



### **Workshop on novel developments and detectors for nano-imaging and nano-analysis**

Date: 09<sup>th</sup> – 10<sup>th</sup> October 2023

Venue: Conference room Ellipse, Le Fonds Belval, 7, Ænnert den Héichiewen,  
4361 Esch-sur-Alzette, Luxembourg

The workshop is organized as part of the [FIT4NANO COST Action](#), WG1-Tool Development, dedicated to novel instrumentation and methodologies developments for nano-imaging and nano-analysis.

While this workshop will cover all aspects of instrument development related to focused ion beams, a major focus will be on advanced charged particle detectors with better sensitivity, higher spatial resolution, higher dynamic range, longer lifetime, lower cost, etc., for advanced nano-analytical instruments.

#### **Topics**

- Novel instrumentation and methodology for focused ion beam technology in the fields of nano-imaging and nano-analysis
  - Novel ion source concepts and technology
  - Ion optical designs
  - Novel spectrometers
- State-of-the-art detectors for ion/electron beam analytical instruments

#### **Organizers:**

Dr. Hung Hoang, Luxembourg Institute of Science and Technology

Dr. Tom Wirtz, Luxembourg Institute of Science and Technology

Dr. Gregor Hlawacek, chair of the COST Action FIT4NANO

#### **Partners**

COST Action FIT4NANO

#### **List of invited speakers**

Dr. Pasqual Bernhard, Surface Concept GmbH

Prof. Ron Heeren, Maastricht MultiModal Molecular Imaging Institute – M4I,  
Maastricht University

Prof. Anjam Khursheed, Polytechnic University of Milan

Dr. Serge Duarte Pinto, Photonis

Dr. Julian Schmehr, X-spectrum GmbH

### Preliminary program

<b>09<sup>th</sup> October 2023</b>	
12 : 00	Registration & snack
13 : 00	Opening
13 : 05	Invited and contributed presentations
14 : 55	Coffee break
15 : 25	Invited and contributed presentations
17 : 15	Visit of LIST
<b>10<sup>th</sup> October 2023</b>	
09 : 00	Invited and contributed presentations
10 : 50	Coffee break
11 : 20	Invited and contributed presentations
12 : 40	Lunch
14 : 00	Invited and contributed presentations
15 : 40	Closing
16 : 00 - <b>optional</b>	Guided tour of Belval blast furnace for those who are interested in (registration to the organizer is required)

### Abstract submission

The maximum length of the abstract is two pages, including figures and references, in either Word or pdf format. The abstract should be submitted by email to [hung.hoang@list.lu](mailto:hung.hoang@list.lu) by Friday, 08<sup>th</sup> September 2023

More details on the registration, abstract template, venue, hotel and travel can be found in the [workshop's website](#).