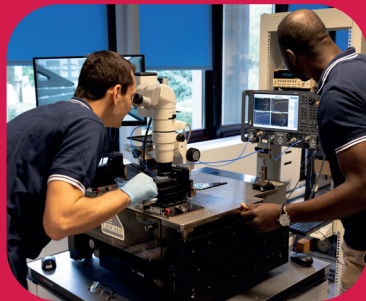




WELCOME

Wallonia Electronics and Communications Measurements

WHAT WE OFFER : SERVICES & EXPERTISE

- Service & expertise in electro-magnetic characterization of materials, devices, sensors, circuits, systems
- Access to characterization infrastructure / Equipment renting accomplished by training (if necessary)
- Measurement campaign realized by UCLouvain staff / PCB assembly and prototyping
- Technical advice and consultancy / Training for R&D engineers from industry
- Collaborative research



Materials, devices and sensors

- Multi-port and multi-parametric (electro-mechanical, optical stimuli, gases, etc.) characterization
- From DC to 125 GHz
- Temperature range: 4 - 600K
- Small-signal and nonlinear regimes



Radar and wireless telecommunications

- Broadband signal generation and signal analysis capabilities
- Using variety of Vector Network and Spectrum Analysers
- In a free-space, waveguide and coax, multi-path or anechoic environment
- Anechoic chamber: 0.4-40 GHz & 60-90GHz



Analog/digital circuits and systems

- μ controllers, smart cards, RFIDs, FPGAs, etc.
- Using ultra low current probes, mixed-signal and real-time oscilloscopes, analog waveform and digital pattern generators, etc.



Sustainability

- Sustainability considerations for materials/process and circuits/systems design
- Analysis of environmental impact of microelectronics systems/circuits/sensors
- Appropriate design solutions, environmental driven
- Life Cycle Assessment (LCA)



Remarkable equipment

- Probe stations: MPI : 300mm (20-300°C); Lakeshore: 51mm (4-500K)
- ALFNA noise analyzer (1/f, RTN)
- Broadband VNA: 900 Hz-125 GHz
- VDI Frequency extenders 110-170 GHz & 220-330 GHz
- Polytec vibrometer MSA-500: In-plane, Out-of-Plane and interferometry
- Microsanj: submicron thermal imaging with ultrafast transient response



Collaborative research

- Support to the research projects submission and realization
- Support to spin-offs, SMEs, knowledge transfer
- Links with other academic labs via SiNANO Institute joint platforms: www.sinano.eu

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Picture credits : Yvan Flamant

www.uclouvain.be/welcome