

LIA ELYT Global seminar collaborating with LyC seminar on bio-tribology, bio-materials and biomedical engineering

July 6th, 2018 - Ecole Centrale de Lyon

9 am: Welcome coffee & self-introduction of participants

9:30 am: session 1 (4 presentations)

Makoto OHTA (IFS – TU & ELYTMax): Mechanical testing for artery model

Carole FRINDEL & Méghane DECROOCQ (CREATIS – INSA Lyon): Simulation model for contrast agent dynamics in brain perfusion MRI

Yasutomo SHIMIZU (IFS – TU): Fabrication method and clinical application of blood vessel models

Vincent FRIDRICI (LTDS – ECL): Coating tribology for biomedical applications

10:50 am: coffee break

11:10 am: session 2 (4 presentations)

Haoran WANG (IFS – TU): Hemodynamic of bypass graft of coronary artery aneurysms using computational modeling

Narendra Kurnia PUTRA (IFS – TU): Surrogate modelling on designing intravascular stent to minimize the risk of restenosis

Yuta MURAMOTO (IFS – TU & LTDS – ECL): Tribological aspects of acrylic composite materials: The effects of additives

Laura JAY (LTDS – ECL & GSE – TU): Tribological behavior of a low friction system using a double network soft material: DN Gel

12:30 pm: lunch break, sponsored by LIA ELYT Global

2 pm: session 3 (4 presentations)

Tetsuya UCHIMOTO (IFS – TU & ELYTMax): Introduction of IFS Lyon Center

Laurent GREMILLARD (MATEIS – INSA Lyon): Surface modification of zirconia ceramics for better biological interactions

Hassan ZAHOUANI (LTDS – ECL / ENISE): Effect of femtosecond laser texturing of the titanium alloy on the contact stiffness and the forces felt by the stem cells

Ko KITAMURA (IFS – TU): Does hypertension history affect morphology or haemodynamic characteristics of vertebrobasilar system? A retrospective study of 249 patients diagnosed with hypertension

3:20 pm: concluding remarks and end of the meeting