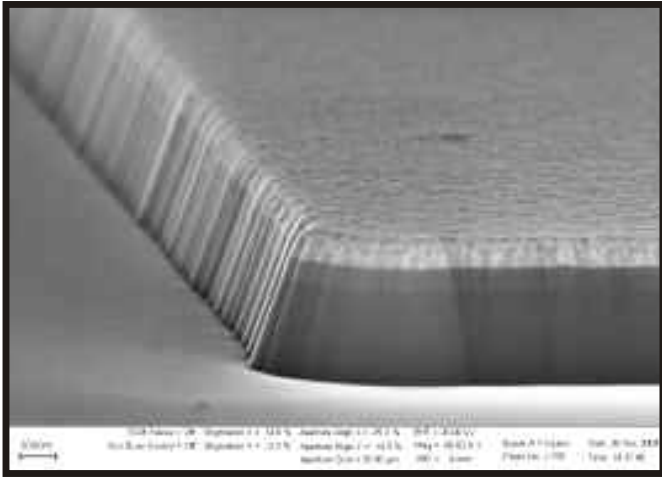
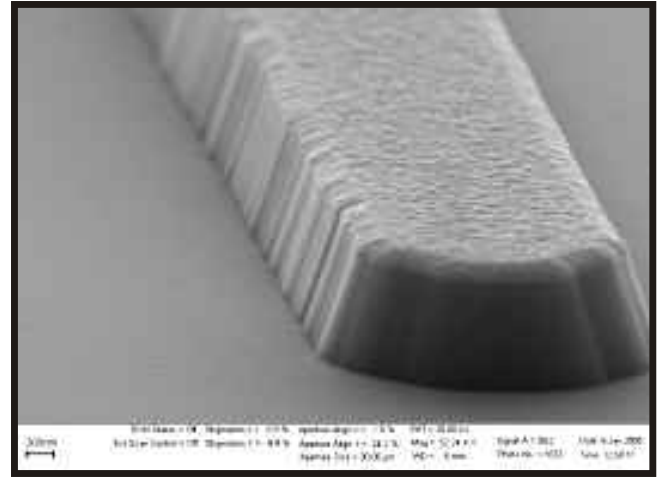


# Plasmalab Data

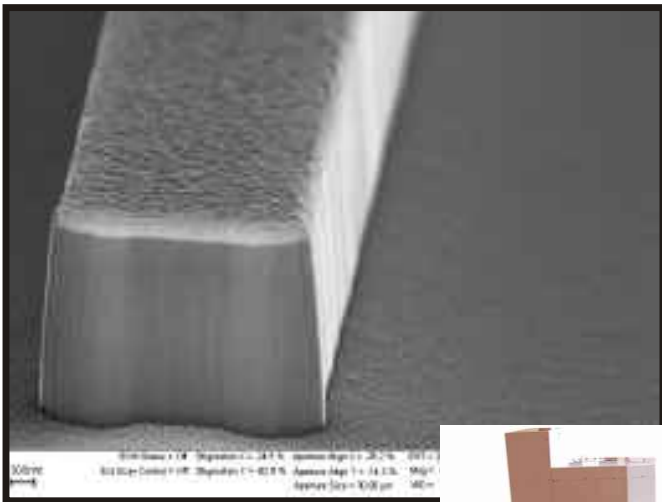
## Cl<sub>2</sub> based InP ICP Etching



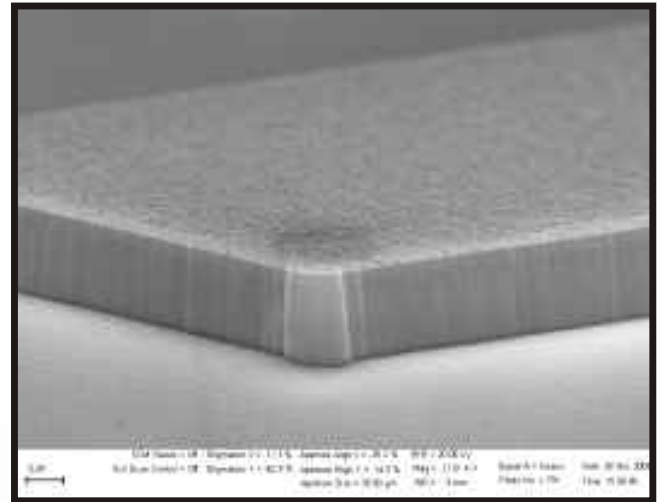
at 40 ° C



at 100 ° C



at 170 ° C



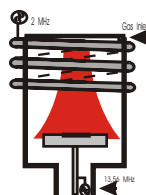
at 170 ° C

*Plasmalab System 100*  
*Plasmalab System 133*

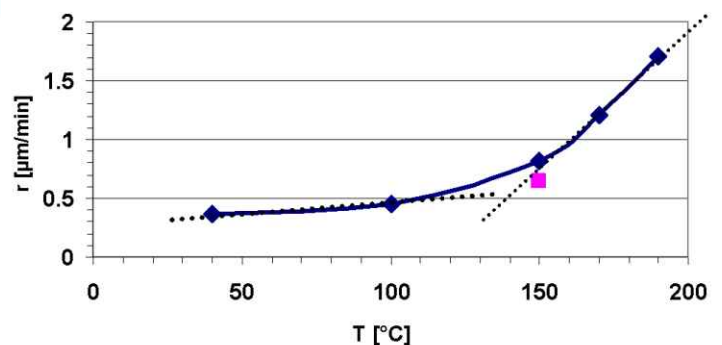


Reactive Ion Etching with ICP Source (2 or 13 MHz)  
 RF driven substrate electrode, Helium backside cooling

surface roughness < 5nm  
 low etch rate (~100nm/min) possible  
 The SEMs show the etch profiles at different temperatures. The Ni mask is not removed.



Etch Rate vs Temperature



InP etch rate vs substrate electrode temperature

with kind permission of  
 Dr Topaloglu, Prof Tegude, University Duisburg-Essen