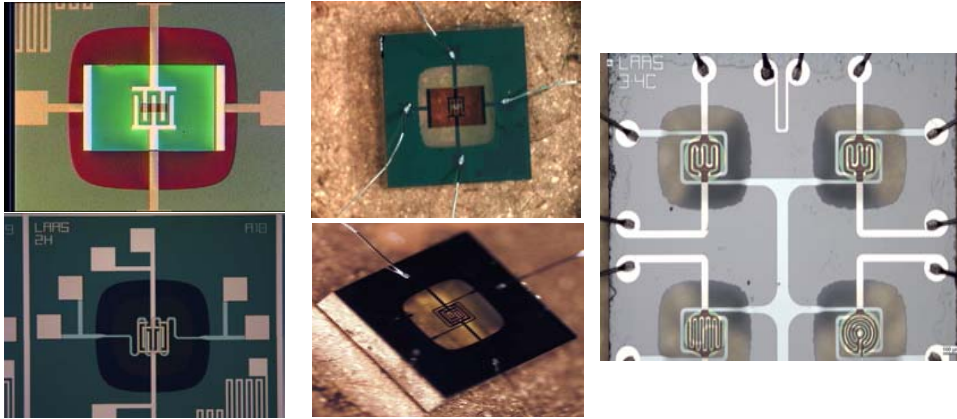


# Gas Sensor Activities at LAAS-CNRS

Ph. Ménini (MCF;100%), A. Martinez (Pr;10%) - E. Scheid (CR1;10%) - H. Chalabi (doct3) - C. Tropis (doct2) – P. Yoboue (doc1)

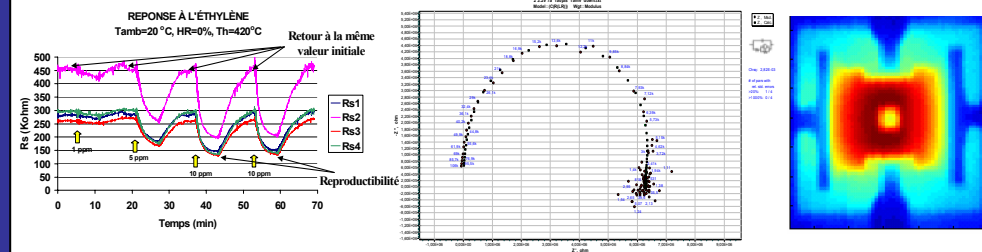
## Microtechnology

Design et Realisation of micro hotplate for Gas sensors



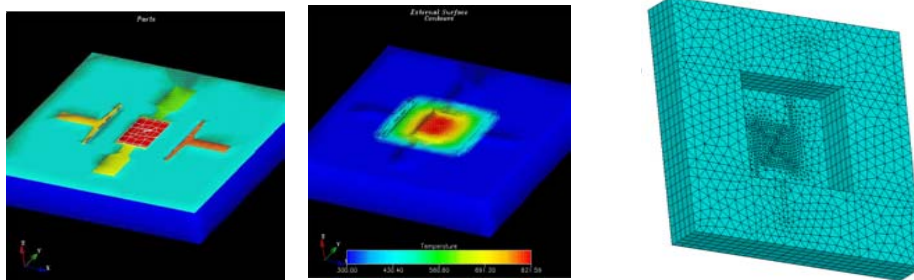
## Characterisations

- Rs(t)
- Impedance spectroscopy under controlled atmosphere
- Thermal Characterisation : IR Camera



## Modelling - Simulation

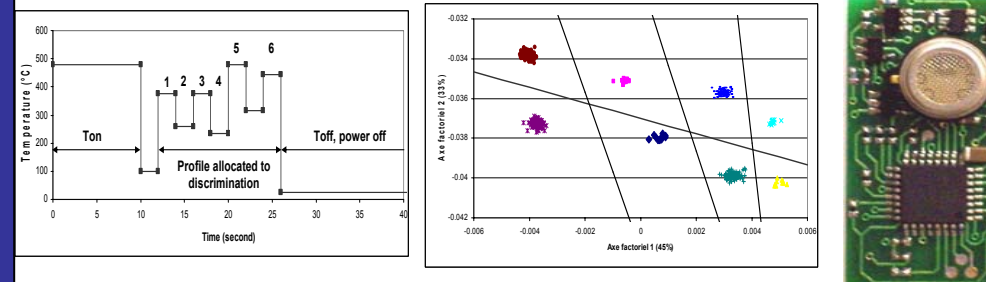
Electro-thermal -Thermo mechanical modelling  
(ANSYS → Comsol Multiphysics)



## Operating mode

## Data treatment and integration

Fonct. at pulsed  $T^{\circ}$  + mathematical data treatment (FDA, NN)



LAAS

Laboratoire d'Analyse et d'Architecture des Systèmes

Contact : [menini@laas.fr](mailto:menini@laas.fr)

Tél.: 05 61 33 62 18