



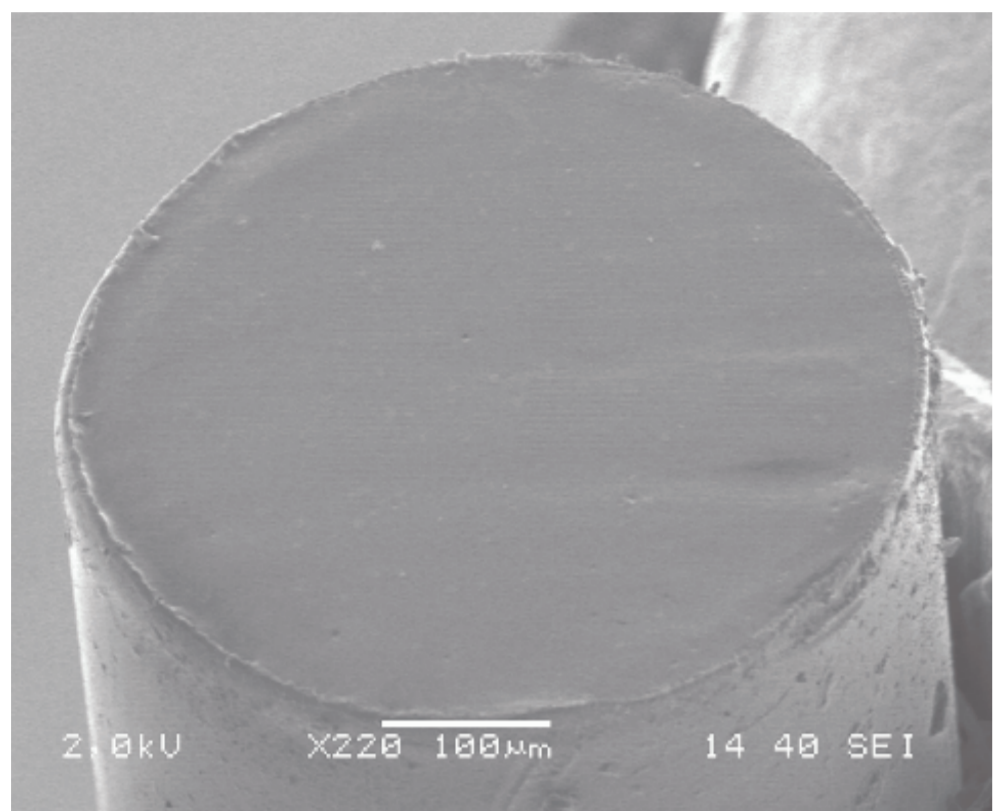
Laser Ablation: a Versatile Micro-Machining Technology

G. Van Steenberge, N. Hendrickx, E. Bosman, S. Van Put, P. Geerinck and P. Van Daele
INTEC-TFCG Microsystems, Ghent University

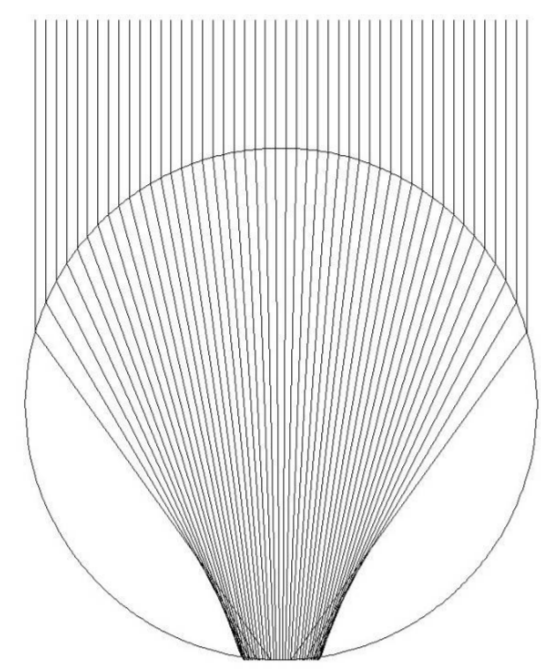
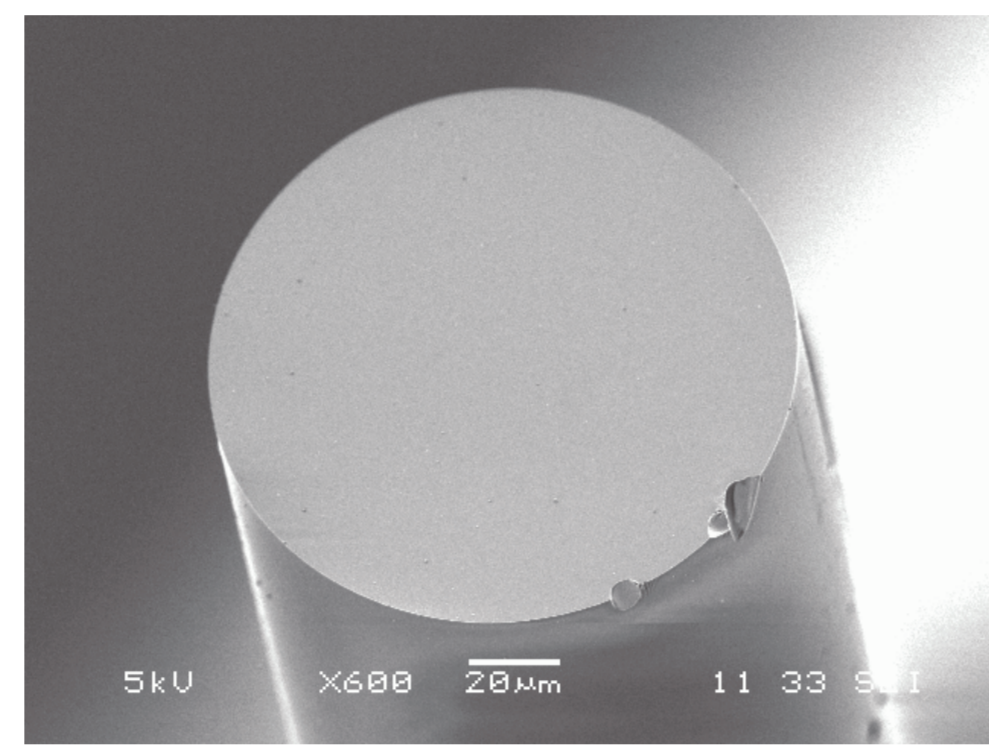


KrF excimer (248 nm) Nd-YAG (355 nm) CO₂ (9.6 μm)

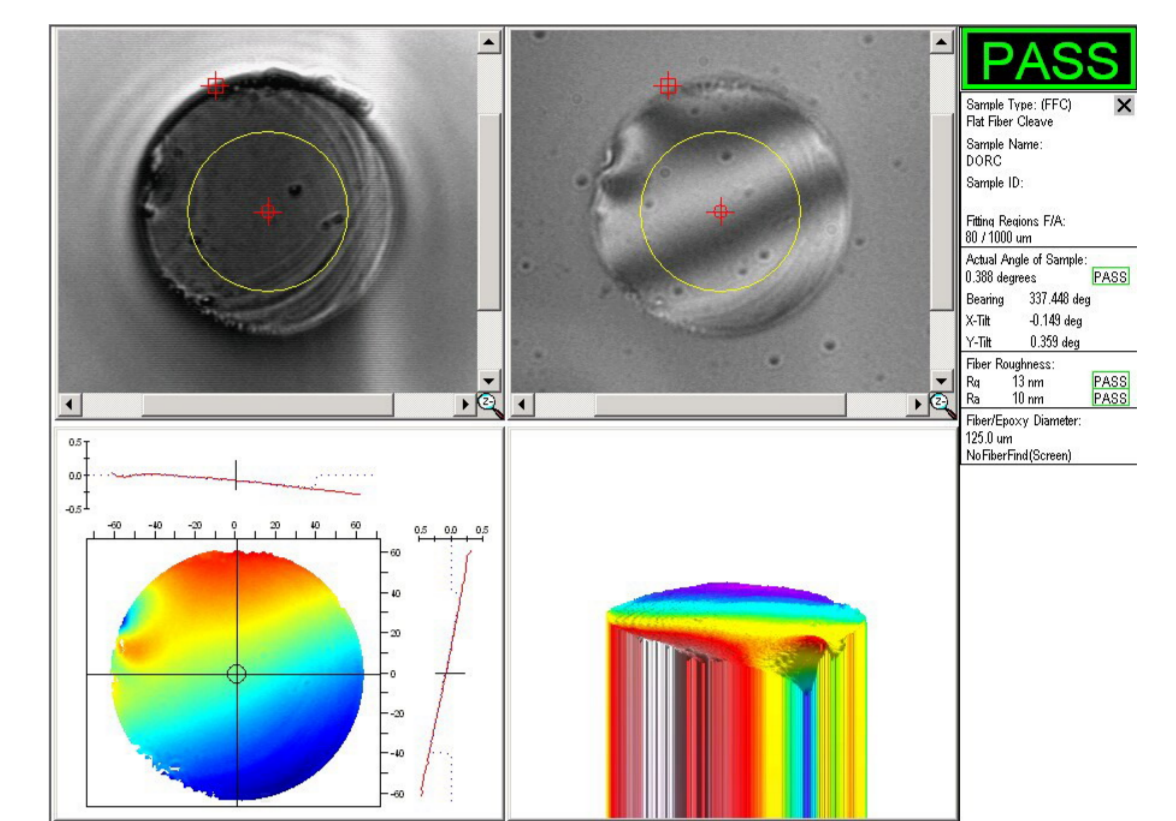
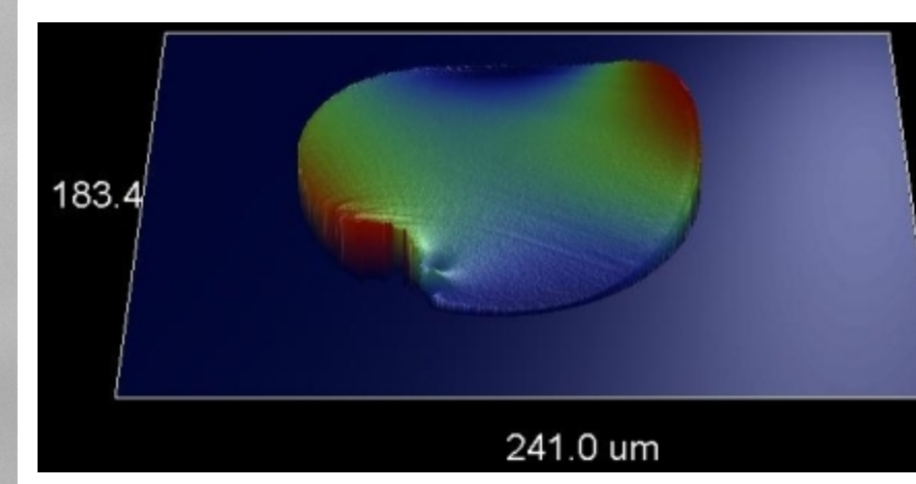
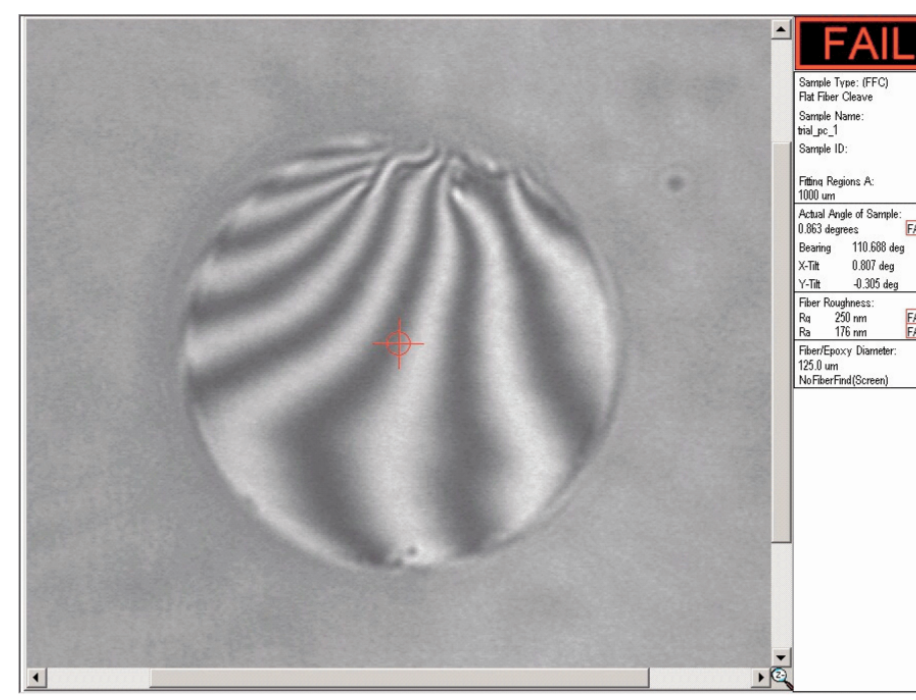
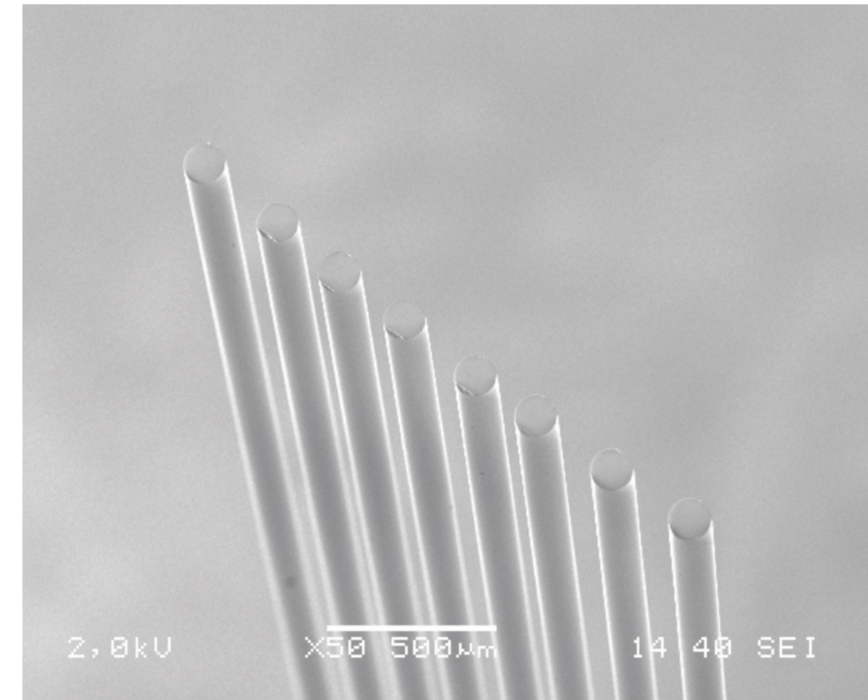
Fiber structuring



plastic optical fiber termination

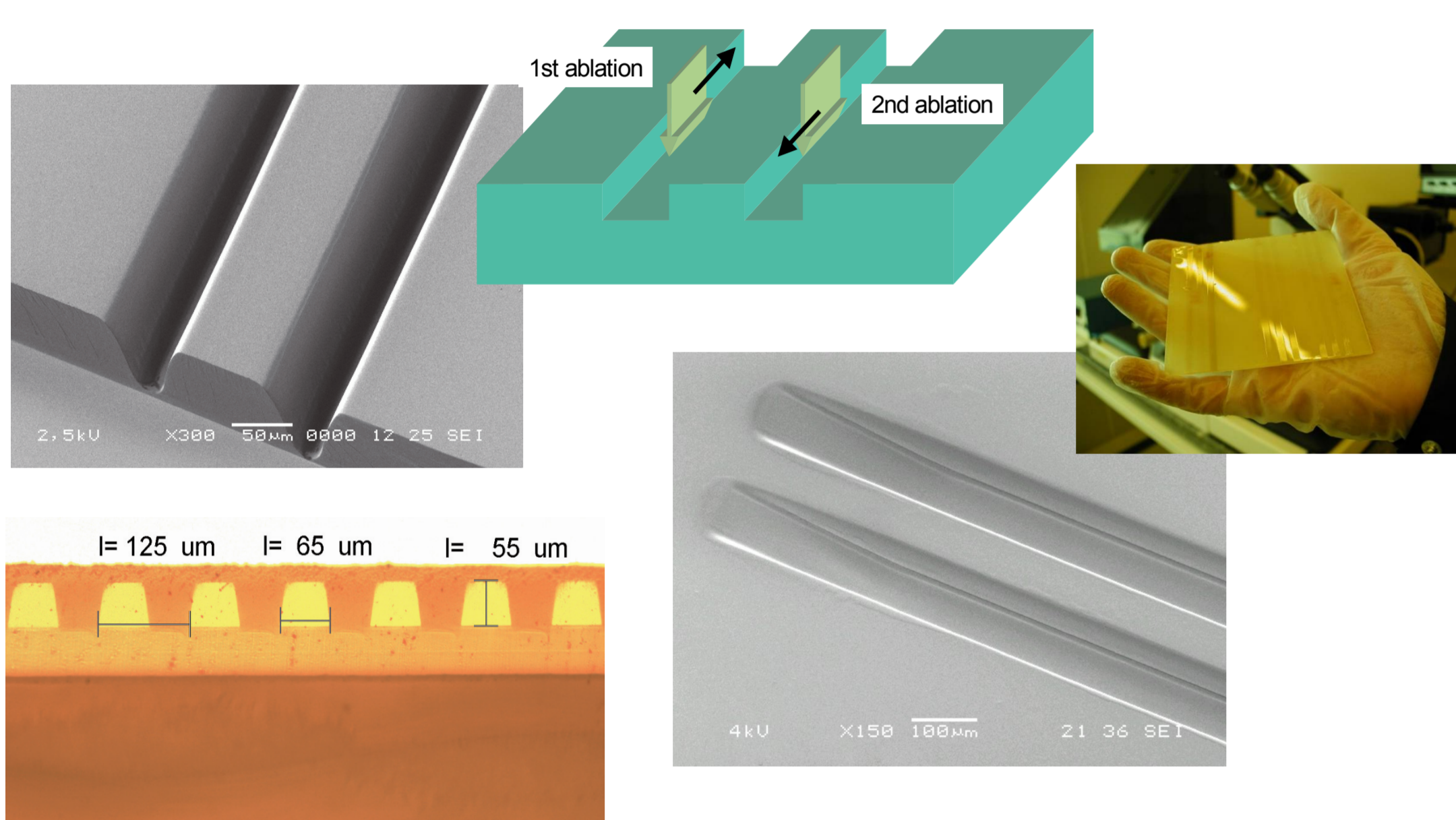


glass fiber termination



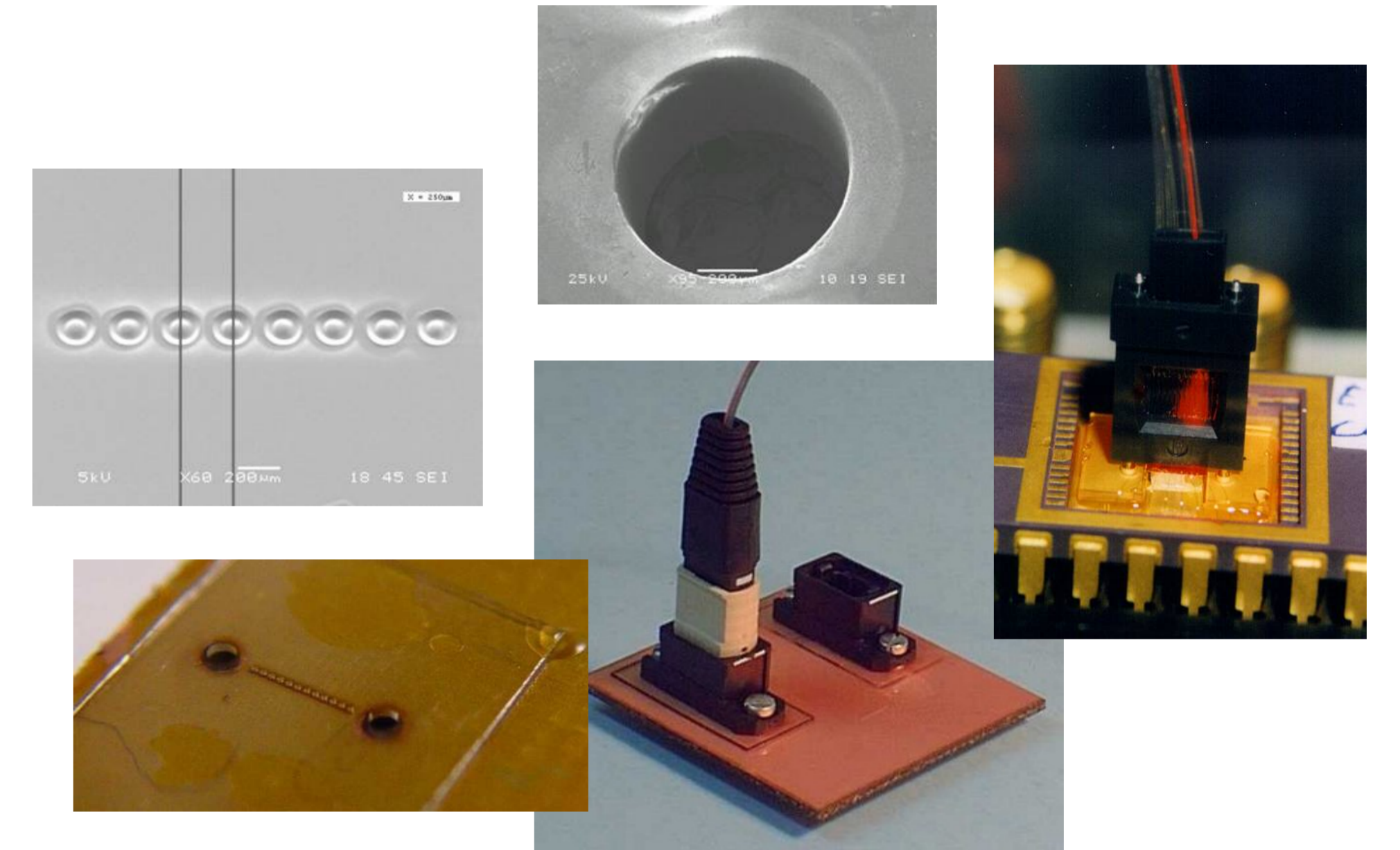
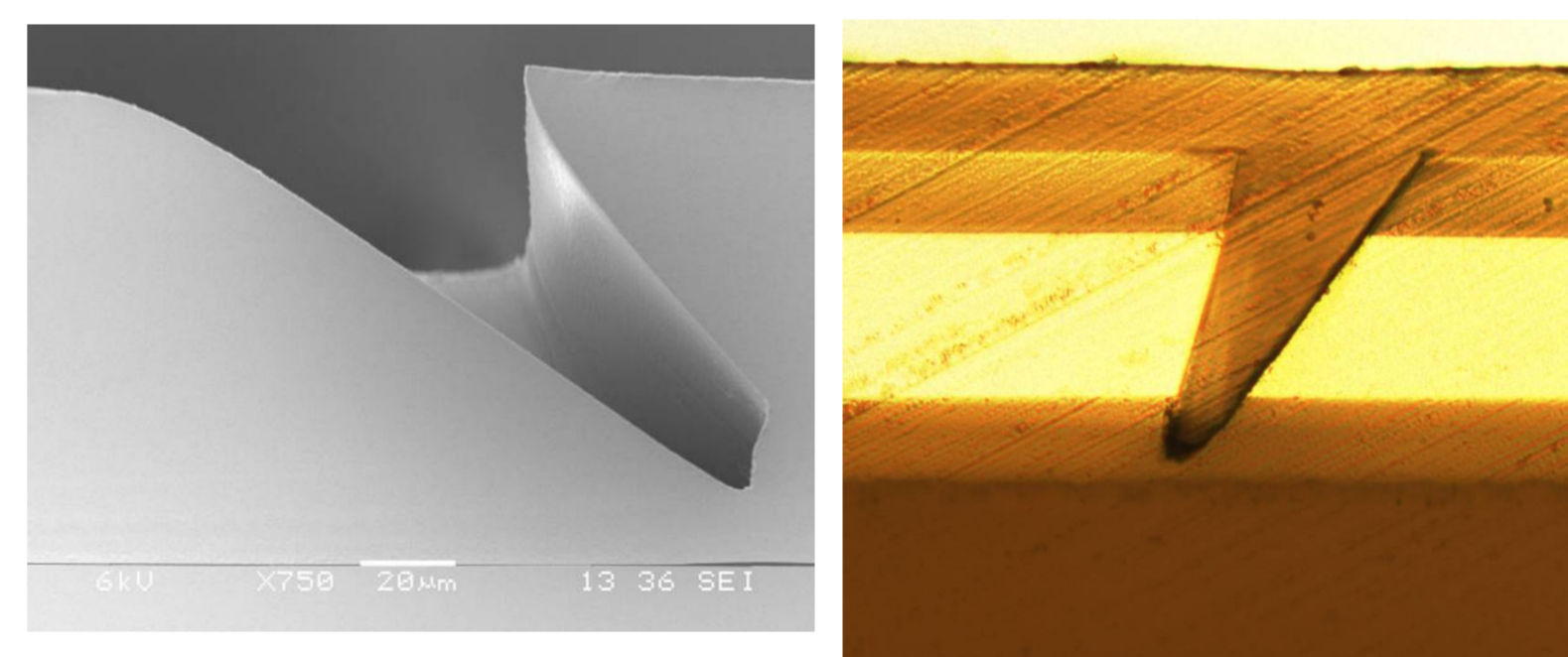
glass fiber polishing

Optical interconnections



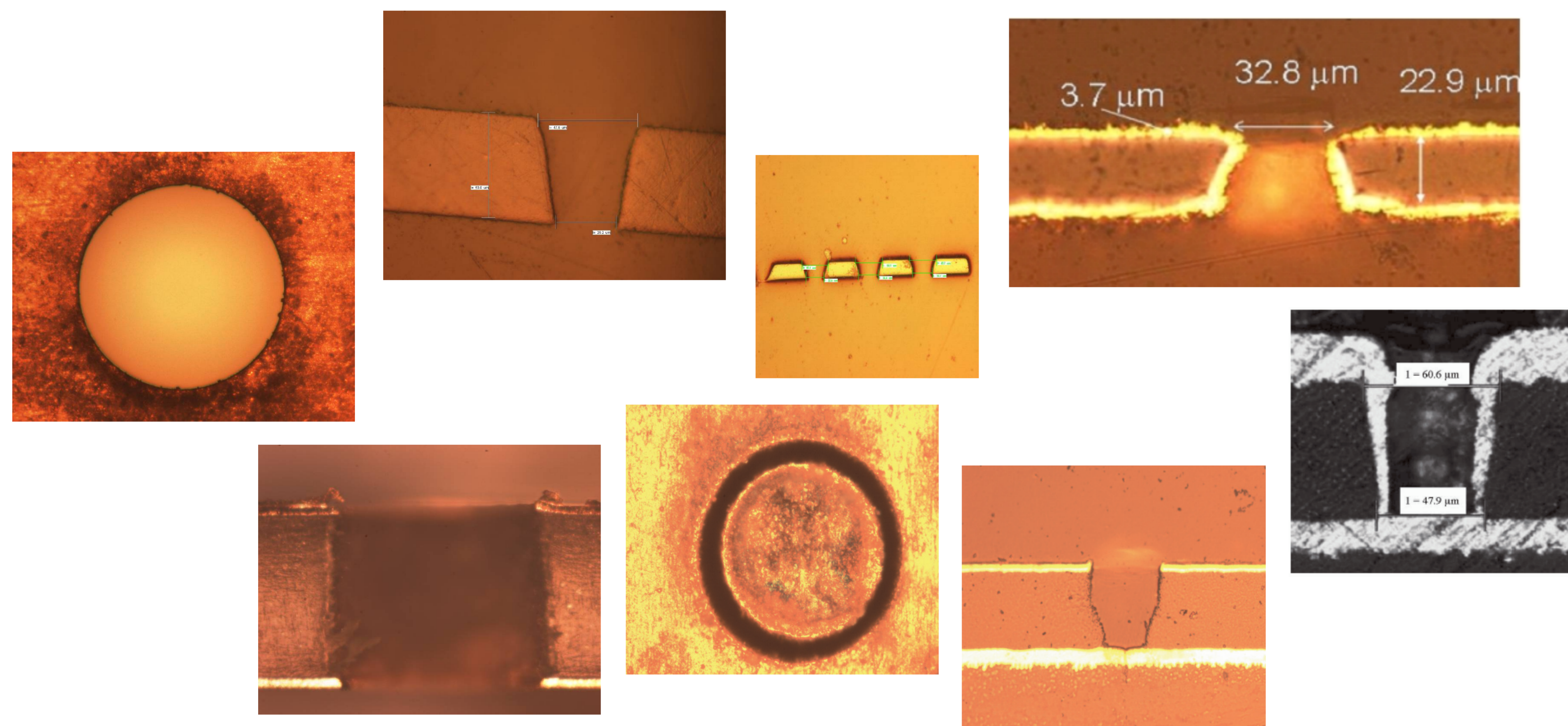
polymer optical waveguides on rigid and flex substrates

45° micro-mirrors



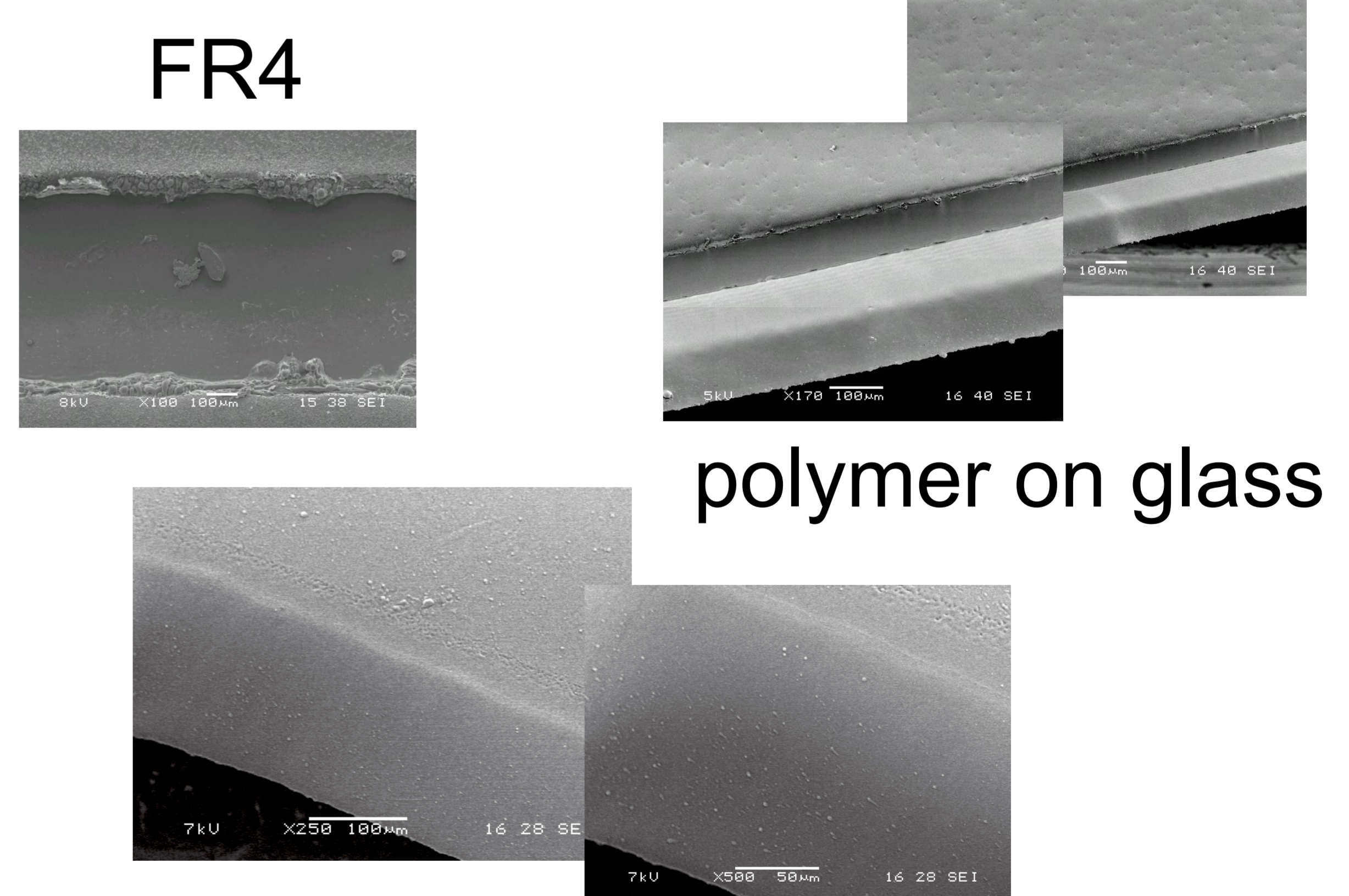
alignment features

Micro-Via's



copper – polyimide – prepreg

Miscellaneous



FR4

polymer on glass

70 μm thin glass sheet



Network of Excellence on Micro-Optics

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