

APPLICATION NOTE

USING THE LSPone FOR EDUCATION

Advanced
MicroFluidics
Innovative
automation solutions



WHAT ARE WE DOING?

With its plug-and-play setup, the LSPone is very well suited for practical works in education. It is used in Swiss universities.

The aim of this practical work is to learn the technique of rapid prototyping for microfabrication and to test the fabrication by observing the flow of 2 liquids using optical microscopy. The LSPone is used to bring liquids and microbeads in the microchannels that have been fabricated by the students.

WHO DOES THIS PRACTICAL AND WHAT DO THEY DO?

This practical is taught (at different speeds) to bachelor students in the course “Micro et nanotechnologies appliquées” at the HE-ARC and to master students in the course “Microfluidique” at HES-SO, two Swiss universities of applied science.

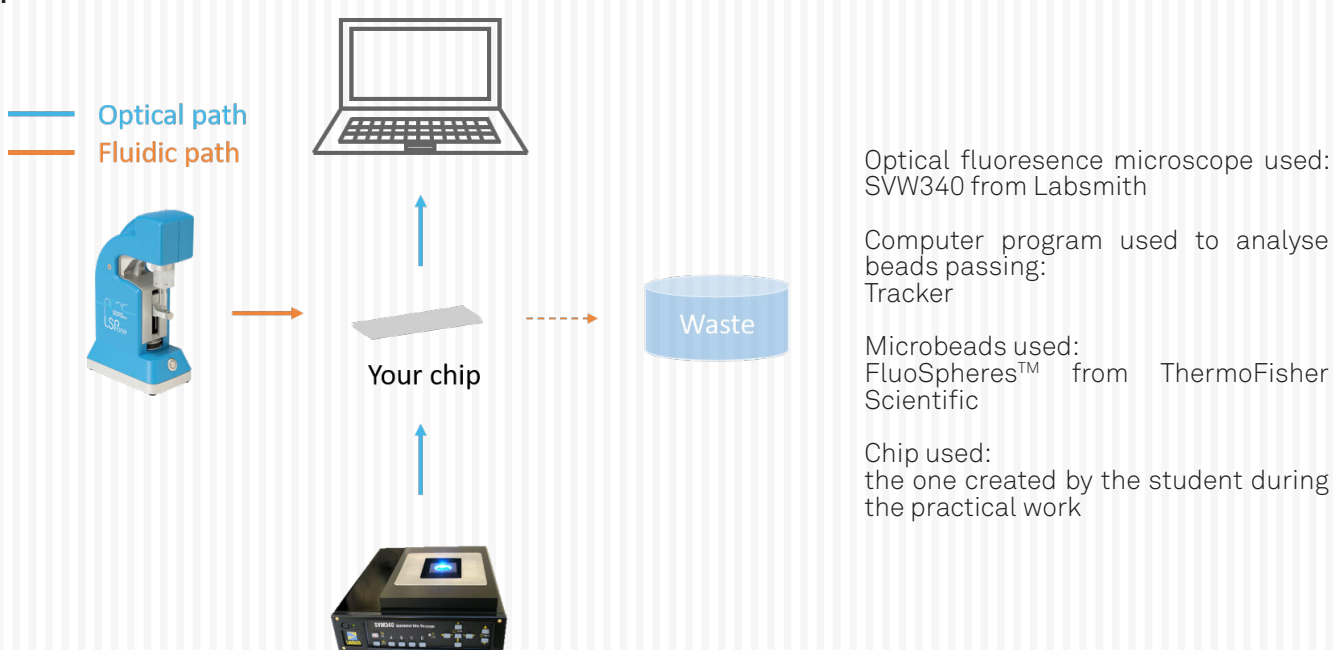
It includes the following steps:

- Fabricating the mould for rapid prototyping
- PDMS moulding
- PDMS-glass bonding
- Measuring using a pump and a microscope
- Video analysis

For more details, please check out the video on our website.

A big thanks to Professor Alexandra Kämpfer-Homsy, from the Micro- and Nanosystems lab at HE-ARC, for sharing this with us.

SETUP



USER FEEDBACK

“This pump is so easy to use compared to others I have tried. And the software is so simple. It’s a pleasure to use the LSPone.”

Pr. Alexandra Kämpfer-Homsy

WHAT’S IN IT FOR YOU?

- An easy-to-setup pump
- A compact solution
- An intuitive software
- A cost-friendly solution
- A clear and simple example for students

CONTACT US FOR MORE INFORMATION

Advanced Microfluidics SA
Ch. de la Dent d’Oche 1a
CH-1024 Ecublens
Switzerland

www.amf.ch
info@amf.ch
+41 21 552 14 30