

2024 Microfluidic & biodevices Workshop

June 14th, 2024, P. Alnot Room (4A-014),
Campus ARTEM, Nancy, France



	Session 1: 10:00 -12:00 (Moderator: Prof. Halima ALEM-MARCHAND)
	10:00-10:40: Miniaturized Wearable, Implantable and Self-powered Electrofluidic devices for Multi-domain Sensing Applications Prof. Sanket GOEL, IEEE Sensors Distinguished Lecturer MEMS, Microfluidics and Nanoelectronics (MMNE) Lab, Department of Electrical and Electronics Engineering Birla Institute of Technology and Science (BITS) Pilani, Hyderabad Campus, Hyderabad, India
	10:40-11:10: When microfluidics meets biology: on-chip immobilization of proteins for cryo-EM imaging Dr. Norbert DUMAS SMH Group (Systèmes et Microsystèmes Hétérogènes) ICUBE, Université de Strasbourg, CNRS, INSA
	11:10-11:40: Organs on a chip: a new revolution for translational research Dr. Anthony TREIZEBRE Associate Professor in BioMEMS Group Institut d'Electronique, de Microélectronique et de Nanotechnologies (IEMN UMR 8520), Villeneuve d'Ascq, France
	11:40-12:00: SAW devices for DNA duplication (PCR) Clemence BISCARA Micro and Nanosystems Group Institut Jean Lamour (UMR 7198) Nancy, France
12:00-14:00	Lunch and IJL Facilities visit
	Session 2: 14:00-15:30 (Moderator: Dr. Sami HAGE-ALI)
	14:00-14:40: Soft Printed Biomedical Sensors and Electronics for Human Healthcare Dr. W. Hong YEO, Director of CHCIE and MBS, Georgia Institute of Technology Associate Professor and Woodruff Faculty Fellow; George W. Woodruff School of Mechanical Engineering Wallace H. Coulter Department of Biomedical Engineering; IEN Center for Human-Centric Interfaces and Engineering (CHCIE); IMat-IBB Materials for Biomedical Systems Initiative (MBS)
	14:40-15:10: Microelectrode arrays and microfluidics for the recording of reconstructed neuronal junctions and organoids Dr. Benoît CHARLOT (DR CNRS), Head of Biomicrofluidics and Biophotonics research Team Matériaux, Micro et Nanodispositifs (M ² N) Group, Institute of Electronics and Systems (UMR 5214), University of Montpellier - CNRS, Montpellier, France
	15:10-15:30: Lab-on-a-Chip with Integrated Elastic Metamaterials for Biosensing Jessica MONALDI Micro and Nanosystems Group / Metamaterials & Phononic Group Institut Jean Lamour (UMR 7198) Nancy, France
15:30-16:00	Coffee Break
	Session 3: 16:00-17:40 (Moderator: Dr. Cécile FLOER)
	16:00-16:30: Engineering of flexible microdevices for mechanical characterization and stimulation of microtissues Prof. Charles BAROUD, MELCART ERC Advanced Grant Laureate Head of the microfluidics Group, Laboratoire d'Hydrodynamique Ladhyx; Ecole Polytechnique, Palaiseau, France
	16:30-17:00: Lab on chip developments for the analysis of complex fluids Prof. Thérèse LEBLOIS, Deputy Director of FEMTO-ST BIND Group, FEMTO-ST Institute, Besançon, France
	17:00-17:40: Fast Acoustofluidics and Acoustic Streaming Prof. James FRIEND, Head of Medically Advanced Devices Laboratory at the UCSD Professor in both the Department of Mechanical and Aerospace Engineering at the Jacobs School of Engineering, and the Department of Surgery, at the School of Medicine, University of California at San Diego, USA.

Registration: <https://forms.office.com/Pages/ResponsePage.aspx?id=zxaHFbJGykiMScE7Z-V188lib1FqSVtMo6B5eho3IQVUNjhQNlpSRKJ2TTJSQzdlQjRUVlQ1WEIZUy4u>
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