

OS20: AFI-2020 IFS Lyon Center Collaborative Research Forum

October 29, 2020
ROOM5 (Zoom Webinar)

- OS20-1 **Computational Simulation on Particle Laden Flow during Polymer Cold-Spray Process**
17:10-17:30 Chrystelle Bernard (Tohoku University / ELyTMaX UMI 3757, CNRS – Université de Lyon – Tohoku University, International Joint Unit, Tohoku University, Japan), Hidemasa Takana (Tohoku University, Japan), Olivier Lame (Université de Lyon, France), Kazuhiro Ogawa (Tohoku University / ELyTMaX UMI 3757, CNRS – Université de Lyon – Tohoku University, International Joint Unit, Tohoku University, Japan), Jean-Yves Cavallé (ELyTMaX UMI 3757, CNRS – Université de Lyon – Tohoku University, International Joint Unit, Tohoku University, Japan)
- OS20-2 **Response Characteristics of Cellulose Nanofibril under AC Electric Field during Flow Focusing**
17:30-17:50 Hidemasa Takana, Mengfei Guo (Tohoku University, Japan)
- OS20-3 **Stochastic Fluid Dynamics Simulations of Velocity Distribution in Protoplasmic Streaming**
17:50-18:10 Vladislav Egorov, Olga Maksimova (Cherepovets State University, Russia), Irina Andreeva (Peter the Great St. Petersburg Polytechnic University, Russia), Hiroshi Koibuchi, Satoshi Hongo, Shinichiro Nagahiro, Toshiyuki Ikai, Madoka Nakayama, Shuta Noro (National Institute of Technology, Sendai College, Japan), Tetsuya Uchimoto (Tohoku University, Japan), Jean-Paul Rieu (Université Claude Bernard Lyon 1, France)
- OS20-4 **EMAR Measurements of a Carbon Steel Thinning in a Corrosive Environment**
18:10-18:30 Gildas Diguët (Tohoku University / ELyTMaX UMI 3757, CNRS – Université de Lyon – Tohoku University, International Joint Unit, Tohoku University, Japan), Hina Miyauchi, Sho Takeda (Tohoku University, Japan), Tetsuya Uchimoto (Tohoku University / ELyTMaX UMI 3757, CNRS – Université de Lyon – Tohoku University, International Joint Unit, Tohoku University, Japan), Nicolas Mary (ELyTMaX UMI 3757, CNRS – Université de Lyon – Tohoku University, International Joint Unit, Tohoku University, Japan), Toshiyuki Takagi (ELyTMaX UMI 3757, CNRS – Université de Lyon – Tohoku University, International Joint Unit, Tohoku University, Japan / Tohoku University, Japan)

- OS20-5 **Low-Field Modeling of Heusler MultiPhysic Memory Alloys**
 18:30-18:50 Mickaël Lallart (Tohoku University, Japan / INSA Lyon, France / ELYTMAX UMI 3757, CNRS – Université de Lyon – Tohoku University, International Joint Unit, Tohoku University, Japan), Hiroyuki Miki (Tohoku University, Japan), Linjuan Yan (Tohoku University / ELYTMAX UMI 3757, CNRS – Université de Lyon – Tohoku University, International Joint Unit, Tohoku University, Japan), Gildas Diguët (ELYTMAX UMI 3757, CNRS – Université de Lyon – Tohoku University, International Joint Unit, Tohoku University, Japan), Makoto Ohtsuka (Tohoku University, Japan), Gaël Sebald (ELYTMAX UMI 3757, CNRS – Université de Lyon – Tohoku University, International Joint Unit, Tohoku University, Japan)
- OS20-6 **Role of Charge Carrier Transport on the Understanding of Polyurethane Actuation**
 18:50-19:10 Kaori Yuse, Gildas Coativy (Université de Lyon, France), Gildas Diguët (ELYTMAX UMI 3757, CNRS – Université de Lyon – Tohoku University, International Joint Unit, Tohoku University, Japan), Véronique Perrin, Laurence Seveyrat, Sébastien Livi (Université de Lyon, France), Jean-Yves Cavaillé (Université de Lyon, France / ELYTMAX UMI 3757, CNRS – Université de Lyon – Tohoku University, International Joint Unit, Tohoku University, Japan)
- October 30, 2020
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- OS20-7 **Hypoxia Triggers Collective Aerotactic Migration in *Dictyostelium discoideum***
 17:10-17:30 Olivier Cochet-Escartin (University Claude Bernard Lyon 1, France), Satomi Hirose, Kenichi Funamoto (Tohoku University, Japan), Christophe Anjard, Jean-Paul Rieu (University Claude Bernard Lyon 1, France)
- OS20-8 **Elucidation of the Pathophysiology of Skin Sodium and Water Metabolism**
 17:30-17:50 Asadur Rahman, Akira Nishiyama (Kagawa University, Japan), Thomas Elguedj (INSA Lyon, France), Jun Ishimoto (Tohoku University, Japan)
- OS20-9 **Effect of Micropores Patterning in Separated Plate on Protein Hindered Diffusion Phenomena**
 17:50-18:10 Atsuki Komiya, Ryo Watanabe, Yuki Kanda (Tohoku University, Japan), Juan F. Torres (Australian National University, Australia), Sébastien Livi (Université de Lyon, France)
- OS20-10 **Stability and Transition to Turbulence of Taylor Vortex in a Gap between Rotating Two Cones**
 18:10-18:30 Takahiro Adachi, Widiast Toshiharu, Kana Akinaga (Akita University, Japan), Atsuki Komiya (Tohoku University, Japan), Daniel Henry, Valéry Botton (Lyon University, France)

OS20-11 **Study of the Effect of Ammonia Addition on the Stabilization of a
18:30-18:50 Non-premixed Methane Jet Flame in an Air Coflow.**

Sophie Colson (Université Claude Bernard Lyon 1, France / Tohoku University, Japan), Manuel Kuhni, Cédric Galizzi, Dany Escudié (Université Claude Bernard Lyon 1, France), Hideaki Kobayashi (Tohoku University, Japan)

OS20-12 **Coupled Computing of Fluid-Structure Interaction Problems for Multiphase
18:50-19:10 Energy Systems**

Jun Ishimoto (Tohoku University, Japan), Thomas Elguedj (INSA de Lyon, France)