

M3DLoC Project Newsletter

2019

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

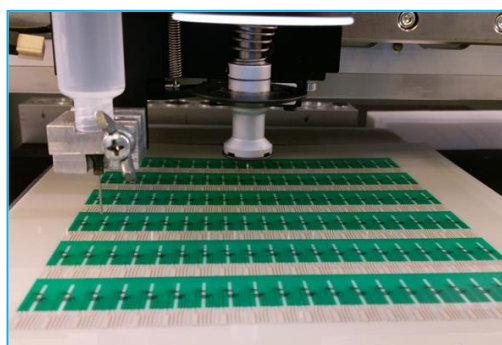
M3DLoC aims at the employment of multi-material 3D printing technologies for the large-scale fabrication of microfluidic MEMS for lab-on-a-chip and sensing applications. The concept is based on the combination of multimaterial direct-ink-writing method and an extrusion-based 3D printing pilot line, in order to fabricate microstructured detection devices with the ability to perform all steps of chemical analysis in an automated fashion



Newsletter 2

M3DLoC Welcomes a New Partner into the Consortium

Joanneum Research Health has joined the M3DLoC Project. They were introduced to the rest of the consortium during the Project Meeting on the 4th and 5th July, in Limerick. During this meeting, Dr Hajnsek, representative of Joanneum Research Health, presented an overview of the work carried out by the Institute and their relevance to the project.



M3DLoC Project Meeting – Limerick, Ireland.

The **University of Limerick (UL)** hosted the M18 meeting of the **M3DLoC** project on the 4th and 5th July, this was an opportunity for the **M3DLoC** partners to meet the new Project Officer and the Project Monitor. All participants had the opportunity to visit the *bio and materials labs* at the University. After a long day where partners gave an overview of the achieved results in each work package, delegates were invited to a dinner at the *Limerick Strand Hotel* hosted by **University of Limerick**.



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PARTNERS

National Technical
University of Athens -
NTUA

University of Limerick

Universidade de Aveiro

AltraTech Limited

Cambridge Nanomaterials
Technology Ltd

University of Strathclyde

RayScan Technologies
GmbH

Avanzare Innovación
Tecnológica SL

VITO

IRES

M-SOLV

Fraunhofer ILT

BioG3D

Microliquid S.L.

PolyPico Technologies Ltd

ELVESYS SAS

NTUA-AMDC - Lavrion
Technological and Cultural
Park

Joanneum Research -
Health



Dissemination Activities

M3DLoC Partners have been very active organizing and participating in a series of dissemination activities to promote the project, some of which are described below.

Members from **VITO** represented the project at the **8th Symposium of the Nanotechnology Industries Association (NIA)** on the 27th March in Brussels. This Symposium had the participation of around 50 delegates from a diverse community of nanomaterials industry, research, regulators and expert services.



National Technical University of Athens (NTUA), Innovation in Research & Engineering Solutions (IRES) and Cambridge Nanomaterials Technology Ltd. (CNT), were present at the **EuroNanoForum 2019** which took place on June 12-14, 2019 in Bucharest, Romania. A poster of the **M3DLoC** project was displayed during this event.



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On the 6 Sept 2019, **NTUA** and the **University of Limerick** participated at the IEEE 17th International Symposium on Electrets (ISE 2019), in Limerick, Ireland, with an oral presentation on “*Multi-Material Additive Manufacturing of Microfluidic BioMEMS for Lab-on-Chip Applications: Challenges and Future Perspectives*” and a presentation of the **M3DLoC** project.



M3DLoC Partners from **NTUA** and **IRES** gave presentations about the project, at the *Advanced Materials for Additive Manufacturing –AMAM– consortium* meeting on the 10th and 11th July 2019 at Wolfson College, Cambridge. The consortium is run by **CNT Ltd**, one of the **M3DLoC** partners who is in charge of Exploitation and Dissemination. A poster of the project was displayed at the exhibition area of this event.



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