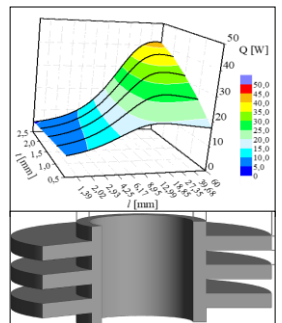
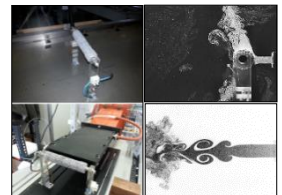
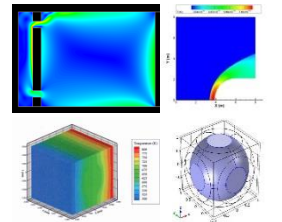




# Thermodynamics and Heat Transfer

## Research Topics

- Theoretical models for the evaluation of thermophysical properties of porous media and composite material.
- Experimental investigation of thermophysical properties of porous media, liquids, composite material, foods, nanofluids with thermal probe method, dual probe method and flash method.
- Heat transfer and thermo-fluid dynamics in terrestrial and extraterrestrial soils.
- Thermo-fluid dynamics of buildings.
- Free convection in porous materials.
- Experimental and numerical thermo-fluid dynamics of free and impinging jets.
- Passive and active techniques to enhance convective heat transfer: extended and treated surfaces, lattice frame materials, fluid vibrations and compound solutions.



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