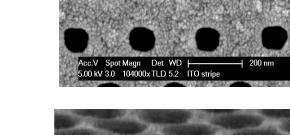
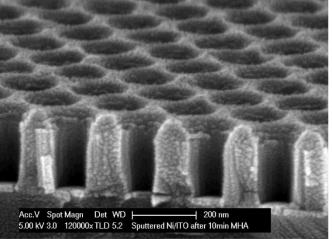
RIE2 - Fabrication of ITO photonic crystals

- In₂O₃ doped with SnO₂ (10% by weight) (Evaporated)
- MHA etch based on InP etching
- Cyclic etching to combat polymer build-up: CH₄/H₂/Ar (4/22/4 sccm) 50mT 500V 5min
 O₂ (20 sccm) 50mT 200V 3min
- Bulk etch rate ~ 35nm/min
- Rate depends strongly on ITO quality
- SiO₂ or SiO₂/Cr hard masks
- Example: ITO PhC with a = 224nm





ITO PhC with SiO₂ hard mask

Elizabeth Rollings