Additive Manufacturing of 3D Microfluidic MEMS for Lab-on-a-Chip applications

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M3DLoC Project Open Day 2020

Workshop & Exhibition

Announcement

Crowne Plaza Hotel

Brussels - Belgium

23rd January 2020

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Crowne Plaza, Brussels
23rd January 2020

The **M3DLoC** Project is delighted to announce their 1st Open Day Workshop & Exhibition

Location: Crowne Plaza Hotel, Brussels, Belgium

Date: 23rd January 2020

We would like to invite you to come as our guest and participate in a workshop related to Additive Manufacturing of 3D Microfluidic MEMS for Lab-on-a-Chip applications- **M3DLoC Project.** This will be a great opportunity to meet the H2020 **M3DLoC Project** partners, learn about their products, services and the new developments of this project.

The **M3DLoC** is a 4-year project that started in January 2018 and it has been granted 7.9€ million from the EU Horizon 2020 framework programme. The work is carried out by an international consortium of 17 organisations led by the National Technical University of Athens.

The **M3DLOC** aims at the employment of multi-material 3D printing technologies for the large-scale fabrication of microfluidic MEMS for lab-on-a-chip and sensing applications. The concept is based on the combination of multimaterial direct-ink-writing method and an extrusion-based 3D printing pilot line, in order to fabricate microstructured detection devices with the ability to perform all steps of chemical analysis in an automated fashion.

The functionality of these devices are evaluated based on their ability to streamline all steps needed to obtain mobility and binding-based identity information in one continuous biochemical detection system. Optimum inline control systems will be incorporated in various stages of the fabrication process, to achieve precise control and repeatability. Microfluidic MEMS are increasingly recognized as a unique technology field for the development of biomedical devices (BioMEMS), due to their functional performance on the microscale, at the dimensions of which most physiological processes are operative. Applications near micro- and nanoscale are promising in the field of intelligent biosensors, where it enables the monolithic integration of sensing devices with intelligent functions like molecular detection, signal analysis, electrical stimulation, data transmission, etc., in a single microchip.

Already **confirmed speakers and guests** are coming from the following **companies**: Avanzare, Microliquid S.L., Elvesys, AltraTech Ltd, RayScan, VITO, IRES, BioG3D, Keralty, Cambridge Nanomaterials Technology Ltd, M-SOLV, RTE, Prysmian Group, Viscofan BioEngineering, enablingMNT / Microfluidic Association, AmpaSHIELD NV/SA; and Keralty, and the following **universities and research organisations**: National Technical University of Athens (NTUA), Fraunhofer ILT, University of Limerick, University of Strathclyde, University of Aveiro, LEITAT and EMPA, among others

Participation to this event is free but registration is required. If you are interested in attending, you could get more information and download the registration form: **www.M3DLoC.eu/workshops** or send an email to the Exploitation and Dissemination Management at: **info@M3DLoC.eu**

M3DLoC Project Open Day 2020

Venue Information

The M3DLoC Project Open Day 2020 is taking place at:

Crowne Plaza Hotel – Le Palace
Rue Gineste 3, Brussels,
1210 Belgium
https://www.crowneplaza.com/

The hotel is conveniently located in the city centre, next to the botanical garden and at only a 15 minutes' walk from the Grand Place, through Brussels' most famous shopping street. The Rogier metro stop is next to the hotel and the Brussels Nord (Gare du Nord (FR) or Noordstation (NL)) train station at only 500 metres from the hotel.