

REGISTRATION FEES

	Until 27/05/2016	After 27/05/2016
Student	480 €	600 €
Academic	900 €	1.080 €
Industrial	900 €	1.080 €

All tax included (20% VAT)

In order to ensure and encourage interactions, the number of attendees is limited to 30.

Registration fees includes:

Admission, participation to courses & Coffee breaks, lunches, reception and conference dinners

To register or if you have any other questions about the training, please contact Inel at

+33(0)2 3880 4545

+33(0)2 3880 0814

eric.berthier@thermofisher.com

Attendees are required to make their own accommodation and travel arrangements. A list of hotels and an access map are available on request.

GENERAL INFORMATION

Venue

The workshop will take place in Caen, France in the IUT, UCBN, CRISMAT ENSICAEN facilities

Access

Caen is located in Normandy at 250 km west of Paris. More details are available in the registration form.

Organizers



ThermoFisher
SCIENTIFIC

Thermo Fisher Scientific
INEL S.A.S.

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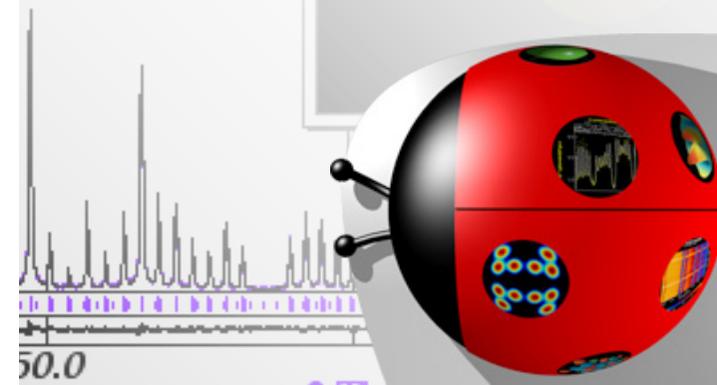
Thermo
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WORKSHOP

Combined Analysis Using X-ray and Neutron Scattering

June 27th - July 1st, 2016
Caen (France)

*5 days training on the aspect of
Combined Analysis by X-ray and
Neutron Scattering and introduction to
the MAUD software*



OBJECTIVES

This international school will cover many aspects of the "Combined Analysis" by X-ray, neutron and electron scattering and X-ray fluorescence applied to material science, ranging from fundamental requirements to technically relevant industrial and academic applications. The combined analysis method has been developed over the years starting from the Rietveld method, extending it to most of the powder diffraction analyses and more recently incorporating, on the same idea, other techniques such as reflectivity, X-ray fluorescence and electron diffraction.

The aim is to give students as well as academic and non-academic researchers the necessary information and tools to be able to characterise their own materials and samples using the combined analysis method and the software MAUD. The characterisation involves obtaining information on the structure, microstructure, phase and elemental content, texture, stress in different kind of samples and structures including: thin films, bulk materials, anisotropic materials, poly-phased materials, nano-materials, etc.

The objective is to bring together participants from various fields and to provide an opportunity to discuss individual interests and experience.

TOPICS

Each type of analysis will be considered individually for the proper technique and then integrated into a combined analysis program. Some specific examples will be studied using X-ray, electron and neutron experimental data.

- Diffraction technique, an overview
- Crystallographic Texture Analysis
- Residual Stress Analysis
- Rietveld analysis
- Reflectivity analysis
- Phase analysis
- Line broadening analysis
- The combined solution
- XRD and XRF combined analysis
- Electron Microscopy
- The MAUD software

PRE-REQUISITES

Necessary pre-requisites:

- Basic knowledge of crystallography and diffraction techniques
- Good practice in the use of computers
- If possible, bring your laptop for the practical sessions

MAUD

Materials Analysis Using Diffraction
<http://www.ing.unitn.it/~maud/>

Previous Workshops

<http://www.ecole.ensicaen.fr/~chateign/formation/>

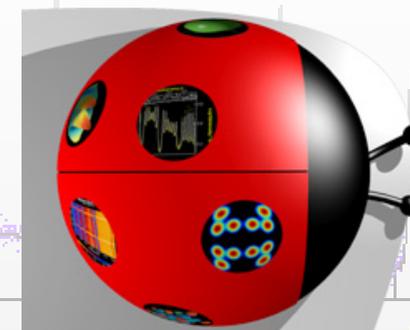
SPEAKERS

Daniel Chateigner, Caen (France)

Luca Lutterotti, Trento (Italia)

Christophe Fontugne, Artenay (France)

Magali Morales, Caen (France)



REGISTRATIONS

You are interested in this workshop?

Please email INEL with subject

«MAUD workshop» at

eric.berthier@thermofisher.com

Registration deadline

10/06/2016

