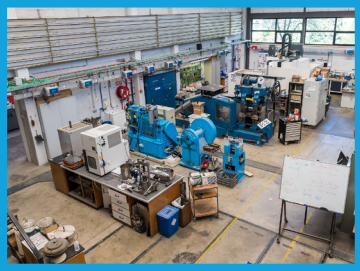
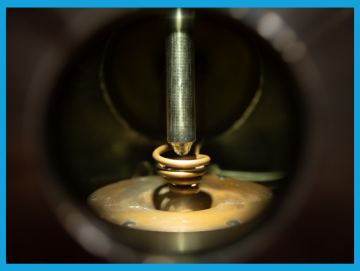
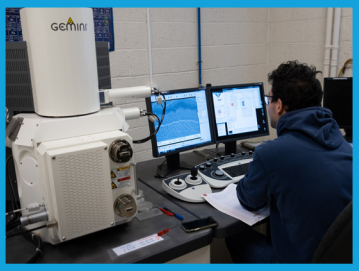
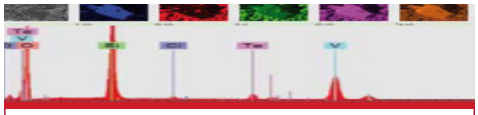




LACaMi : Analysis, characterization, and processing technical platform

WHAT WE OFFER : services and expertise

- Characterization / tests / analyses carried out by qualified UCLouvain members
- Chemical analysis of solid, liquid, gas in material and chemical process
- Analysis of fracture mechanisms
- Processing of metallic materials, ranging from casting, atomization, 3D printing, heat treatments
- From nm to mm characterization thanks to microscopy and tomography

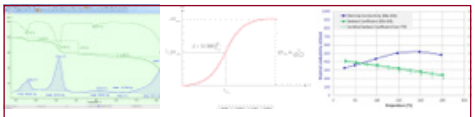


Chemical analysis

- Infrared carbon/sulfur analyzer sylab 1600 F
- Inductively Coupled Plasma ICP/OES Agilent 5100
- Zeiss Ultra 55 SEM with Bruker EDS chemical analyzer
- Gas/liquid chromatography

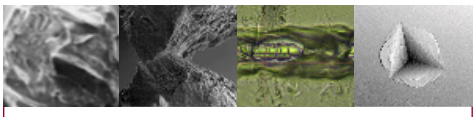
Metallography, morphology and defect analysis

- Zeiss Ultra 55 SEM
- Zeiss Supra 55 SEM with EBSD
- Philips CM30 TEM
- Bruker XRD D8 Advanced and Discover
- Light microscopy
- RX Solution micro-CT EasyTom S & XL
- Optical 3D microscope



Thermal properties measurements

- Netzsch STA449F3 DSC/ATG 1600°C
- Netzsch SBA458 Seebeck coefficient and electrical conductivity measurements
- Netzsch LFA467 thermal conductivity - thermal diffusivity measurements
- Dilatometry



Micromechanical testing

- Zeiss Ultra/Supra 55 SEM EBSD Camera and *in-operando* Mechanical testing machines Micro
- Indenter EMCO Durascan 70G5
- Nano indenter Agilent G200
- Bruker UTM3 tribometer
- Micro-mechanical test in micro-CT

Metal processing

- 2kg/20 kg casting furnaces
- Hot/cold rolling
- Arcast 80g/200g arc melting furnaces
- Arcast Powder atomiser
- Metal 3D printing
- Electro Spark Deposition ESD
- Quenching and deformation dilatometer

CONTACT

Platform manager
Valentin Marchal-Marchant
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+32(0)10/47.24.57

Investment in progress

- TEM
- Ultrasonic atomiser
- 20 Kelvin mechancal testing

www.uclouvain.be/lacami

Picture credits : Aurore Delsoir - Yvan Flamant - LACaMI

LACaMi Laboratoire d'Analyse, Caractérisation et Mise en œuvre

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