Flow Forming Process Optimization of Thin-Walled Components** Aitor NAVARRO, Tubacex Innovation
3:45PM	*Coffee Break, Posters and Exhibition time - **EXHIBITOR HALL***	
4:10PM	**Enhanced automation and customization of calculation coupling Forge NxT API with pSeven Enterprise** Nina MOËLLO, pSeven & Laurence GASTON, Transvalor	**Influence of mold geometry and dimensions on the development of compositional heterogeneities in high-strength steels** Mohammad JAHAZI, École de technologie supérieure de Montréal
4:35PM	**Shape Comparison Tool: Alignment of CAD Models with Tomographic Scans for Numerical Simulation and Experimental Validation** Krushna SHINDE, Transvalor	**Bridging Experiment and Simulation in Casting: Validation Methodologies Across Casting Processes and Recent Advances in Lost Foam Modeling** Julien ARTOZOUL, Arts et Métiers
5:00PM	*Optionnal Social Activities (available by reservation)*	

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WEDNESDAY, SEPTEMBER 30th

PROGRAM | DAY 2

TRANSVALOR INTERNATIONAL SIMULATION DAYS

	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 the CAFE Method for predicting stray grains during Solidification** 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	*MATERIALS AND STRUCTURES* **Flexural strength of reinforced V shaped oxide/oxide composite specimens** François GUILLET, Commissariat à l'Energie Atomique
11:25AM	**Exploring THERCAST® NxT 3.2** François FRASCATI, Transvalor	**Expert system for the calibration of material constitutive models** Stéphane QUILICI, Transvalor
11:50AM	**DATA void & porosities** Daniel PINO MUNOZ & Laurent LANGLOIS, CEMEF/ENSAM Metz	**Resolving Cyclic Plasticity in Thermo-Mechanical FEM of Marine Engines with Microstructure - Aware Z-mat Material Models** Rafael Arturo RUBIO RUIZ, Wärtsilä
12:15PM	**Robust and Feature-aware Arbitrary Lagrangian - Eulerian Method for Material Forming Applications** Jesus Oswaldo GARCIA, Transvalor	**Modeling architectured materials with Z-set** Justin DIRRENBERGER, Conservatoire National des Arts et Métiers
12:40PM	*Lunch break - **DINING ROOM***	
2:00PM	*Open Discussions with keynote - **AMPHITHEATER***	
2:45PM	*MATERIALS AND PROCESSES* **Pitch session**	*HEATING AND THERMAL MODELING* **Pitch session**
3:05PM	**Technical presentation on Ring Rolling** Coming soon	**Importance of radiative heat transfer in industrial furnaces: Insights from numerical simulation of single and multi-part heating** Marc MORENO, Transvalor
3:30PM	**Underskin Overview: Subsurface Fold Detection in Simulation** Satyajeet KULKARNI, Transvalor	**FORGE® Technical presentation** Coming soon
4:10PM	*Coffee Break, Posters and Exhibition time - **EXHIBITOR HALL***	
4:40PM	**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	**Numerical modeling of multifrequency induction hardening process** Baraa QADDAH, IRT M2P
5:05PM	**Coming soon**	**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
5:30PM	**Pitch session**	**Pitch session**
7:00PM	*Gala Dinner - **LA SIESTA, ANTIBES***	

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THURSDAY, OCTOBER 1st

PROGRAM | DAY 3

TRANSVALOR INTERNATIONAL SIMULATION DAYS

	AMPHITHEATER	ELLA FIDZGERALD ROOM
8:30AM	*Welcome Coffee, Posters and Exhibition time - **EXHIBITOR HALL***	
8:55AM	**Introduction** 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	
	MICROSTRUCTURE MODELLING	*WELDING MODELLING*
10:05AM	**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
10:30AM	*Coffee Break, Posters and Exhibition time - **EXHIBITOR HALL***	
11:00AM	**DIGIMU® Study in the Industrial Context of INC7 18 Subsolvus Processes at OTTO FUCHS KG** Michele MATSUO, Otto Fuchs KG	**Resistance and Electrically Assisted Welding Processes - Benefits of Numerical Simulation** Stéphane MARIE, Transvalor
11:25AM	**Thermomechanical Processing of NiTiZr Alloys: Experiments and Finite Element Modeling** Alejandro PADILLA CONZALEZ - University Of North Texas	**Toward a modeling approach of dissymmetric linear friction welding** Mathieu TOUBOUL, SAFRAN AIRCRAFT ENGINES
11:50AM	**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® NxT 4.1** Romeu GOMEZ, IRT M2P
12:15PM	**Experimental Study and Numerical Simulation of Continuous Dynamic Recrystallization Using DIGIMU®: Application to 2xxx Aluminium Alloys** Lahcen ABARAY, CEMEF, Mines Paris - PSL University	**Welding Technical presentation** Jacques BESSON, Centre des Matériaux CNRS UMR 7633
12:40PM	*Lunch break - **DINING ROOM***	
	MATERIAL FATIGUE, DURABILITY AND SAFETY	*COMING SOON*
2:05PM	**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	**Validation of an optimal prediction method for chip formation and cutting temperature in machining** Shusuke NAITO, TOYOTA Motor Corporation
2:30PM	**Three-Dimensional Crack Propagation Analysis of Surface-Hardened Gears under Contact and Centrifugal Loading: Numerical Predictions and Experimental Correlations** Regis KENKO, Safran Transmission Systems	**Residual Stress Depth Profile from Outside Turning of Titanium** Gary STYGER, University of Johannesburg
3:05PM	**Towards Efficient 3D Crack Growth Simulations** Florian MERAY, Safran Aircraft Engines	**In-Situ Temperature Distribution Monitoring of Hot Mill Rolls Using Fiber-Optic Sensors** Helin SASAN, Peaslee Steel Manufacturing Research Center / Missouri S&T
3:30PM	**Comparison of Experimental and Simulated Crack Paths on Helicopter Engine Gears** Coming soon	**Coming soon**
3:55PM	*Coffee Break, Posters and Exhibition time - **EXHIBITOR HALL***	
4:15PM	**Best presentation Award & Closing remarks** Nicolas MORISE, Transvalor	

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