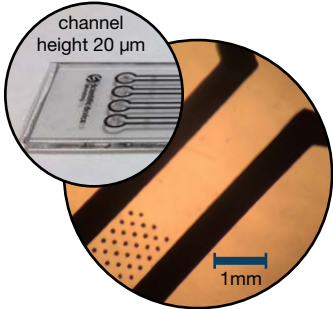


# MICROFLUIDICS: small features for LARGE production

\* pictured: SDL's droplet generator made with our proprietary additive printing technique

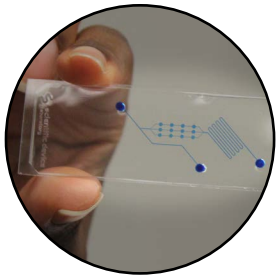


## Microfluidic Capabilities



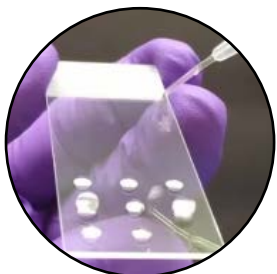
### Precision Printing

- Proprietary Additive Printing Technique allows ink heights between 5- 250  $\mu\text{m}$ , feature sizes down to 50 $\mu\text{m}$
- Hydrophobic, superhydrophobic (water-air-ink contact angle > 140°), and conductive inks
- Substrates of plastic, glass, ceramics, silicon, circuit boards, and more
- Custom substrate sizes and shapes, e.g., round/rectangular
- Enclosed microfluidic channels



### PDMS Prototyping

- Feature sizes down to 10  $\mu\text{m}$  in the x-y plane
- Feature heights from 5  $\mu\text{m}$  to 250  $\mu\text{m}$  in the z-direction
- Substrates as large as 100 mm in diameter
- Multi-level structures possible



### Coatings

- Hydrophilic/Hydrophobic/Superhydrophobic coatings
- Stick-n-Slide - Make your aqueous solutions stick where they need to, and slide off everywhere else
- Functional Surface Chemistries: Silane coupling agents to improve adhesion & protein-repellent polymers to reduce non-specific analyte adsorption or cell adhesion

### About us

Scientific Device Laboratory's story began in 1980 in a suburban Chicago basement, with offbeat ideas, a mad scientist/microbiologist, a scrappy accountant, and a ton of COURAGE. Our motto was, and still is, "If we can't find a way, we will make one". Today, our extended family of CURIOUS employees combines expertise in service, microbiology, manufacturing, and the vastly technical field of printing and coating microscope slides. In an industry dominated by giants, we are proud of our reputation for Tony Stark or MacGyver-like fast innovation with CARING, small-town service. We are honored to COLLABORATE with our Fortune 500 partners to grow profits through automation. Energized by our work with innovative lab techs, we have expanded our horizons to help game-changing researchers to CONSTRUCT novel materials and bring ingenious products to market. Our ambition for our customers is that they use our creative resourcefulness to 'find a way' with their CLEVER ideas and build their own story.