TISD 2024
40th ANNIVERSARY

SEPTEMBER 30th

PROGRAM | DAY 1

TRANSVALOR INTERNATIONAL SIMULATION DAYS

10AM		Welcoming exhibitors and participants ***WELCOME DESK***	Technical speed meeting sessions ***INDIVIDUAL MEETING ROOMS***
12PM		Welcome lunch ***PULLMAN RESTAURANT ROYAL BAY***	
1:30PM		**Introduction of the event** - Nicolas MORISE, Transvalor ***SALON RIVIERA AB***	
1:40PM		**Business & Strategy Overview** - Nicolas MORISE, Transvalor ***SALON RIVIERA AB***	
2:00PM		**Overview of the Strategic Development Axes for the Transvalor Software Suite** - Richard DUCLOUX Transvalor ***SALON RIVIERA AB***	
2:25PM	Supplier talks	**Pitches** - Mondragon, AFRC & CEA, Siempelkamp ***SALON RIVIERA AB***	**From simulation data to generative AI model : a demonstration using Transvalor and Miura AI** - Yves LE GUENNEC, Miura Simulation ***SALON RIVIERA C***
2:45PM	Supplier talks	**Thermal modeling of tools with FORGE®** - Stéphane MAGRON, CETIM ***SALON RIVIERA AB***	**Process automation and AI-powered optimisation unleash the power of the Transvalor solution** - Nina MOËLLO, pSeven ***SALON RIVIERA C***
3:05PM		*Exhibition time* ***SALON DES ILES***	
3:25PM	Supplier talks	**How easy2forge with FORGE® interface simplifies and revolutionizes open die forging simulation** - Tobias FISTER, Dr. Fister GmbH ***SALON RIVIERA AB***	**Unleash the future of innovation: Run FORGE®/THERCAST® simulations using RESCALE Cloud HPC platform** - Romain KLEIN, Rescale ***SALON RIVIERA C***
3:45PM	Supplier talks	**Novel Performance Characterization of Forging Fluids** - Mo GHARBI, Quaker Houghton ***SALON RIVIERA AB***	**Enhancing Industrial Performance by Coupling FORGE® and RingLab Software for Profiled Ring Simulation** - Kékéli KPOGAN, ECAI ***SALON RIVIERA C***
4:05PM	Supplier talks	**JMatPro® for alloys data in process simulation** - Jean-Philippe SCHILLÉ, Sente Software ***SALON RIVIERA AB***	**Valid Carbon Footprint Calculation for SMEs** - Tobias HAIN, FRED GmbH ***SALON RIVIERA C***
4:25PM		*Coffee break and exhibition time* ***SALON DES ILES***	
4:45PM	Special application	**Near isothermal forging of hipped NI-based superalloy (RENE 95)** - Enes DAGCI, Parsan ***SALON RIVIERA AB***	**Welding computations and parametric studies** - François FRASCATI, Transvalor ***SALON RIVIERA C***
5:10PM	Special application	**Glass forming - Crafting a Perfume Bottle** - Antoine LOPEZ, POCHET ***SALON RIVIERA AB***	**Microstructure-informed ultrasound imaging of welds – the Horizon Europe project iWeld** - Andreas SCHUMM, EDF R&D ***SALON RIVIERA C***
5:35PM	Special application	**The Evolution of Parallel Remeshing in FORGE®** - Ugo RIPERT, Transvalor ***SALON RIVIERA AB***	**Using process simulation to choose next generation machines** - Agathe DEMAY, MBDA ***SALON RIVIERA C***
6:30PM		**Welcome cocktail** ***PULLMAN RESTAURANT***	

TISD 2024
40TH ANNIVERSARY
SEPT. 30 - OCT. 02
CANNES - MANDELIEU

OCTOBER 1st

PROGRAM | DAY 2

TRANSVALOR INTERNATIONAL SIMULATION DAYS

7:45AM Sports activities

8:30AM Welcome and exhibition time
SALON DES ILES

9:00AM Introduction - Laëtitia PEGIE, Transvalor
SALON RIVIERA AB

9:05AM **Transformation of the Forging Industry in Europe** - Tobias HAIN, Euroforge
SALON RIVIERA AB

9:35AM **Hot & Cold Forming Roadmap** - Max BINAGOT, Transvalor
SALON RIVIERA AB

10:00AM **Grain size prediction in DIGIMU® 5.0 : going deeper into the physics** - Pascal DE MICHELI, Transvalor
SALON RIVIERA AB

10:25AM *Coffee break and exhibition time*
SALON DES ILES

10:50AM **Location-dependent modeling of friction coefficients based on contact pressure and sliding distance in bulk forming** - Simon Peddinghaus - Institut für Umformtechnik und Umformmaschinen
SALON RIVIERA AB

11:15AM **Simulation and validation of metal flow in the ring manufacturing process** - Patrick HOLM, OVAKO AB
SALON RIVIERA AB

11:40AM **Verification of Simulation Application in Motor Coil Forming and Machining process Utilizing Model-Based Development (MBD)** - Shino ISAJI, Toyota
SALON RIVIERA AB

12:05PM **Get it real! Improve your way to simulate and visualize process phenomenon** - Andreas BERTOG, ABC Umformtechnik GmbH & Co.KG
SALON RIVIERA AB

Hot & cold forming

10:50AM **Prediction of microstructure evolutions of AISI 304L stainless steel during hot-rolling with DIGIMU®** - Thomas SOURISSEAU, Ugitech, Jaime FRANCO, Transvalor
SALON RIVIERA C

11:15AM **Mean-Field simulation of microstructure evolution during forging using FORGE® and DynamiX** - Lukas KERTSCH, Fraunhofer Institute for Mechanics of Materials IWM
SALON RIVIERA C

11:40AM **Microstructural modeling for process optimization using DIGIMU®** - Holger BRÜGGEMANN, RWTH Aachen University, Institute of Metal Forming (IBF)
SALON RIVIERA C

12:05PM **Modeling the hot extrusion process of zirconium alloys and the associated microstructure evolutions using FORGE®, DynamiX and DIGIMU®** - Alexis GAILLAC, Framatome
SALON RIVIERA C

Microstructure

12:30PM *Lunch break*
ROYAL BAY

1:30PM **Innovations in the production of electric vehicles - Round table Symposium** (Yvan CHASTEL, Renault, Hervé LENON, NTN, Mo GHARBI, Quaker Houghton)
SALON RIVIERA AB

2:15PM **Simulation of forged hollow rotor shafts for wind turbines made of air-hardening ductile forging steels** - Moritz GOUVERNEUR, IBF – Institute of Metal Forming, RWTH Aachen University
SALON RIVIERA AB

2:40PM **Process Design Optimization Initiatives Using FORGE® and Optimization Software** - Kenji KATO, AISIN
SALON RIVIERA AB

3:05PM **Modelization of Superaustenitic Stainless Steel Extrusion Process for Power Generation Market** - Aitor NAVARRO,Tubacex
SALON RIVIERA AB

3:30PM **Practical Applications of FORGE® Software in industrial Forging Processes** - Hakan ÖZTÜRK, Repkon
SALON RIVIERA AB

Hot & cold forming

2:15PM **Development of Lightweight Truck Load Wheel using High Strength Steels** - Hyuk Sun KWON, Posco
SALON RIVIERA C

2:40PM **Numerical and experimental validation of 2 roller vertical flow forming process using EN36B steel** - Acar Can KOCABICAK - Ghent University
SALON RIVIERA C

Flow forming

3:05PM **Heat Treatment Roadmap** - Max BINAGOT, Transvalor
SALON RIVIERA C

3:30PM **Benefits of Thermo-Mechano-Metallurgical Simulation in Heat Treatment Applications** - Bruno STAUDER, Bodycote
SALON RIVIERA C

Heat treatment

3:55PM *Mini-break*
SALON DES ILES

4:05PM Technical speed meetings
INDIVIDUAL MEETING ROOMS

Cultural visits
PARFUMERIE FRAGONARD

Cultural visits
CANNES CENTER

7PM Gala dinner
ROYAL BAY

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TRANSVALOR

TISD 2024
40TH ANNIVERSARY

OCTOBER 2nd

PROGRAM | DAY 3

TRANSVALOR INTERNATIONAL SIMULATION DAYS

9AM
The Future of Material Forming: Integrating Experimental Insights, Numerical Methods, and Machine Learning Across Diverse Processes - Elie HACHEM, CEMEF
SALON RIVIERA AB

9:30AM
Digitalisation and AI: Revolutionizing Manufacturing - Christian DUMONT, Aubert & Duval, Bradley WYNNE, AFRC, Elie HACHEM, CEMEF
SALON RIVIERA AB

10:15AM

Casting

THERCAST® Evolution: Advancing Solutions for the Steel and Foundry Industries - François FRASCATI, Transvalor
SALON RIVIERA AB

10:40AM

Digital Twins in Continuous Casting: Thercast Implementation at Tata Steel Netherlands - Bruno LUCHINI & André BURGHARDT, Tata Steel
SALON RIVIERA AB

Heat treatment

FORGE® modeling support for a better control of induction heating processes - Alexandre FORNARA, Aubert & Duval
SALON RIVIERA C

Limitation of Deformation in Heat Treatment - Remy NAPIERALA, Quaker Houghton
SALON RIVIERA C

11:05AM
Coffee break and exhibition time
SALON DES ILES

11:45AM

Casting

Ingots' cooling conditions study and optimization - Antonios CHOLERIDIS, Industeel
SALON RIVIERA AB

12:10PM

Size Steel Ingots - Influence of the Hot-Top Thermal Regime on the Severity and Extent of Macrosegregation in Large - Mohammad JAHAZI, Ecole De Technologie Superieure, Montréal, Canada
SALON RIVIERA AB

12:35PM

Industrial applications of THERCAST® 3.0, a high-quality solution for foundries - Olivier JAOUEN, Transvalor, Jean-Pierre MICHALET, Stellantis
SALON RIVIERA AB

Heat treatment

Thermochemical Treatments with FORGE® – an overview - Simon THIBAULT, NTN
SALON RIVIERA C

Development of microstructurally graded samples in 7xxx alloys aiming for high throughout precipitate characterization - Thomas PEJOT, Transvalor
SALON RIVIERA C

Modeling the induction hardening process for a steering rack bar - Arthur GAUTHEREAU & Imanol MARTINEZ PEREZ, Jtekt
SALON RIVIERA C

1PM
Lunch break
ROYAL BAY

2PM

Fatigue & product lifetime

Z-set/FORGE® interoperability solutions overview - Nikolay OSIPOV, Transvalor
SALON RIVIERA AB

2:25PM

Z-cracks – Industrial validation of a 3D fracture mechanics simulation software - Didier SORIA, Safran
SALON RIVIERA AB

2:50PM

A tour of Onera's recent Z-set developments: HPC, high-level python interface and crack propagations - Vincent CHIARUTTINI & Christophe BOVET, Onera
SALON RIVIERA AB

Artificial Intelligence

Advanced FEM Modeling of Shear Cutting: Temperature and Strain Rate Effects in 2205 Duplex Stainless Steel - David ABEDUL, Mondragon University
SALON RIVIERA C

Overview of DeepLearning activities - José ALVES, Transvalor
SALON RIVIERA C

Physics Informed Graph Neural Architectures - Toward Digital Twins - Marien CHENAUD, Transvalor
SALON RIVIERA C

3:15PM
Coffee break and exhibition time
SALON DES ILES

3:25PM

Fatigue & product lifetime

Simulation of ductile failure using nonlocal models - Jacques BESSON, MinesParis
SALON RIVIERA AB

3:45PM

Simulation of hydrogen embrittlement of steels - Daniella LOPES PINTO, Transvalor
SALON RIVIERA AB

Foam injection

Enhancing REM3D® : Interface and Solver Innovations for Improved Performance - François FRASCATI, Transvalor
SALON RIVIERA C

Optimization of thermosetting resin curing - Alan TABORE, Essilor, Guillaume FRANÇOIS, Transvalor
SALON RIVIERA C

4:05PM
Best Simulation Award & Closing Address - Nicolas Morise, Transvalor
SALON RIVIERA AB

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