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Lab-on-chip microfluidics

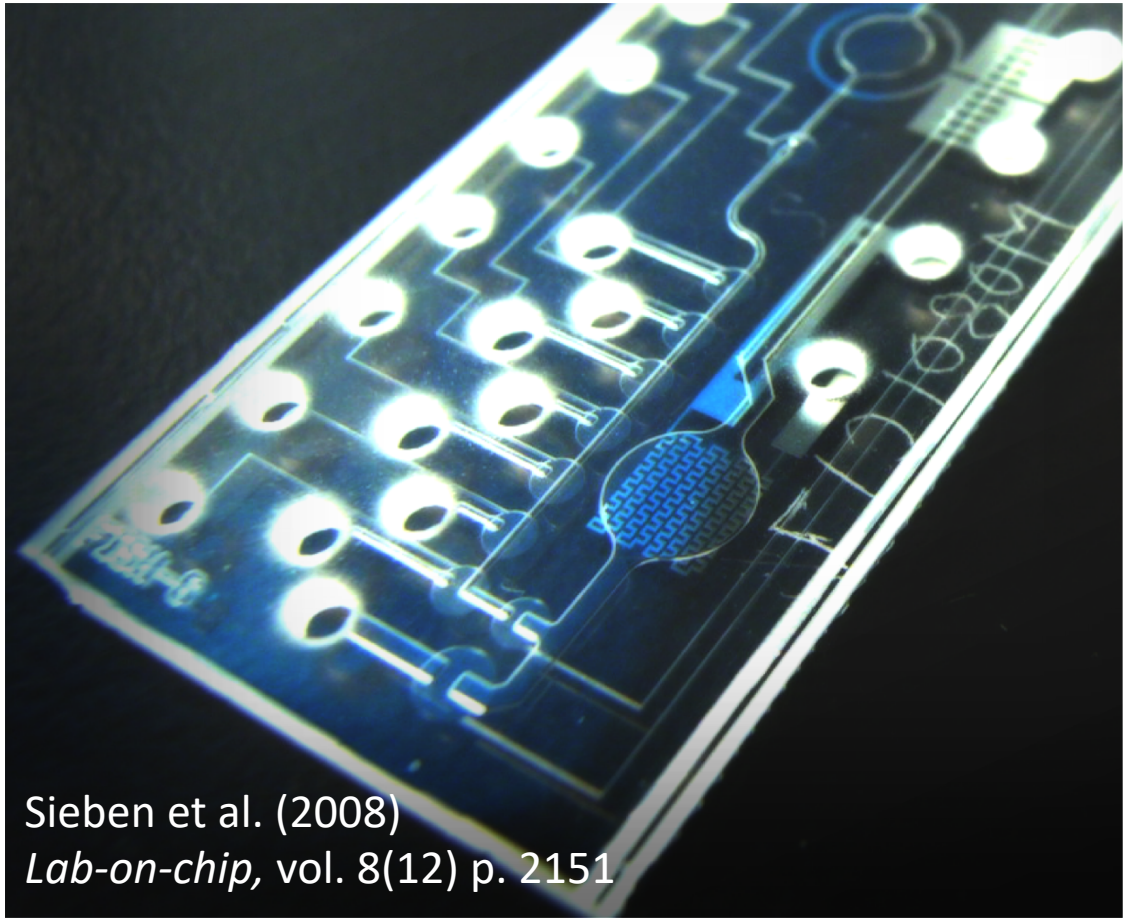
Phosphate

eDNA

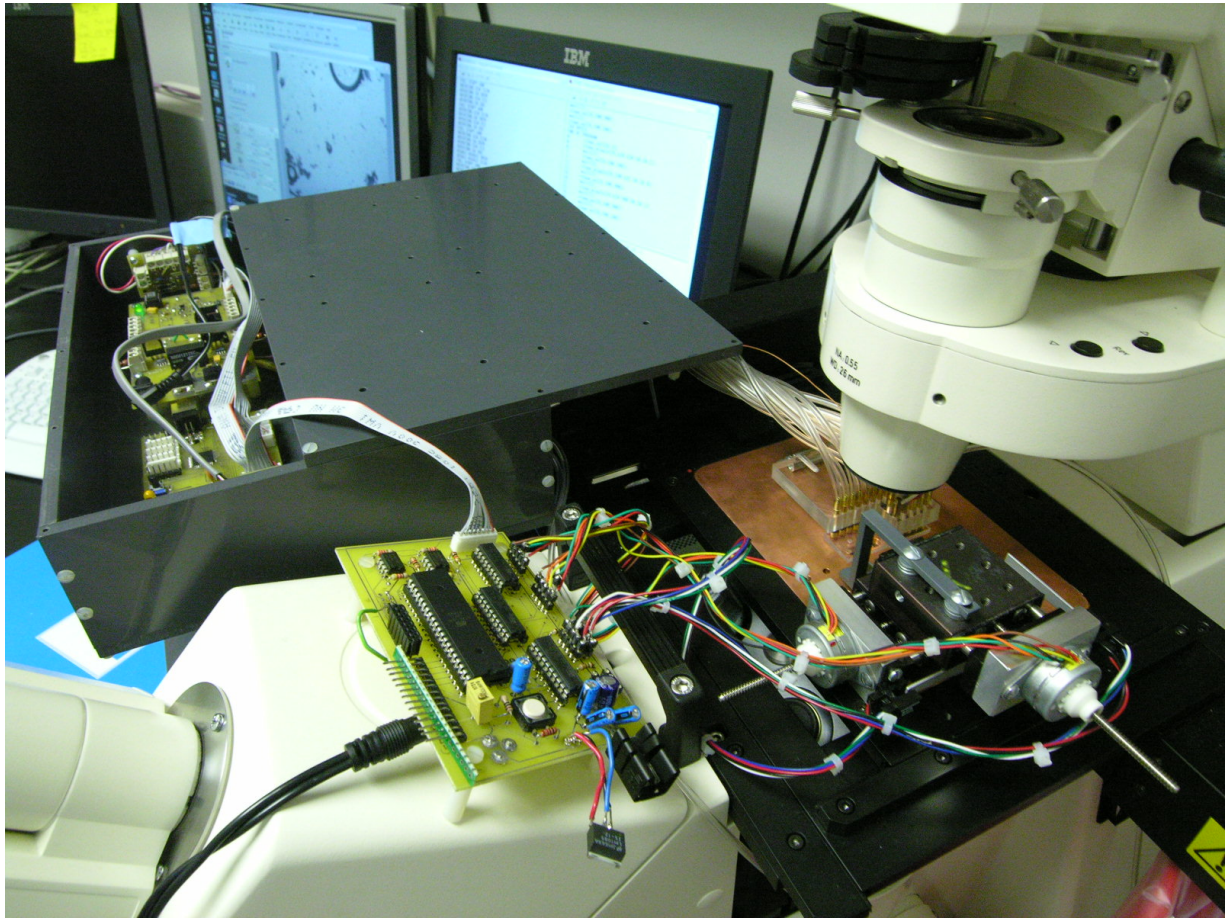
Platforms

Flash talk
August 26, 2020

# LAB-on-chip … OR … CHIP-in-Lab

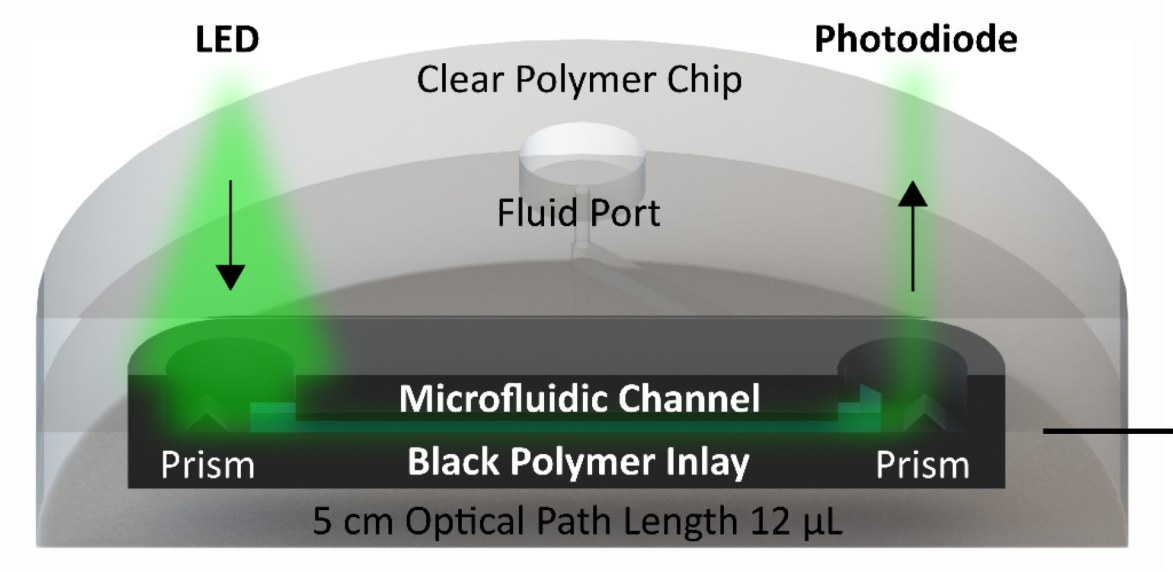


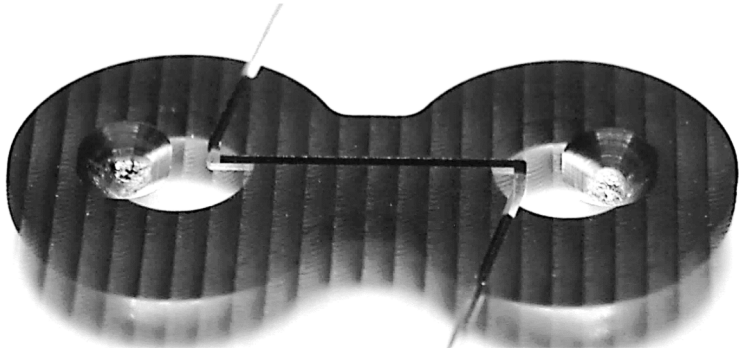
Sieben et al. (2008)
*Lab-on-chip,* vol. 8(12) p. 2151

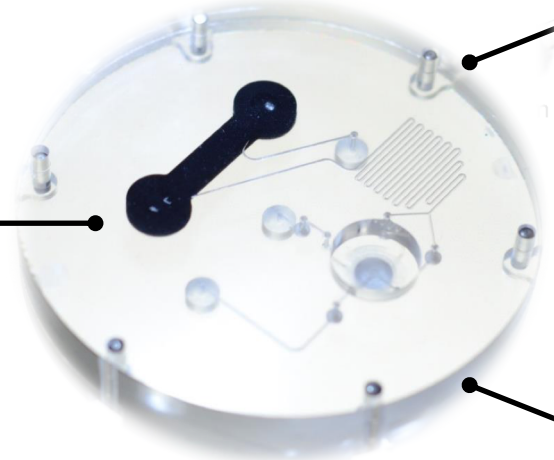


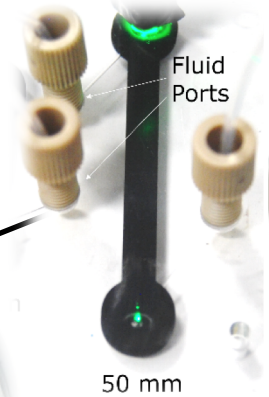
# Inlaid microfluidic optics™

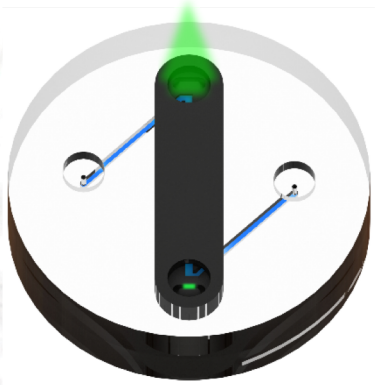
Luy et al. (2020), JMM., vol. 30(9)
*Patents pending:*
USPTO 62_854602, USPTO 62_854621







Seamless Integration of PCB & Chip

# Our small *in situ* analyzers

length

6 in
15 cm

diameter 2.5 in
6.5 cm

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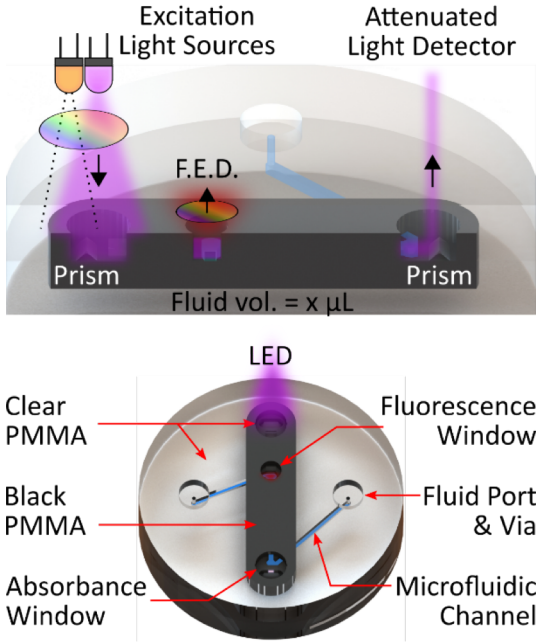
# Scaling Lab-on-chip Phosphate and eDNA

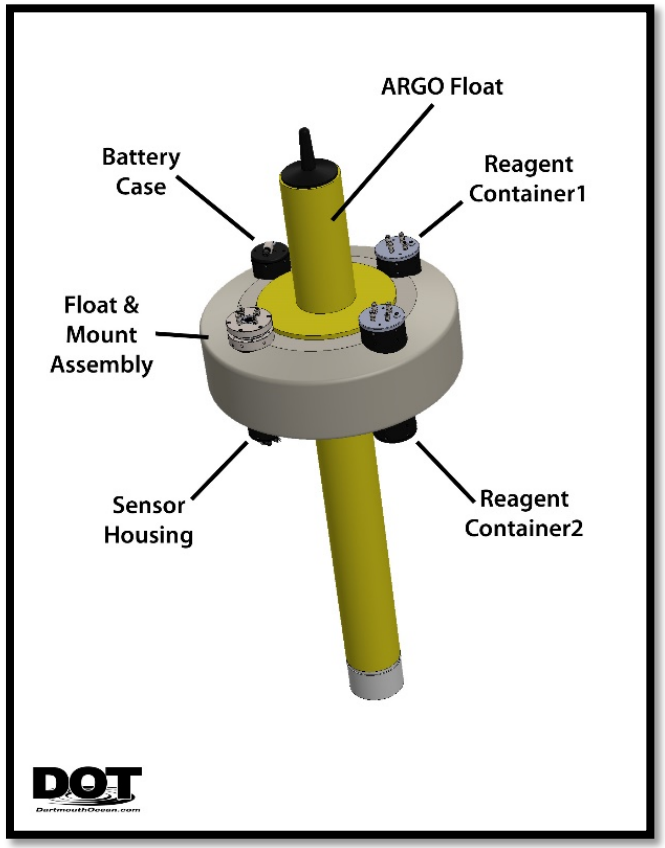
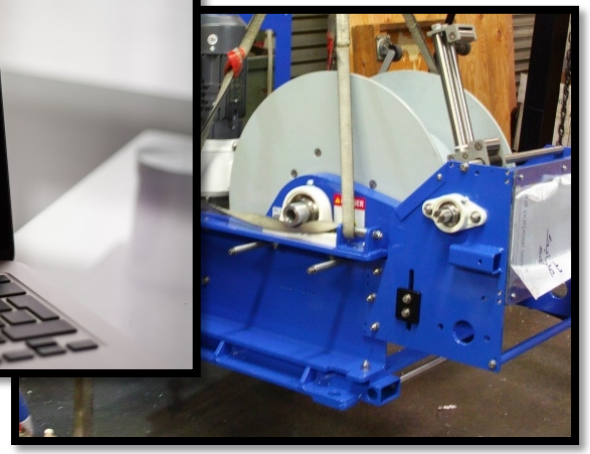
**Ocean Aware - Innovasea**
**$29M**
**Multiple eDNA units for Aquaculture**




**Inlaid Microfluidic Optics™**
for multi-channel
Fluorescence and qPCR

https://oceansupercluster.ca/ocean-aware-project-announcement-news/

# What can DOT help with?

sales@dartmouthocean.com

- Phosphate, eDNA sensors
- Towed V-Wings
- Vertical profilers
- End-to-end integration