## T. Tiedje

## **Growth and Properties of Epitaxial Films**

- •Electronic and optical properties of impurity semiconductors, dilute bismides and nitrides
- •Surface morphology: continuum growth models using rate equations, kinetic Monte Carlo simulation and experiments on epitaxial films
- •Oxide epitaxy (Y<sub>2</sub>O<sub>3</sub>)
- •MBE growth technology, including surfactant growth, in-situ monitoring, plasma source design
- •Light sources for medical imaging and biophotonics
- •Coherent soft x-ray scattering, speckle