Important dates

January 2018	Call for papers
6th April 2018	Abstract submission
18th May 2018	Notification of acceptance
22th June 2018	Early bird registration deadline
27th August 2018	Symposium and training registration deadline
31st August 2018	Poster reception deadline
16th November 2018	Full papers reception

Abstracts

Extended abstract of 2 pages.

There will be two types of presentation:
– talk (20mn)
– poster (format A0 – 841 x 1189 mm).

Posters will be introduced by the chairman in 5min during the plenary session before the poster session.

Contact

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www.aimontefiore.org/INDENTATION 2018

Tel: +32 (0) 4 222 29 46

Symposium venue

**Exèdre Dick Annegarn B8
Quartier Agora, l'Agora 1
Liège, 4000 BELGIUM**

Rates until 22nd June 2018*:

- Symposium registration (including gala dinner):
  - SF2M non members: 350€
  - SF2M members: 300€
  - Students: 150€

- Trainings:
  - Students and academics: 50€
  - Industrials: 1000€ (including symposium registration)

Instrument demonstration: Please contact us at c.dizier@aim-association.org

After 22nd June 2018, an extra cost of 50 € will apply.

Organizers

Université de Liège

CRM GROUP

UMONS Université de Mons

UCL Université catholique de Louvain

Sponsors

SF2M Société Française de Métallurgie et de Matériaux

AIM

* These rates might be slightly modified

Indentation 2018

Groupe Indentation Multi-Echelle Symposium

GIME
Groupe Indentation Multi-Échelle

Call for papers

September 11-14 2018

Liège

Introduction

The symposium "Indentation 2018" from Groupe Indentation Multi-Echelle (GIME) is addressed to academics and industrials concerned with mechanical characterisation issues with instrumented indentation at different scales.

The goals of this symposium are to communicate on recent developments in indentation in terms of analysis and simulation, to show the extent of the derived properties and to present indentation applications (fracture, mechanics, constitutive laws, plasticity, fatigue, creep, ...). This will be done by sweeping examples of studies on heterogeneous materials, porous ceramics, coated materials or materials with gradient properties.

In general, this conference aims to better understand the indentation, but also to share this great tool for characterizing between the scientific and industrial communities.

Publications

Papers, after the acceptance by the scientific committee, will be published in the "Matériaux & Techniques" magazine that deals with industrial materials, their technical implementation and use. The journal, indexed in Scopus (Impact Per Publication = 0.265) is published by EDP Sciences.
http://www.mattech-journal.org/

Languages

Presentations, exhibitions and related activities will be preferentially in English, with always English slides.

Organization Committee

Université de Liège:
DUCHENE Laurent, HABRAKEN Anne-Marie, MERTENS Anne, RUFFONI Davide, TCHUINDJANG Jérôme Tchoufang.

CRM Group, Liège:
LIBRALESSO Laure, MERCIER David.

Université Catholique de Louvain:
COLLA Marie-Stéphane, FAVACHE Audrey, RYELANDT Sophie.

Université de Mons:
BONIN Luiza

AIM, Liège:
DELVILLE Michèle, DIZIER Céline

Scientific Committee

BARTHEL Etienne (ESCPI, Paris Tech)
BENAYOUN Stéphane (LTDS, Ecully)
CHICOT Didier (LML, Villeneuve d'Ascq)
DUCHENE Laurent (ULG, Liège)
GUIN Jean-Pierre (LGCGM, Rennes)
HABRAKEN Anne-Marie (ULg, Liège)
KERMOUCHE Guillaume (LGF, Saint-Etienne)
KERYVIN Vincent (LIMATB, Lorient)
LE BOURHIS Eric (P. Futuroscope, Chasseneuil)
LOUBET Jean-Luc (LTDS, Ecully)
MAUVOISIN Gérard (LGCGM, Rennes)
MONTAGNE Alex (MSMP, Lille)
PARDOEN Thomas (UCL, Louvain-La-Neuve)
PELLETIER Hervé (ICS, Strasbourg)
RUFFONI David (Ulg, Liège)
VITRY Véronique (Université de Mons)

Trainings

11/09/2018 (afternoon)

→ **Indentation and modelling (4h)**
- o *Goal of indentation ? Which properties to obtain and how to do ?*
- o *Results analysis ? Analytical models vs numerical modelling ?*

12/09/2018 (morning)

→ **Indentation and fracture : theory and numerical modelling (4h)**
- o *Fracture during indentation ?*
- o *Numerical simulations ? Use of cohesive zone ?*

Topics

- ➢ **Fundamentals aspects of indentation and derived properties**
- ➢ **Polymers, bio-materials and biological materials**
- ➢ **Metals and crystal plasticity**
- ➢ **Heterogeneous materials (concrete, composite materials, materials with gradient properties, ...)**
- ➢ **Thin films, coatings, multilayer, ...**
- ➢ **Simulation and modelling**
- ➢ **Extreme conditions: AFM contact, in situ nanoindentation, in temperature, with humidity, ...**
- ➢ **Industrial applications**