

Annual Workshop of ELyT Laboratory on Feb. 22 - 24, 2011 in Sendai (TENTATIVE)

Day	AM 9:00 – 10:30 90 min.	Coffee Break 10:30 – 10:45	AM 10:45 – 12:30 105 min	Lunch 12:30 – 13:30	PM 13:30–15:30 120 min	Coffee Break 15:30 – 15:45	PM 15:45–17:45 120min	Evening Event
Tuesday, Feb. 22	Opening Session by EVP Iijima (see next sheet)	Coffee Break 10:30 – 10:45	Opening Session & 11:30 – 12:30 Plenary Lecture by Prof. Kingo Itaya on “Atomic Scale Aspects of Electrode/Electrolyt e Interfaces” (tentative)	Sakura Hall, Buffet Style	“Organized session on Surface and Interface”	Coffee Break 15:30 – 15:45	Bio-science and Engineering”	Welcome Party
Wednesday, Feb 23	“Durability Reliability in Energy and Transportation”		“Durability Reliability in Energy and Transportation”	Sakura Hall, Buffet Style	“Flow Dynamics, Heat Transfers and Microfluidics” “Biotribology”		“Organized Session:Industry- University-District Solidarite”	By your own
Thursday, Feb 24	“Micro and Nano Scale Materials and Devices”		“Micro and Nano Scale Materials and Devices”	Sakura Hall, Buffet Style	“Tribology”		CNRS ELyT Steering committee	President Dinner
Friday, Feb 25	Poster Session							
	Touristic Tours (one day)							

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(Tentative Schedule)

Opening Session	February 22, 9:00 -12:30	Chair: Tetsuo SHOJI, co-director of ELyT lab
9:00 - 9:10	Welcome address by EVP Dr. T. IJIMA	
9:10 - 9:20	Welcome address by Philippe KAPSA, co-director of ELyT lab	
9:20 - 10:00	Introduction about ELyT Lab. by Jean-Yves CAVAILLE, co-director of ELyT-lab	
10:00 - 10:30	Introduction of each group activities by the group leaders	
10:30 - 10:45	Coffee Break	
10:45 - 11:05	Introduction of each group activities by the group leaders	
11:05 - 11:30	Potential collaboration areas and Q & A	
11:30:12:30	PLENARY LECTURE by Prof. Kingo ITAYA "Atomic Scale Aspects of Electrode/Electrolyte Interfaces"	
12:30 - 13:30	Lunch	

Organized Session Surface and Interface	February 22 13:30 -15:30	Chairs
13:30 - 14:00	Sandrine BEC (ECL) "How nanoindentation tests can help to better understand chemo-mechanical phenomena involved in dry grinding"	
14:00 - 14:30	Denis MAZUYER (ECL) "Tribology of textured surfaces"	
14:30 - 15:00	Jenny FAUCHEU, Ecole des Mines de Saint-Etienne, "Interacting with surfaces"	
15:00 - 15:30		
15:30 - 15:45	Coffee Break	

Bio Session	February 22 15:45 - 17:45	Chairs: Noriko OSUMI
15:45 - 16:15	INVITED PRESENTATION Cecile NOUGUIER & Thierry HOC "Mechanics of bones"	
16:15 - 16:45	Hiroyuki KOSUKEGAWA, Makoto OHTA, Vincent FRIDRICI "Tribology of catheters"	
16:45 - 17:15	Cyril PAILLER MATTEI "Skin friction"	
17:15 - 17:45	Yoshinori HAYAKAWA, Laurent GOLE, Jean-Paul RIEU "Collective diffusion of animals and cells"	

Durability Session	February 23 9:00 - 10:30	Chairs: Joel COURBON & Yutaka WATANABE
9:00 - 9:30	Gael SEBALD "Self-powered and Wireless Smart Systems and its Applications to Vibration Control/Energy Harvesting and Structural Health Monitoring"	
9:30 -10:00	Emilien DURIF "SCC of zirconium alloys in halide solutions"	
10:00 - 10:30	Olivier LAVIGNE "Ultrasonic Assisted Corrosion"	
10:30 - 10:45	Coffee Break	
Durability Session	February 23 10:45 - 12:30	Chairs: Joel COURBON & Yutaka WATANABE
10:45 - 11:15	Momoji KUBO "Electronic- and Atomic-Level Simulation on the Degradation Process of Polymers"	
11:10 - 11:35	Laurent CHAZEAU "Prediction of the life duration of filled elastomers submitted to radiation: how to reach this goal?"	
11:35 - 12:00	Alain COMBESCURE and Abreeza MANAP "Computational simulation for cold sprayed deposition"	
12:00 - 12:25	Gael SEBALD, Daniel GUYOMAR, Hiroki KUWANO "High Performance Energy Harvesting Devices"	
12:30 - 13:30	Lunch	

13:30 – 14:30	PLENARY LECTURE By Prof. Yves BRECHET "Structural biomimetics: a parallel between engineering design and natural materials"
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"Flow Dynamics, Heat Transfers & Microfluidics"	Feb. 23 13:30 - 15:30	Chairs: TOKUMASA, Makoto OHTA
14:30 - 15:00		
15:00 - 15:30		
15:30 - 15:45		Coffee Break

"Organized Session: Industry-University-District Solidarite"	February 23 15:45 – 17:45	Chair: Naoto WADA
15:45 - 16:05	Welcome address and Industry-University Collaboration at Tohoku Univ. by EVP Mr. Hiroshi KAZUI	
16:05 - 16:25	Industry-University Collaboration in Rhone-Alps by Dr. Jean-Michel MOLLIER, ERAI	
16:25 - 16:45	Industry-University Collaboration at University of Lyon by JP BERTOGLIO, VP-ECL) and JM REYNOUARD, VP-INSA de Lyon)	
16:45 - 17:00	Globalization of Regional Industries by Eisaku NISHIYAMA, New Technology Commercialization Center of Tohoku	
17:00 - 17:10	Strategy and Future of Miyagi Prefecture - Automotive industries and Electronics industries by HIRAZUMI, Miyagi Prefecture (tentative)	
17:10 - 17:20	by Sendai City for Welfare projects	
17:20:17:45	Panel Discussion or some more presentations from industries	

Nano Session	Feb. 24 9:00 - 10:30	Chairs: Akihiko CHIBA & Alain FAVE
9:00 - 9:40	Damien FABRÈGUE, Akihiko CHIBA "Improvement and damage characterization of Co alloys" & "New microstructure for Ti alloys, biomedical applications"	
9:40 - 10:05	Georges BREMOND, Kotone AKIYAMA "AFM electrical modes for nanoscale technology: possibilities and future applications"	
10:05 - 10:30	Tetyana NYCHYPORUK, Alain FAVE, Noritaka USAMI "Si nanowires embedded in alumina matrix"	
10:30 - 10:45	Coffee Break	

Nano Session	Feb. 24. 10:45 - 12:30	Chairs: Akihiko CHIBA & Alain FAVE
10:45 - 11:15	Thierry EPICIER, K. SATO, F. TOURNUS, T. KONNO "Advanced TEM analysis of nanoparticles and nanostructures in the frame of the EMINA ElyT project"	
11:10 - 11:35	Hidenori TERASAKI, Stéphane LABROSSE, Eiji OHTANI, Jan MATTAS Title undefined yet	
11:35 - 12:00	Erwann FOURMOND New Project with Pr. UDA (IMR) – in discussion "Gallium co-doping of compensated silicon for photovoltaics"	
12:30 - 13:30	Lunch	

Tribo Session	February 24 13:30 - 15:30	Chairs
13:30 - 14:00	J FONTAINE & H MIKI, "Tribologically-based Design Strategies for Advanced Carbon Coatings"	
14:00 - 14:30	M KUBO & JM MARTIN, " Experimental and Quantum Chemical Molecular Dynamics Approach to Action Mechanisms of Lubricant Additives"	
14:30 - 15:00	H ZAHOUANI & Z FUADI, "Friction noise : rough contact stiffness"	
15:00 - 15:30	T TOKUMASU & Ph VERGNE, "Nano-Scale Modeling of Tribological Interfaces"	