

Tuesday, March 6th			
Time	Title	Presenter	Project
11:00	Arrival of the chartered bus		
12:00	Lunch		
13:30	Welcome address & presentation of ELYT Global	J. Fontaine, T. Uchimoto & D. Fabrègue	
13h50	Information on Core to Core program	T. Takagi	
14:00	Elaboration and characterization of porous FeCr obtained by liquid metal dealloying	M. Mokhtari	DeProMiNa
14:20	Consolidation Process of Cu from Powder to Plate by Compression Shearing Method	H. Miki & S. Takeda	COSMIC
14:40	The choice of Nd ³⁺ /Yb ³⁺ rare earth ions-doped Lu ₂ O ₃ sesquioxide as a laser material	G. Boulon & A. Yoshikawa	LasMat
15:00	Study of the surface roughness measurement by ultrasonic scattering on a carbon steel block	P. Guy & H. Nakamoto	PYRAMID
15:20	Micromagnetic Non Destructive Testing: joining materials models and NDT experiment	B. Ducharne & T. Uchimoto	BeNTo
15:40	Coffee break		
16:10	J-F Collaborations of Materials related to CFRP, Actuators, Adhesion and EBI processes	Y. Nishi	
16:30	Miniature-Scale Energy Generation by Magnetic Shape Memory Alloys	M. Kohl	MISTRAL
16:50	Rolling Characteristics of Neutrophils on PDMS Surface Mimicking the Endothelial Topography: Effect of Pressing Force on Cell Trajectories	J.P. Rieu & A. Shirai	MicroCell
17:10	Endovascular research and training using PVA-H models	S. Tupin	FMMD
17:30	In-situ techniques in electron microscopy	L. Joly-Pottuz	
17:50	Information about ELYT School 2018	V. Fridrici & N. Wada	
18:00	End of session		
	Poster session (see last page) & free discussions		
19:30	Dinner		

Wednesday, March 7th			
Time	Title	Presenter	Project
7:30	Breakfast (last order at 8:30)		
9:00	<i>Invited talk:</i> Ab Initio Modeling of Dislocation Cores in Metals	D. Rodney	
9:30	Additive manufacturing of 3D architected metal/ceramic biomaterials by robocasting	M. Coffigniez	
9:50	Rubber-Ice Friction mechanisms: Multi-Physical and multi-scale approach	S. Hemette	EliceTrib
10:10	Influence of the composition on properties of Co based alloys	A. Chiba & D. Fabrègue	DECCOBABA
10:30	Coffee break		
10:50	Experiments and simulations on wear mechanisms of DLC and ceramics	M.I. De Barros & M. Kubo	SuperLub
11:10	New metallic glasses for biomedical applications	O. Baulin	
11:30	Low and ultralow friction of microcrystalline diamonds films: towards smart and tribo-resistant coatings	M. Belin & H. Miki	IofDIAMS
11:50	Robust shape optimization under squeal noise response of brake systems	F. Gillot & K. Shimoyama	MuORode
12:10	End of session		
12h30	Lunch		
14:00	<i>Invited talk:</i> Ultrahigh-temperature materials research in Tohoku University	K. Yoshimi	
14:30	Design of interface structure of fiber-reinforced polymer blend	H. Kosukegawa	DESIRE
14:50	Mechanical characterization of Inter-particle sintering of Ultra High Molecular Weight Polyethylene (UHMWPE)-Fumed nano-alumina (FNA) composites processed under different interfacial loading conditions	K. Ogawa & O. Lame	PolymCold SprayCoat
15:10	Effects of temperature elevation on drilling of acrylic composite materials for bone biomodel	Y. Muramoto	BoneDrill
15:30	Piping sYstem, Risk management based on wAll thinning MonItoring and preDiction	T. Takagi & P. Guy	PYRAMID
15:50	Coffee break		
16:20	Experimental Study on Active Control of Protein Mass Flux	A. Komiya	
16:40	Nonlinear Ultrasonic Phased Array for Imaging Closed Cracks	Y. Ohara	
17:00	Surface Integrity and Structural Integrity	T. Shoji	
17:20	Magneto-mechanical energy conversion in magneto-rheological elastomers: effect of matrix change	G. Sebald	MARECO
17:40	Numerical Analysis for Ultrasonic Testing using EMAT under Extremely High Temperature	F. Kojima	
18:00	End of session		
	Free discussions		
19:00	Dinner		

Friday 8th			
Time	Title	Presenter	Project
7:30	Breakfast (last order at 8:30)		
9:00	Wall turbulence nature and its control aimed at laminar wing technology	A. Yakeno	
9:20	Mechanism Analysis Technique for Fuel Diversification: In-situ Observation of Tribo-chemical Reaction in Methanol Blended Gasoline	K. Yoshida	
9:40	Application of big data analysis to NDT data pool	T. Soma	
10:00	Optimizing surface finish to Prevent SCC initiation in energy industries	H. Abe	OPSCC
10:20	Coffee break		
10:50	Thermofluid characteristics of a flow channel with finger-stacked structure	S. Ebara	
11:10	Thermomechanical modelling of High Molecular Weight semi-crystalline polymers - Application to Cold-Spray simulation	C. Bernard	PolymCold SprayCoat
11:30	Concluding remarks		
11:50	Wrap up		
12:00	Lunch		
13:30	Gathering for departure		
14:00	Departure of the chartered bus		

List of posters

Number	Title	Presenter	Project
1	Consolidation Process of Cu from Powder to Plate by Compression Shearing Method	S. Takeda	COSMIC
2	Texturation multi-échelle des surfaces et effet sur le comportement tribologique d'un cartilage artificiel	L. Jay	TriArtiJoints
3	MIP NDT Characterization and Modelling	B. Gupta	BeNToc
4	Topology optimization for intracranial stent based on computational fluid dynamics	M. Ohta	
5	Study on experimental evaluation of repassivation condition of chloride stress corrosion cracking	T. Ohira	