

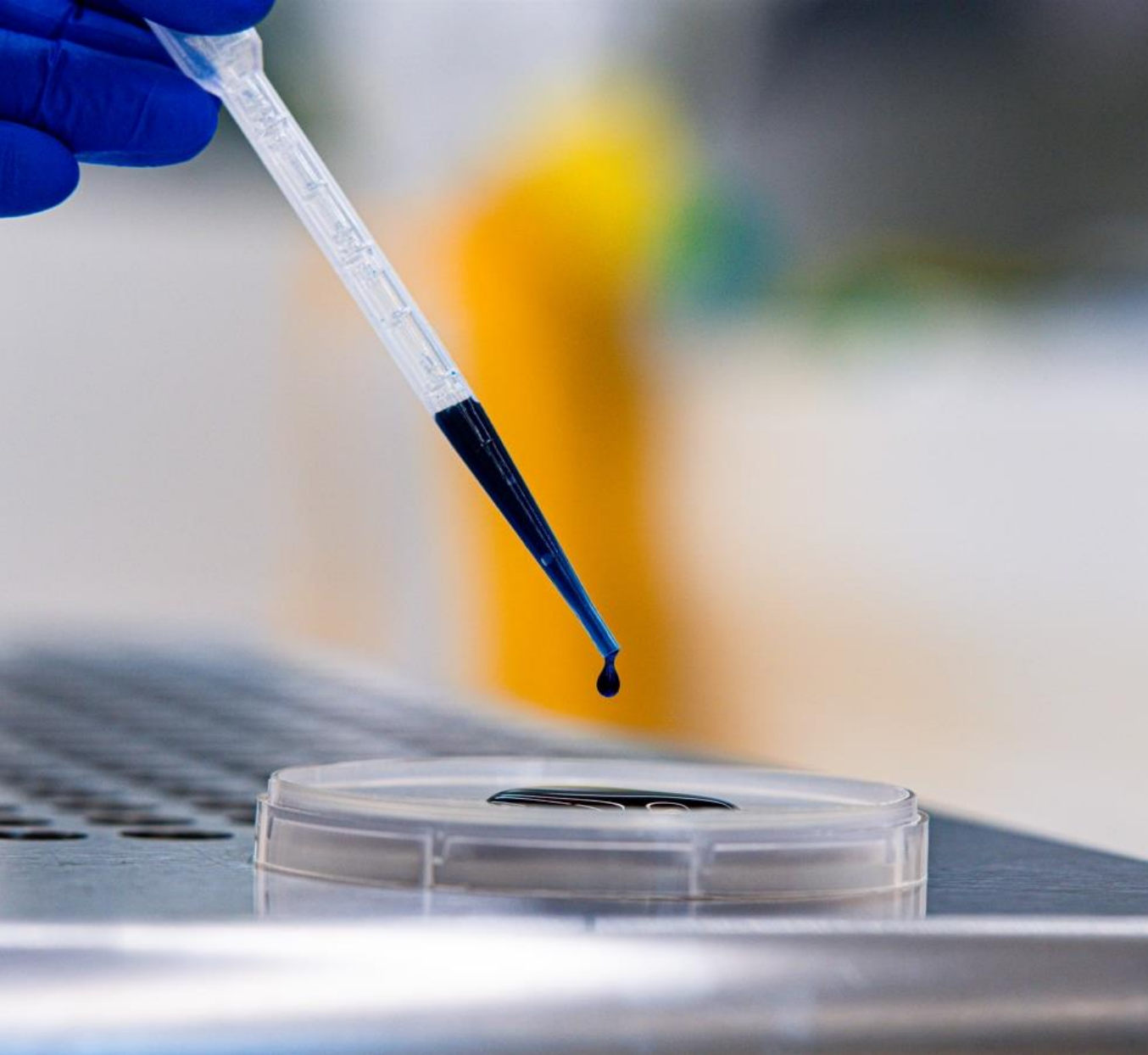
# 2024



A CLOSER LOOK

*into*

V i N S E



# JANUARY 2024

Squeezing every last drop  
Pipette transferring solution onto a wafer sample



Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

# FEBRUARY 2024



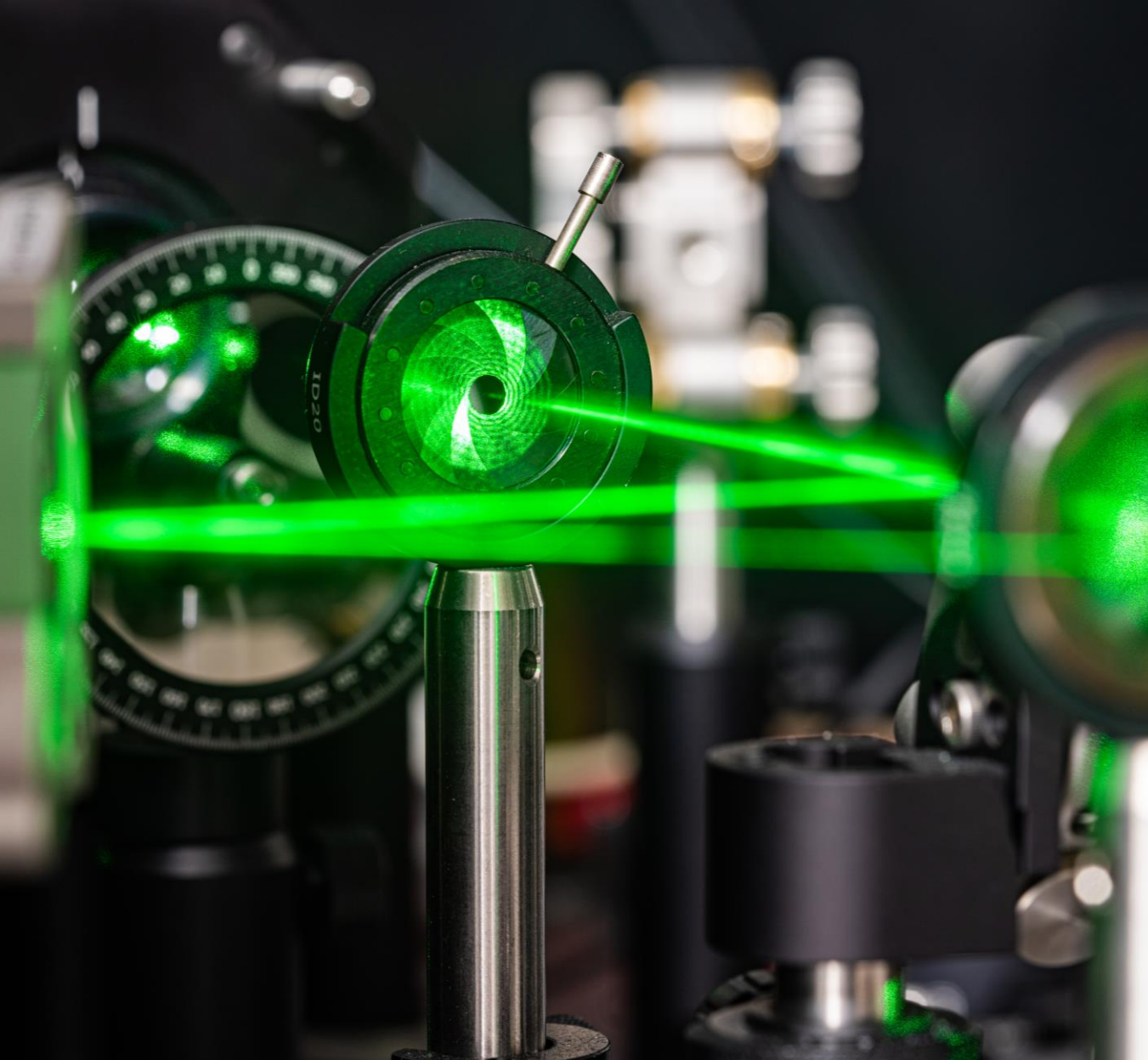
## Tweezer stockpile

Selection of tweezers, scribes, and blades used across the VINSE facilities to handle and prepare samples



Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29		

# MARCH 2024



## Laser playground

Probe laser in a photoluminescence microscope for quantum source characterization in the Nanophotonic Materials and Devices Lab



Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24/31	25	26	27	28	29	30



APRIL 2024

Turn on the jets

Saw blade and water jet for neatly dicing wafers using the Disco DAD3220 in the VINSE Cleanroom



Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				



MAY 2024

Layer-by-layer

Printed component using the Prusa 3D printer in the VINSE  
Specimen Preparation Lab

VINSE

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	



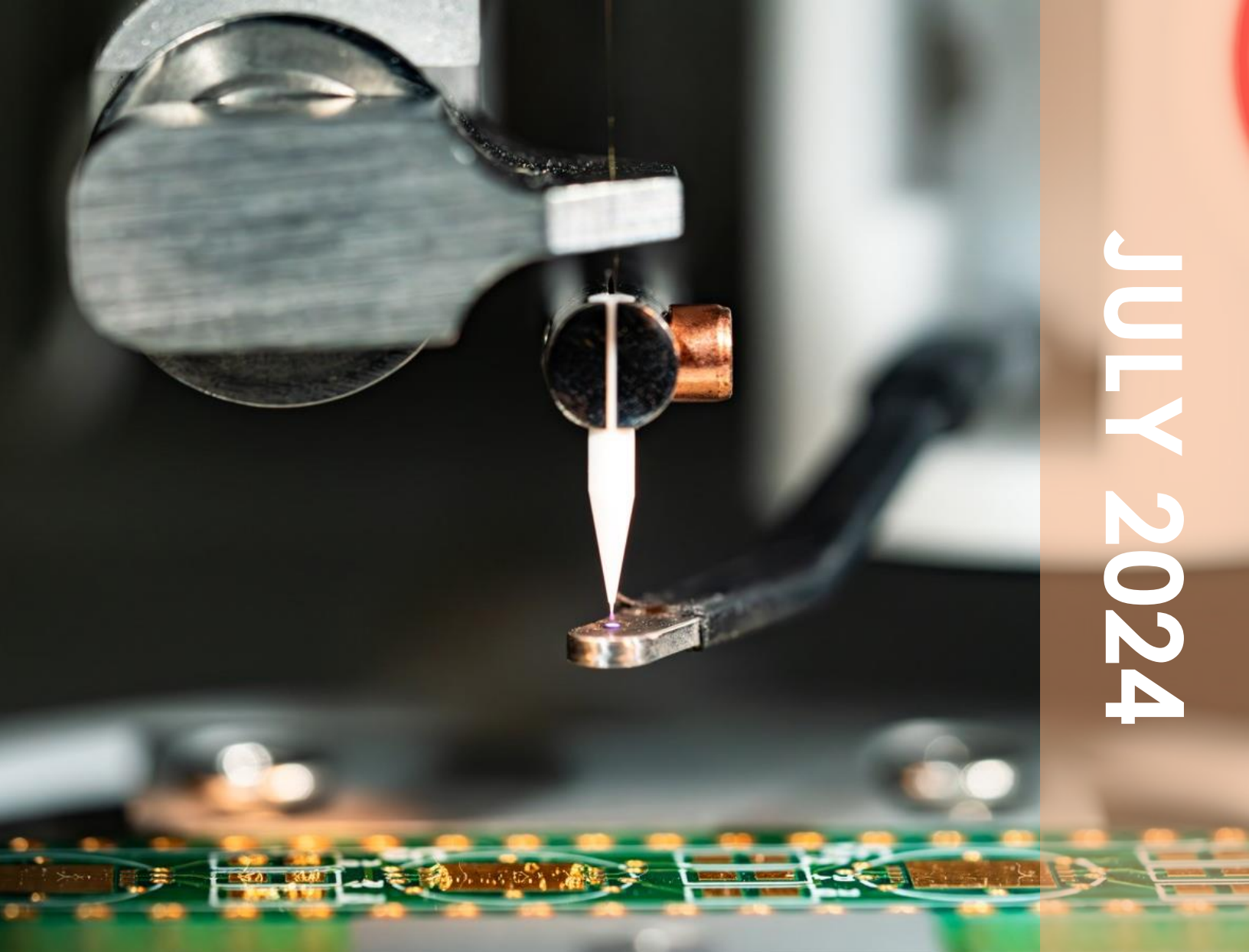
# JUNE 2024

Safe and secure  
Wafer carrier used for sample storage in the VINSE Cleanroom



Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23/30	24	25	26	27	28	29

# JULY 2024



## Sparking the ball

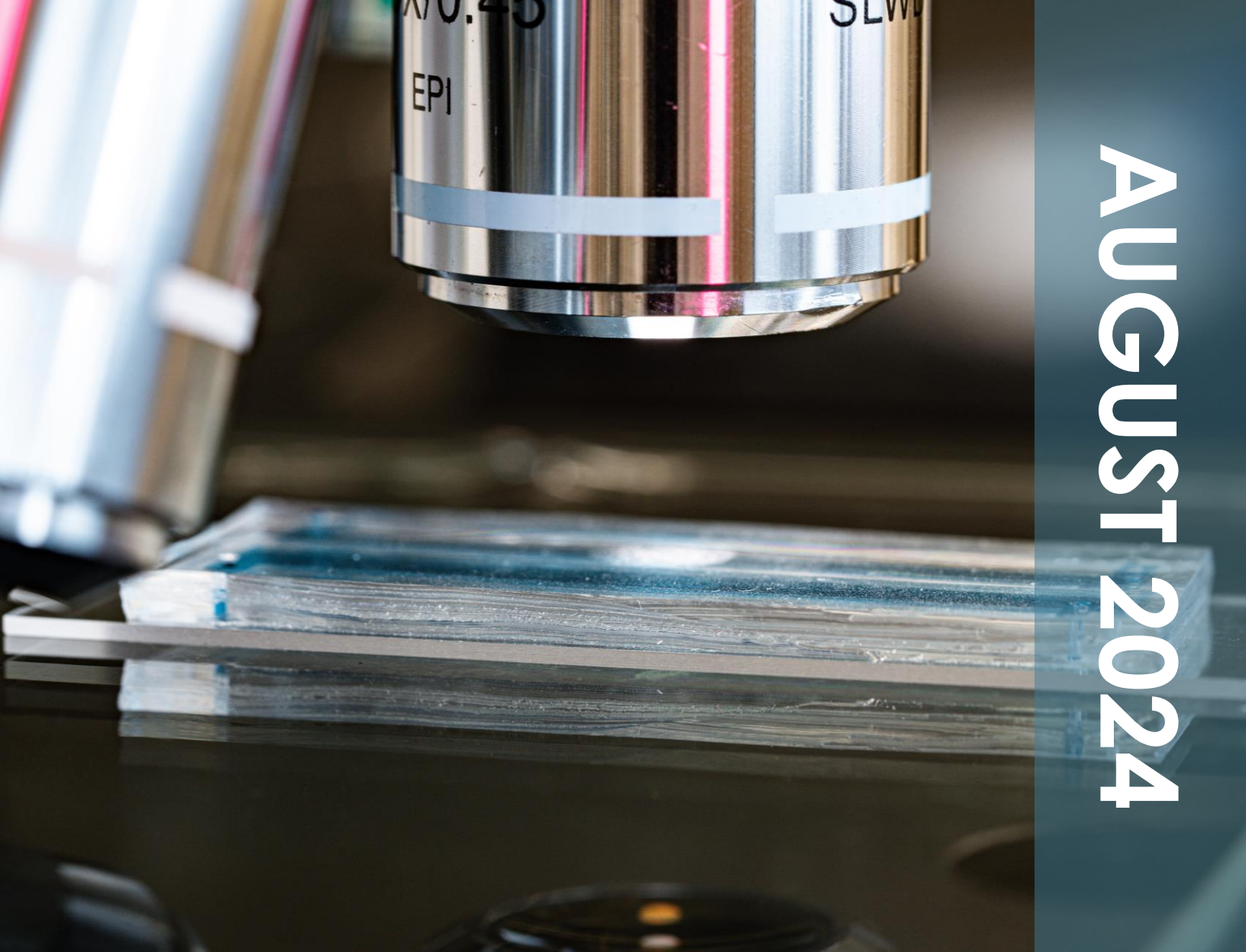
Plasma arc between gold wire and electronic fire off wand to form a wire bonding ball in the Radiation Effects Research Lab

V i N S E

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			



# AUGUST 2024



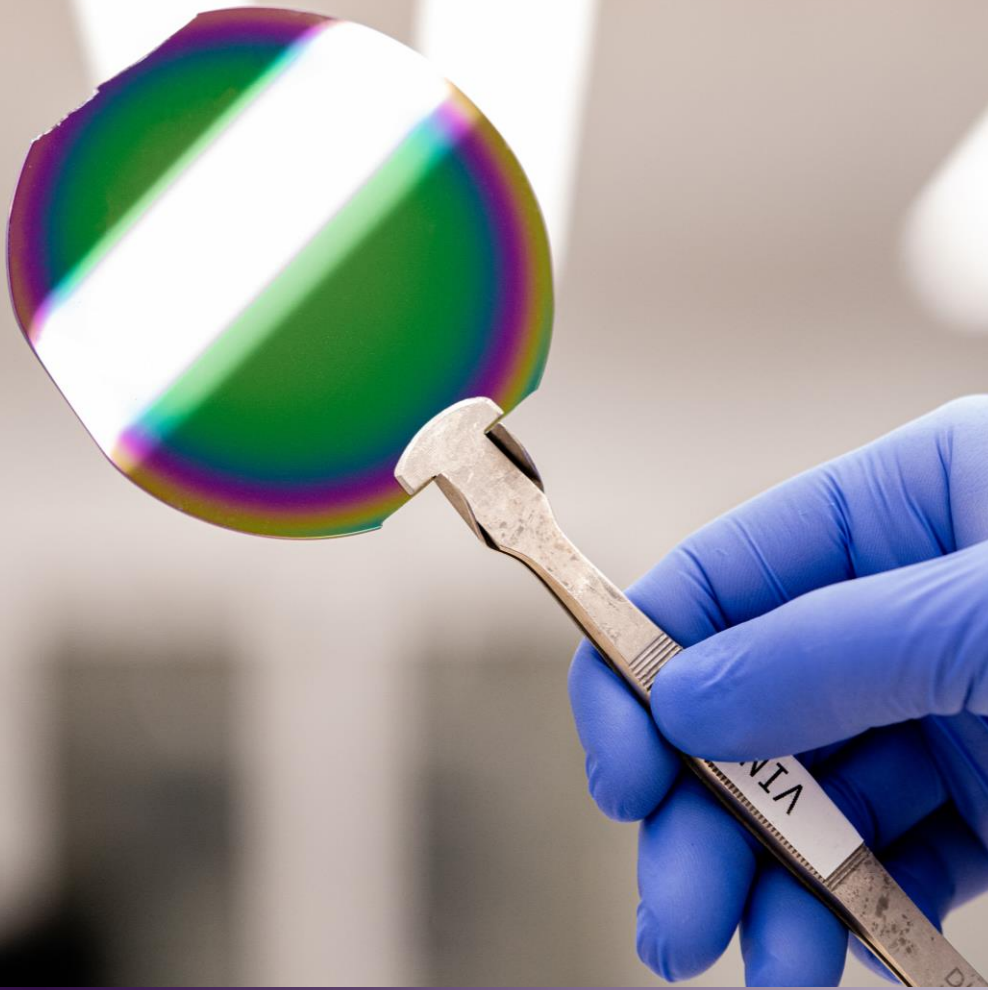
Objective is the subject

Microfluidics device imaged using an optical microscope in the VINSE Clearroom



Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

# SEPTEMBER 2024



## Wafer shine

Thin film-coated wafer deposited using the Trion Orion II plasma enhanced chemical vapor deposition system in the VINSE Cleanroom



Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

# OCTOBER 2024



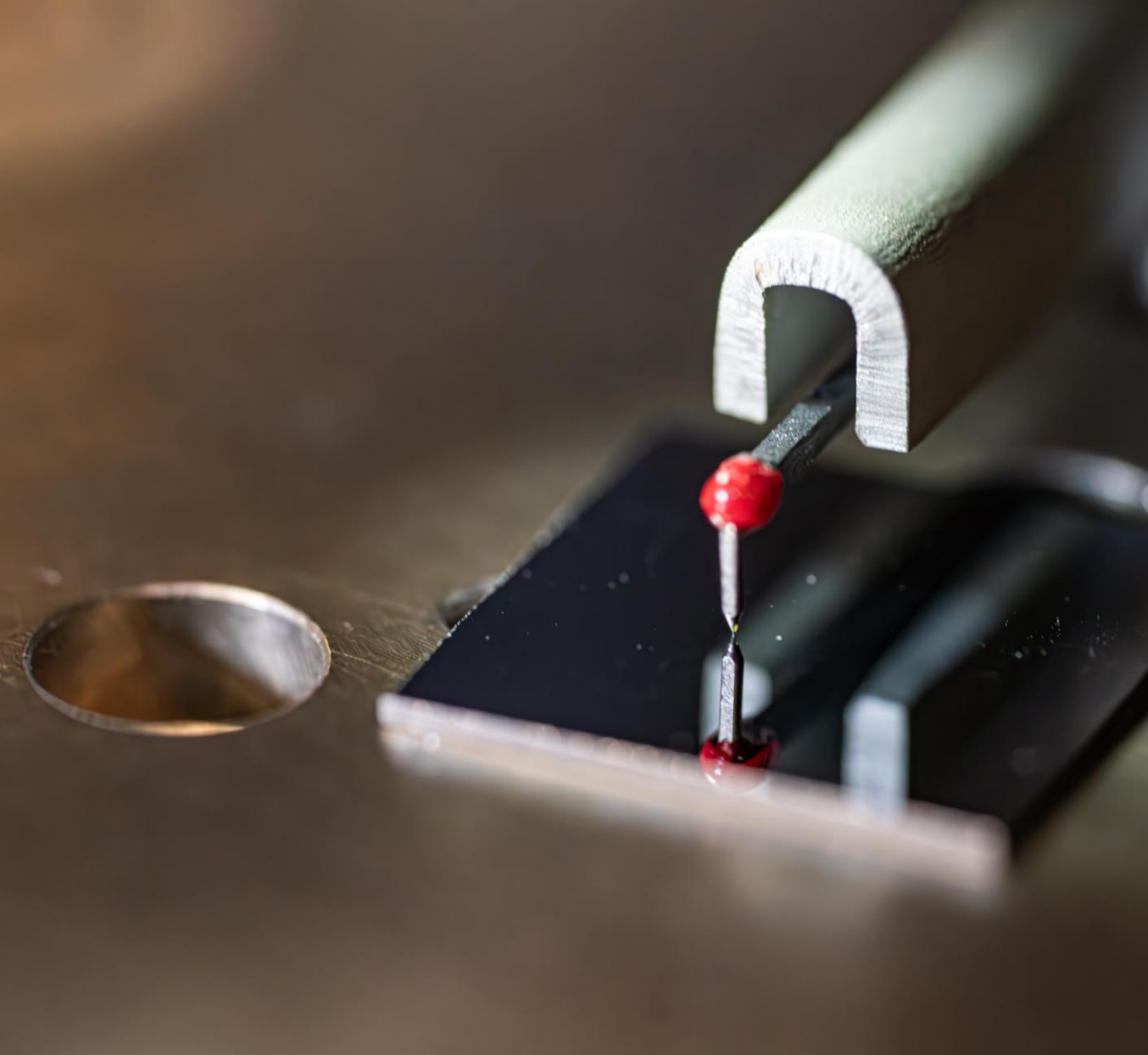
## Start to spray

Isopropyl alcohol (IPA) in a squeeze bottle used for cleaning samples in the VINSE Cleanroom



Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

# NOVEMBER 2024



## Scratching the surface

Cantilever tip contacting the surface of a silicon wafer in the Bruker Dektak 150 stylus profilometer in VINSE Analytical Lab



Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

# DECEMBER 2024



## Frozen in time

Liquid nitrogen preparation of biological samples for cryo-imaging in the FEI Helios NanoLab G3CX in the VINSE Advanced Imaging Facility



Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

# VINSE



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