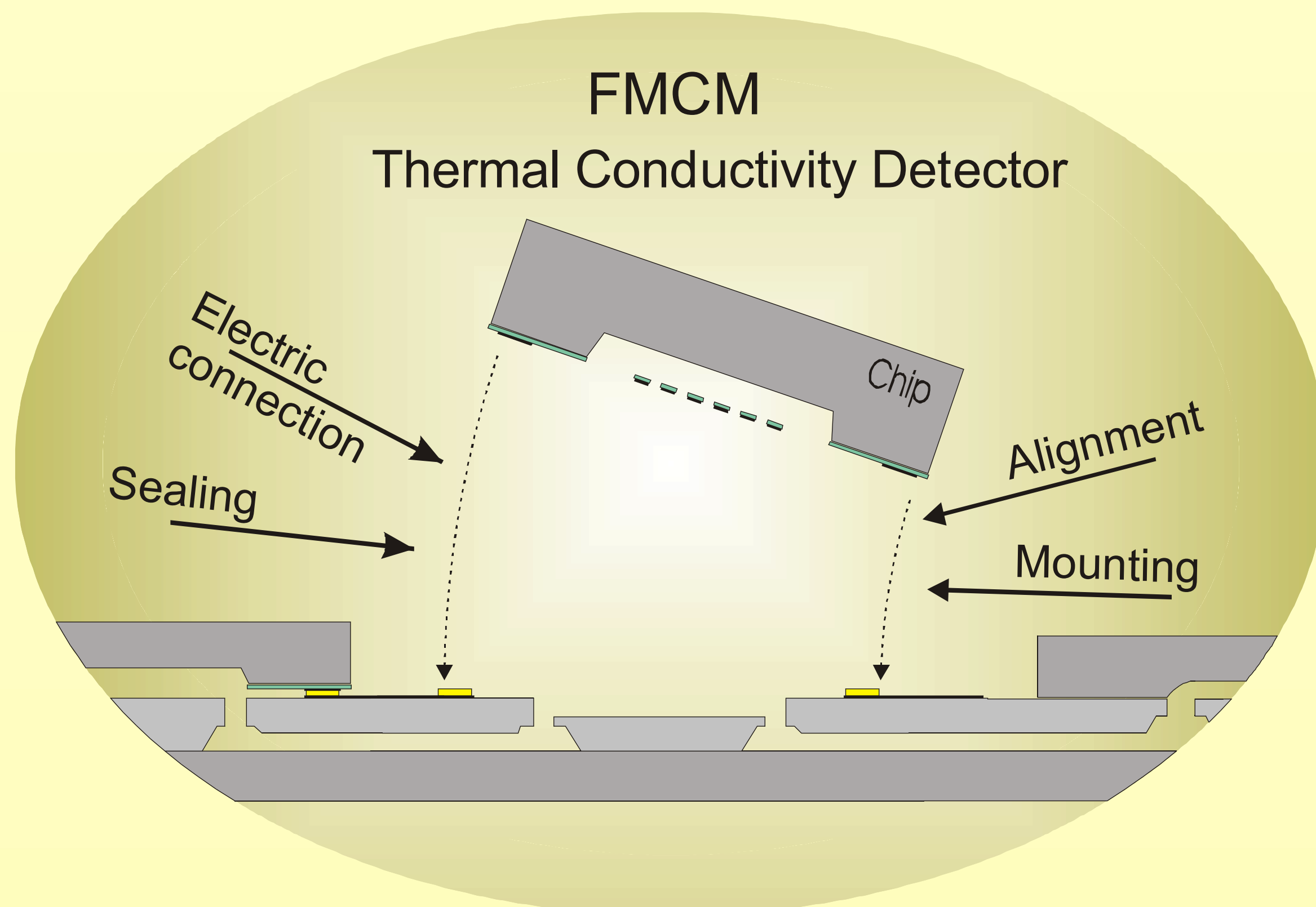


A fast handheld microGC enabled by FMCM fluidic integration technology

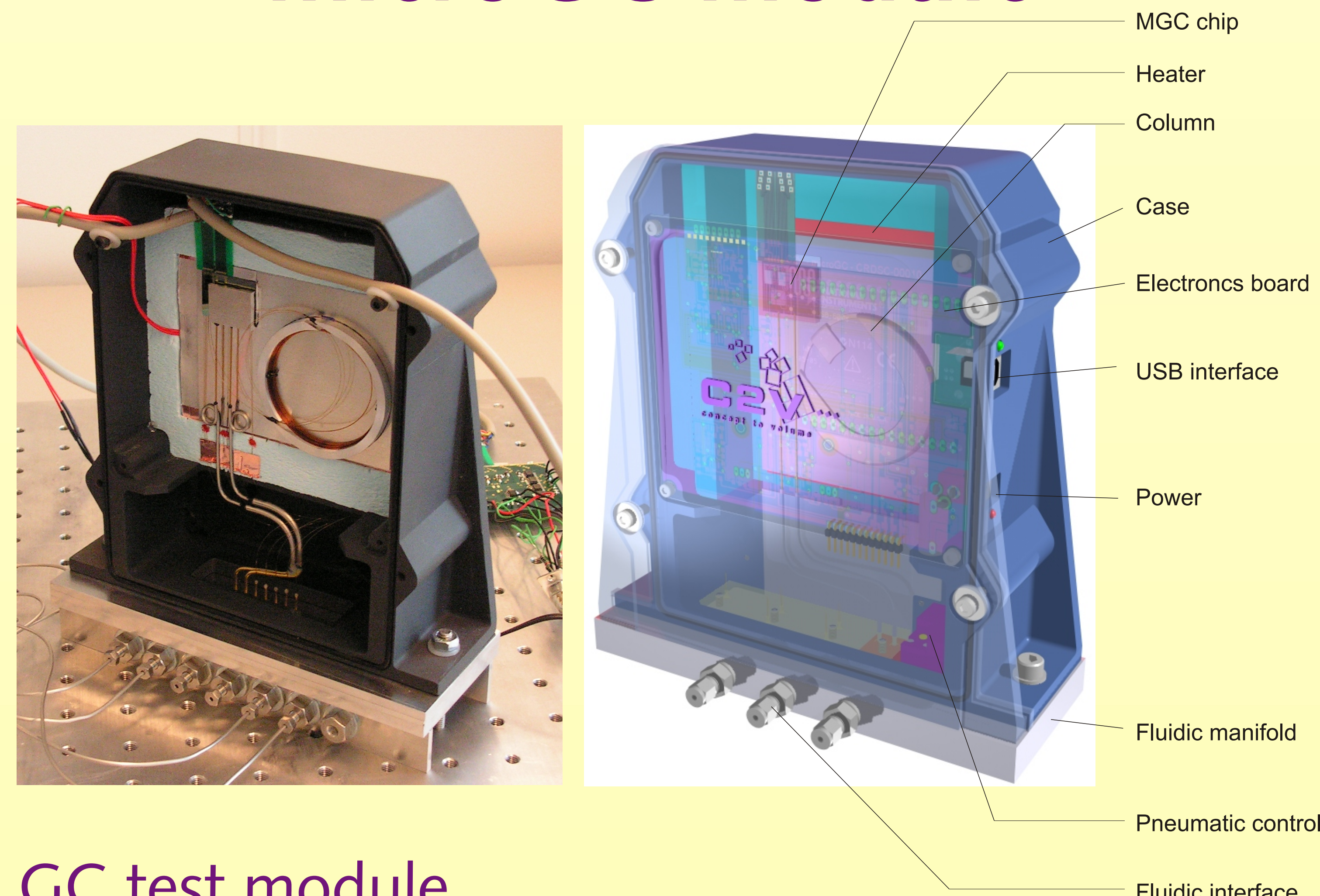
V. Spiering, G.J. Burger, M. Klein Koerkamp, H. Van Weerden, J. Vis, J. Bijen, J. Elders

technology



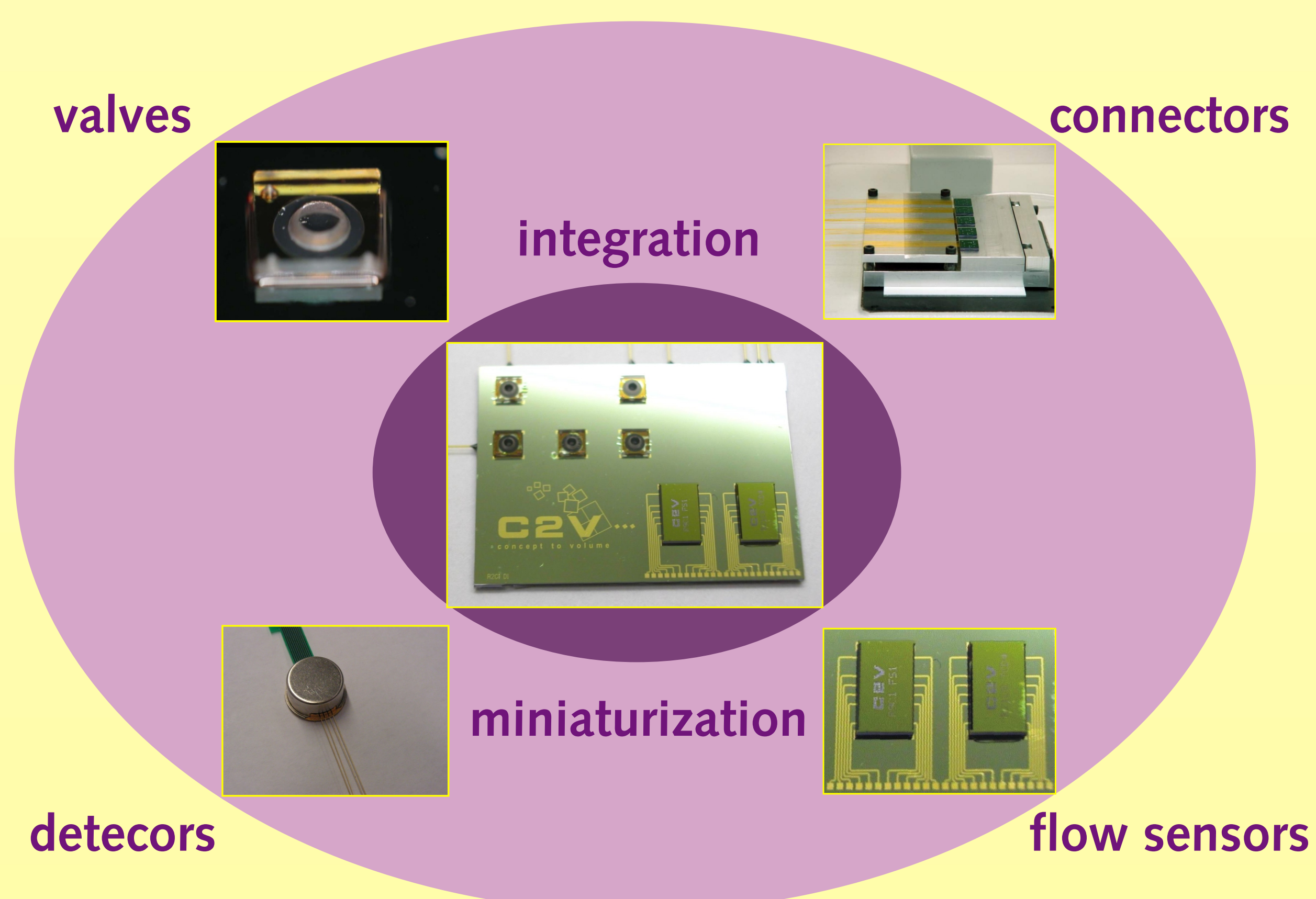
Fluidic Multi Chip Modules

microGC module



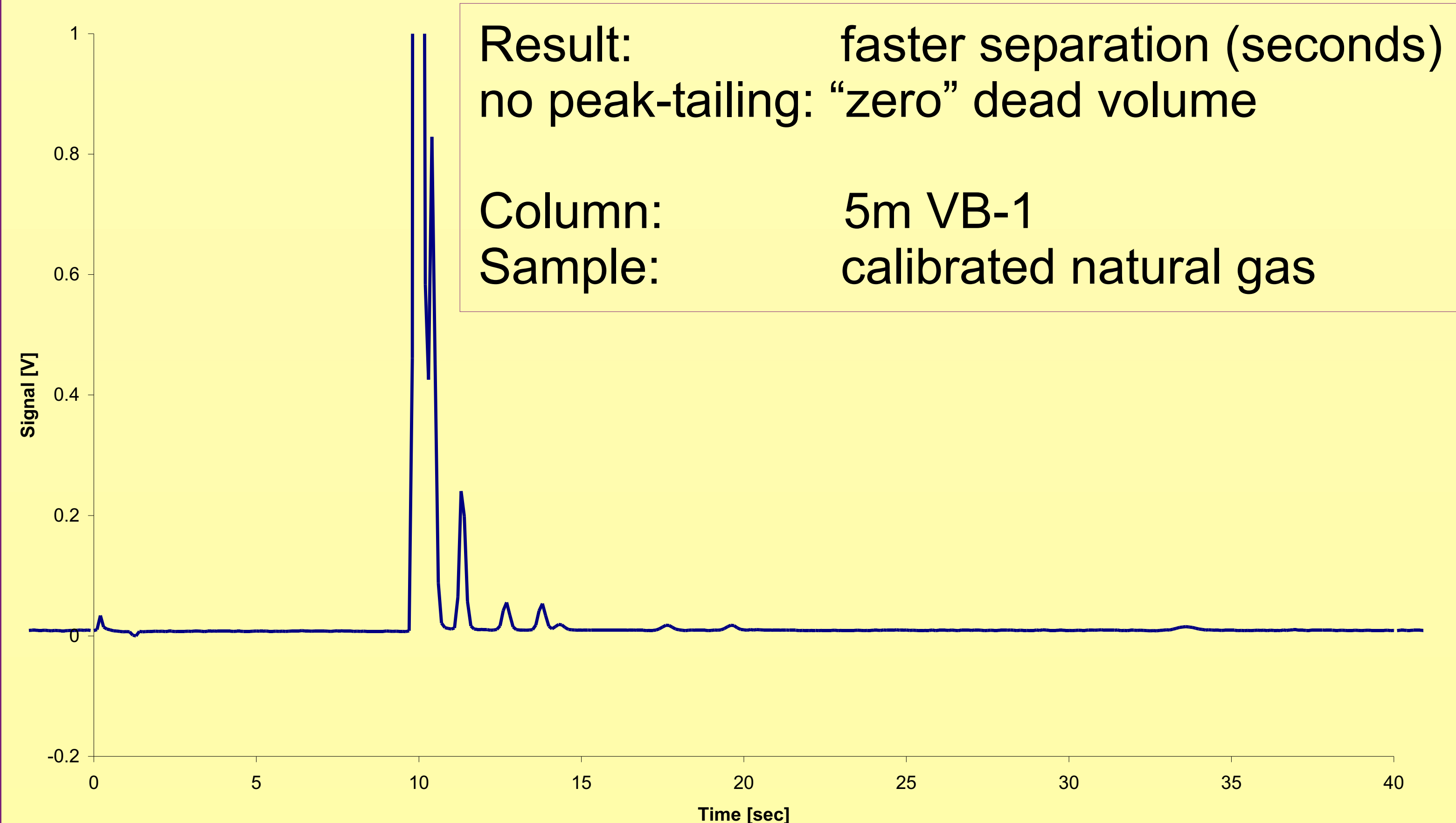
GC test module
with integrated oven & software interface

microGC components



integrated GC functionality < 1x1 inch²

microGC results



$P_{He}=2\text{bar}$; $P_{NG}=2\text{bar}$; Injected volume=2.0ml; $T=45^{\circ}\text{C}$

fast handheld GC demonstrated
further steps in air detection at ppb level

faster detection • lower power • less consumables

Your partner in small-tech product development

