

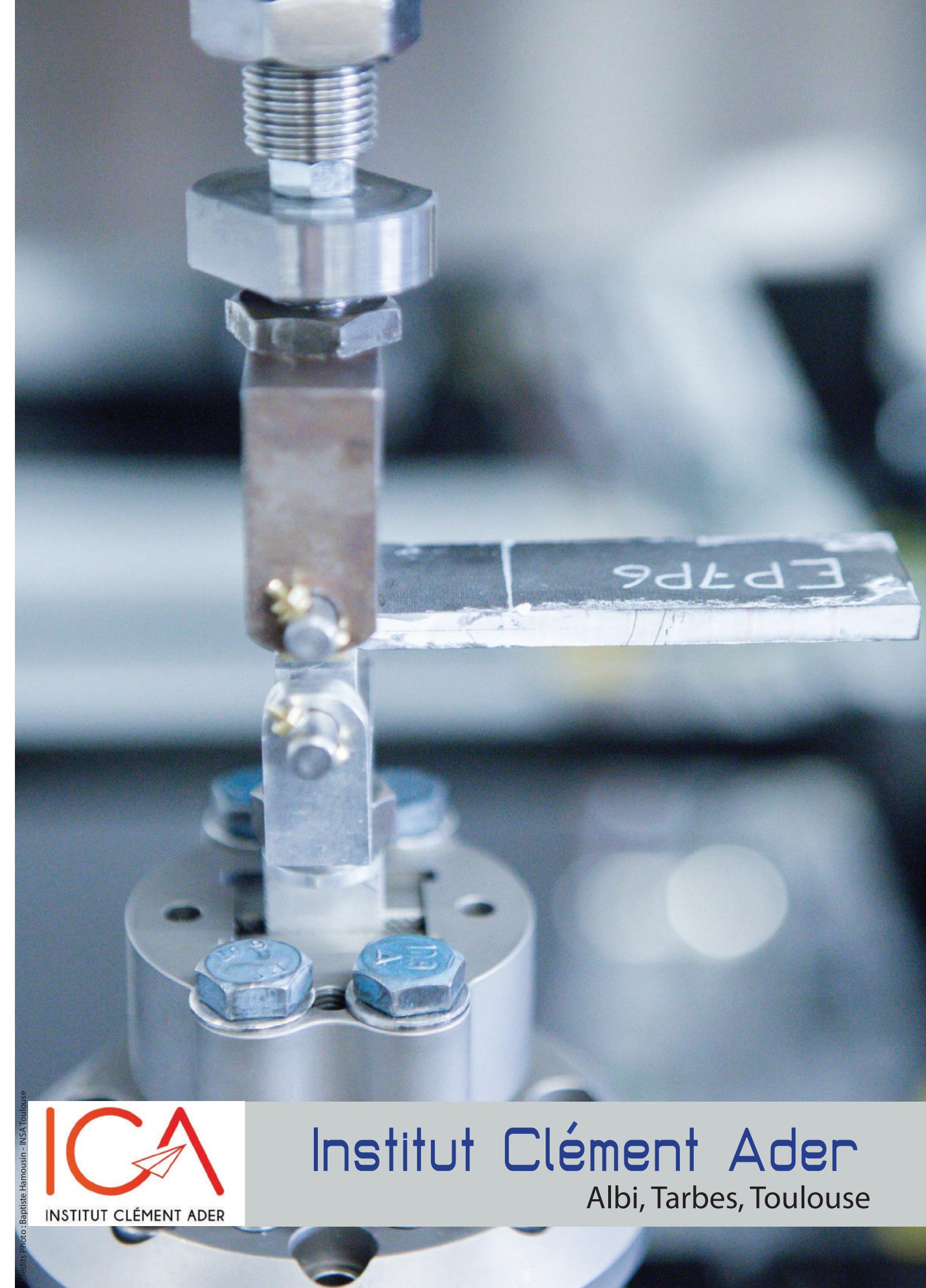
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Crédit Photo : Baptiste Hamouin - INSA Toulouse



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Composite Materials and Structures



- » Structures, Impact, Modelling, Machining of composites
- » Materials @ structure scale, Manufacturing, Processes



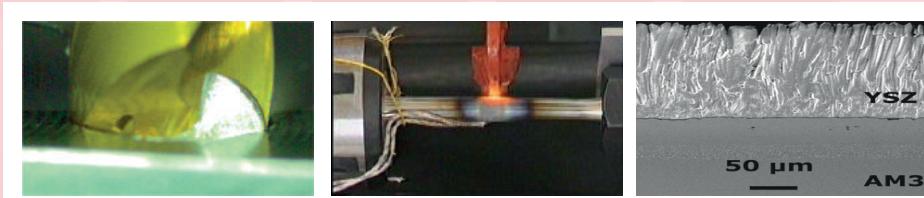
ICA is a research lab studying

- mechanics of materials,
- manufacturing processes,
- structures and systems,

with a particular attention paid toward aeronautics and space.

Our work generally concerns process modeling, devising instrumentation and studying durability. We regularly combine experiment with modelling.

Surface, Machining, Materials and Tools



- » Functionnal properties and Microstructural relationships of advanced materials
- » Fatigue, Wear Damage, Modelling
- » Machining and Metal forming

MSC

Matières et Structures Composites

SUMO

Surface, Usinage, Matériaux, Outilage

Assemblies
Transverse axes

Machining of Multi-Materials Stacks

MS2M

Modélisation des Systèmes Mécaniques et Microsystems

MICS

Métrieologie, Identification, Contrôle et Surveillance

TEAM

100 PhD students
100 permanent scientists
30 technical staff
10 post-doctoral scientists

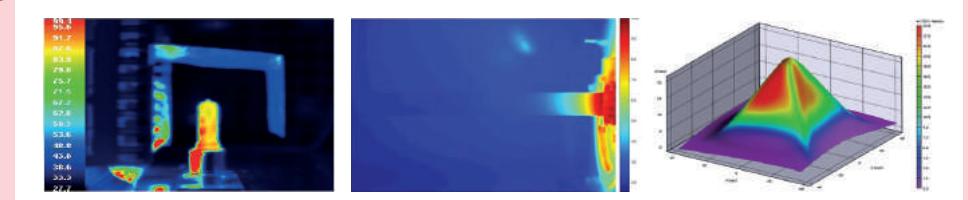


- » Dynamic behaviour of structures
Preliminary design
- » Fluidic Microsystems
Modelling under deterministic or uncertain environment



- Testing labs
- Manufacturing facilities
- House Softwares
- Plateforms :
MIMAUSA, STIMPACT

Metrology, Identification, Control and Monitoring



- » Identification and Control of thermal and mechanical properties
- » Innovative optical methods for dimensional and thermal metrology