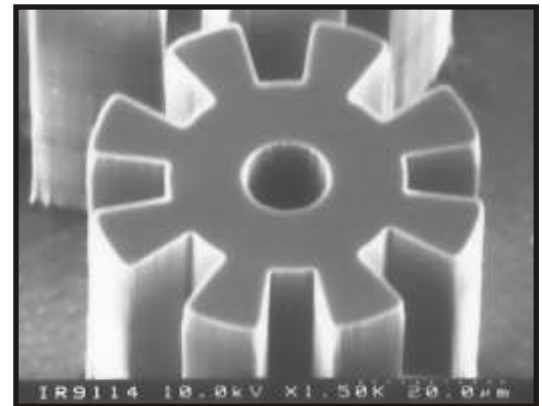
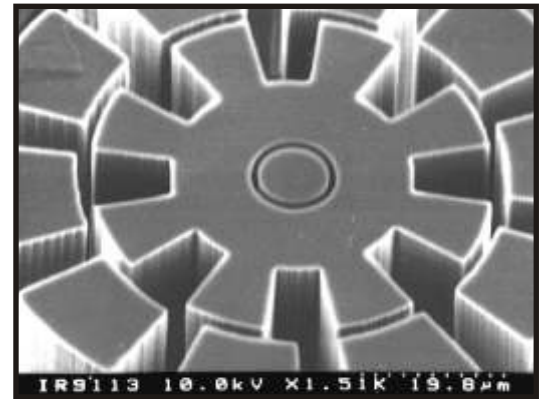
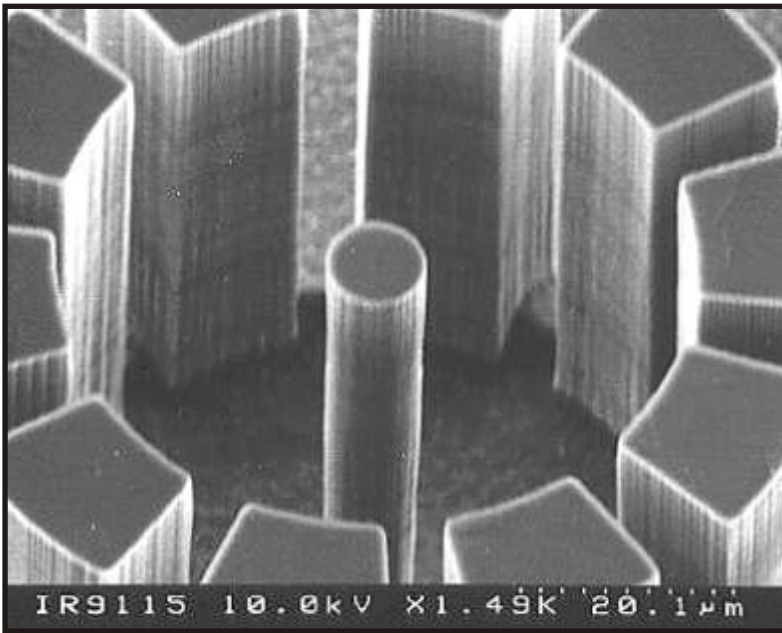
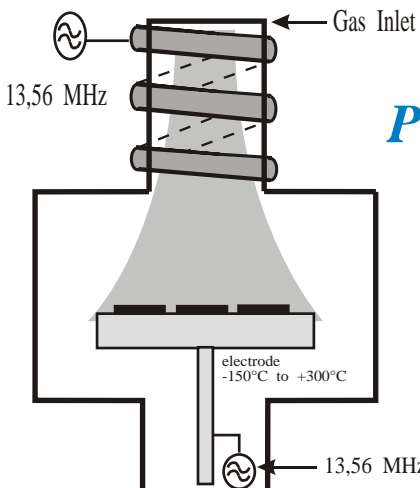


# Plasmalab Data

## Deep Si ICP Etching



40 µm deep anisotropic etch  
Courtesy of University of Kassel  
Institute of Technical Physics  
Dr I.R. Rangelow



### Plasmalab System 100

#### Technology:

- Reactive Ion Etching with ICP Source (13 MHz)
- Inductive Coupled Plasma
- 13.56 MHz Plasma Excitation
- Chlorine based Process
- RF driven substrate electrode

#### Results:

- Rate : 2 - 3 µm/ min with the ICP180
- Rates up to 10 µm/ min are possible with the larger ICP 380 source.
- Selectivity to Photoresist > 100 : 1
- Selectivity to SiO<sub>2</sub> > 200 : 1
- uniformity over 4" wafer: +/- 4 %
- highly anisotropic profile