

International Workshop on
**Micro- and Nano-Technologies for Energy, Bio-engineering
and Bio-sensing with JETMeE Workshop**

LIMMS/CNRS-IIS, LAAS-CNRS & Partners
13th -14th June 2022, Toulouse, France

Ver. 10052022

13th of June 2022

- 9:00 - 9:30 **Coffee and Welcome**
- 9:30 - 9:35 **Opening Talk**
Dr Mohamed Kaaniche, Director of LAAS
- 9:35 - 10:05 **LIMMS General Presentation**
Dr S. Volz and Prof. M. Nomura, Directors of LIMMS
- 10:05 - 10:15 **LIMMS Kiko & C2C Presentation**
Prof. BJ. Kim, Director of LIMMS Kiko
- 10:15 - 10:45 **LAAS General Presentation**
Dr Mohamed Kaaniche, Director of LAAS
- 10:45 - 11:00 **Coffee Break**
- 11:00 - 12:30 **Energy Related Activities**
 1. General Presentation, Prof. M. Nomura and Dr S. Chambon, LIMMS
 2. Lab Activities in LIMMS: Hirakawa, Takahashi, Toshiyoshi, and Nomura Labs.
 3. Nanothermite materials to drive high-energy actuations in microsystems, Dr C. Rossi, LAAS
 4. III-V semiconductor-based photovoltaics at LAAS, Dr Ines Massiot, LAAS
 5. Recent advances on microsupercapacitors as miniaturized energy-storage components., Dr David Pech, LAAS
- 12:30 - 14:00 **Lunch**
- 14:00 - 15:30 **Sensor Related Activities**
 1. General Presentation, Prof. T. Minami and Dr C. Clement, LIMMS
 2. Lab Activities in LIMMS: Someya, Kawakatsu, BJ Kim, Minami, and Mita Labs.
 3. Bioelectrochemical sensors for the liquid phase analysis, Dr Pierre Temple, LAAS
 4. Batch fabrication of ultrathin neural probes with electrochemical detection of neurotransmitters, Dr Christian Bergaud, LAAS
 5. Microwaving biological cells: an analytic non-invasive and non-destructive cellular analysis. Dr Katia Grenier, LAAS
- 15:30 - 16:30 **Poster Session & How to Join LIMMS**
All LIMMS professors

End of the First Day

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9:00 - 9:30 **Coffee and welcome**

9:30 - 11:00 **Bio Engineering Activities**

1. General Presentation, Prof. Y. Matsunaga and Dr A. Bancaud, LIMMS
2. Lab Activities in LIMMS: Ikeuchi, Kohno, Sakai, Someya, and Takeuchi Labs.
3. Cells under pressure: impact of spatial confinement on cell proliferation, Dr Morgan Delarue, LAAS
4. Development of 3D microenvironment models for tissue engineering, Dr Laurent Malaquin, LAAS
5. Neuron-on-chip for high resolution electrophysiology, Dr Guilhem Larrieu, LAAS

11:00 - 11:20 **Coffee break**

11:20 - 12:20 **Molecular Nano Technologies**

1. General Presentation, Prof. SH Kim and Dr A. Genot, LIMMS
2. Microfluidics to probe (bio)mimetic systems, Dr Pierre Joseph, LAAS
3. Molecular modeling for DNA technologies, Dr Marie Brut, LAAS

12:20 - 13:30 **Lunch**

13:30 - 16:30 **Laboratories Visits at LAAS**

(Split into 2 or 3 groups)

17:00 - 18:30 **Cocktail**

All Participants of the workshop

End of the Workshop

