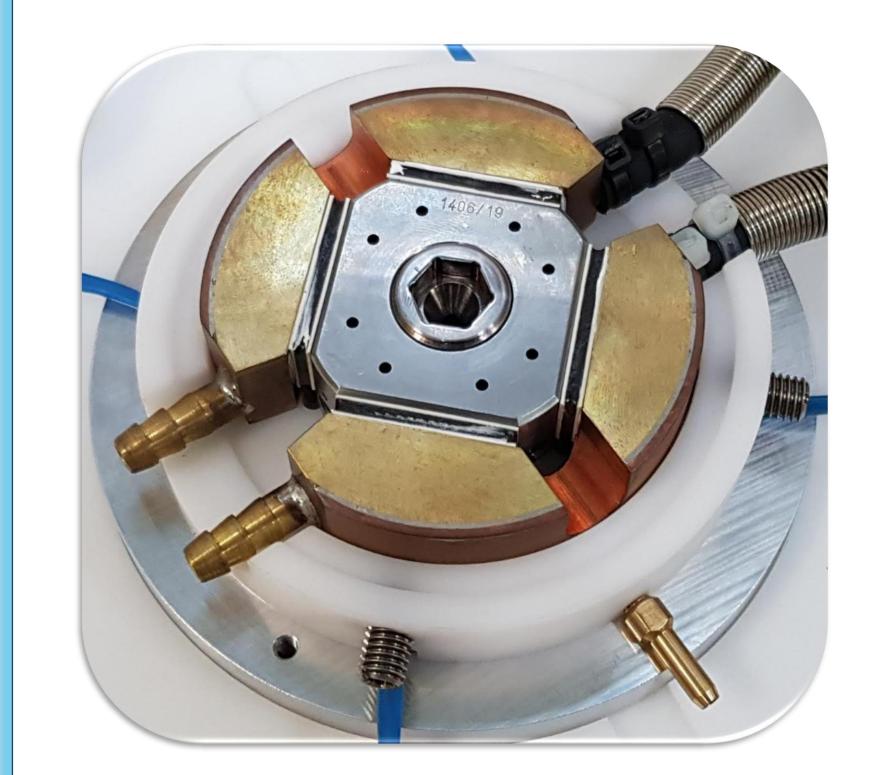


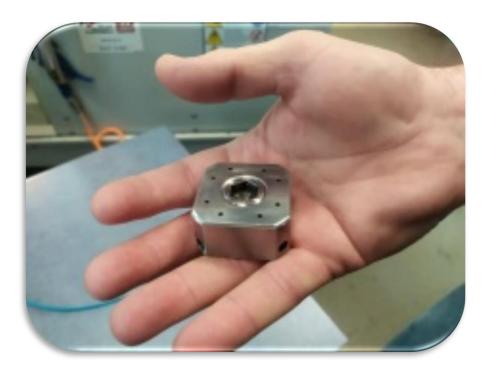
50 years of the Institute of High Pressure Physics Polish Academy of Sciences Highlights in III-V semiconductors, THz physics and nanomaterials Anniversary Symposium "Unipress 50"

Pressure cell for soft matter microscopy and spectroscopy

J. Arabas, R. Okoniewski, H. Parashar, J. Szczepek, J. Zwoliński

Very small rectangular pressure cell





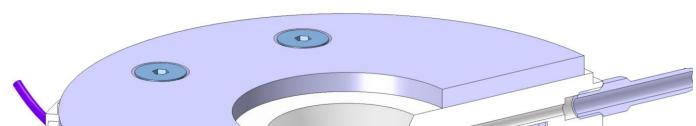


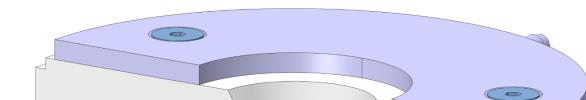
Originally developed for microscopic observation of phase transition of bio-materials at low temperature under European project SAFE ICE (2005).

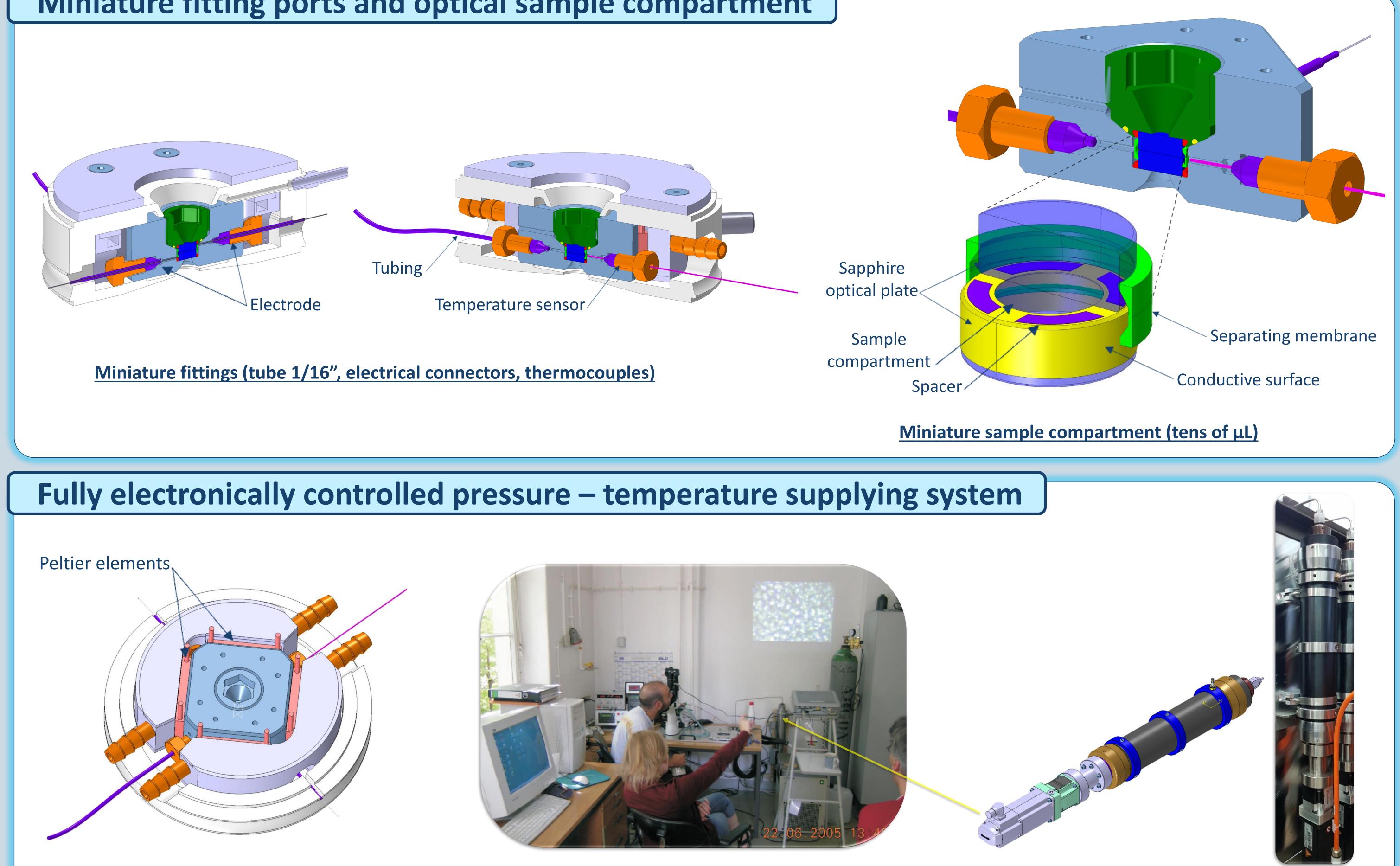
The upgraded cell (2020) became useful for both microscopy and spectroscopy of soft matter.

The further development of the cell is foreseen for SAXS measurements.

Miniature fitting ports and optical sample compartment







Smart heating/cooling system with Peltier elements

Visualization of phase transition in foods (TU Berlin, Germany, 2005)

Electro-mechanically driven Micropump allows pressure-temperature sweep with bar per bar precision

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