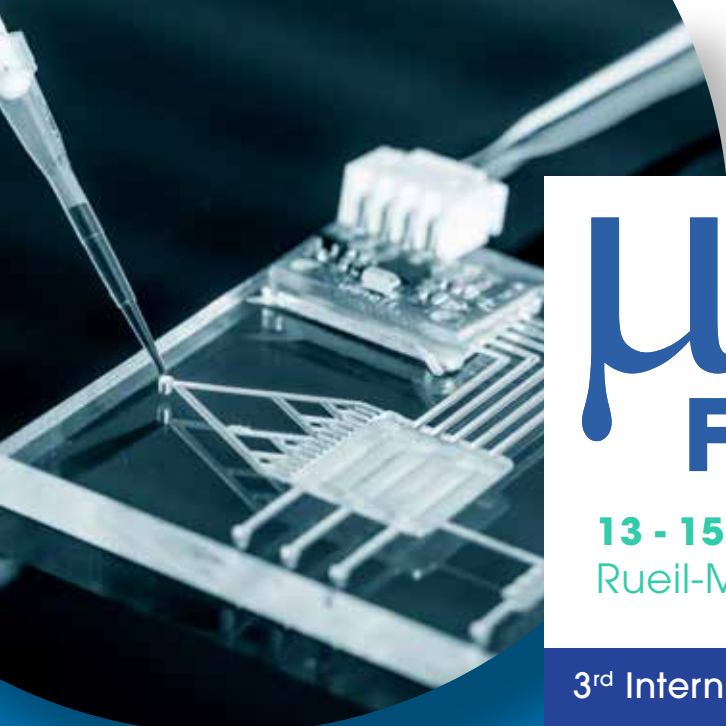




# $\mu$ FLUIDICS

**13 - 15 November 2024**

Rueil-Malmaison - France

3<sup>rd</sup> International symposium

ifpen  
Les rencontres  
scientifiques



INSTITUT  
PIERRE-GILLES  
DE GENNES  
Pour la microfluidique





- Energy production, recovery & storage: identifying and understanding limiting phenomena
  - Batteries
  - H<sub>2</sub>
  - Heat
  - Salinity gradient
  - etc.
- Industry decarbonization
  - CO<sub>2</sub> storage
  - H<sub>2</sub>
  - Process optimization/intensification
  - Energy efficiency
  - etc.
- Water resources management
  - Pollutant identification
  - Water pollution remediation
  - Water quality monitoring (urban and industrial networks)
  - Level control
  - etc.

### Topics: microfluidics for understanding and microfluidics as tools/sensors

- Tools: HP-HT, sensors, analysis, on-board sensors (latent heat, piezo, etc.)
- Understanding
- Reaction monitoring



Drawing inspiration from the living world via bio and geomimicry to solve these challenges!

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