



Andres Trucco, *Engineering Technician & Scientist*

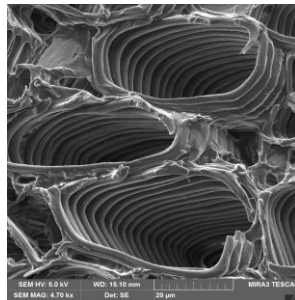
- B.S. in Industrial Engineering, University of Florida
- Specialty areas include:
 - SEM microscopy
 - Materials characterization EPMA EDS
 - Thin film deposition
 - ALD deposition
 - EBL of multi-layered nano devices
- Manage and operate RSC microfabrication teaching labs, safety and orientation training



Microscopy and Materials Characterization



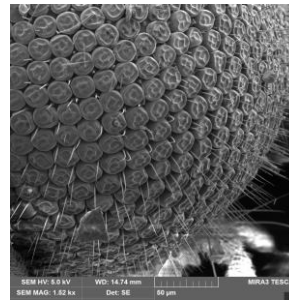
• Mosquito Sensor Organ



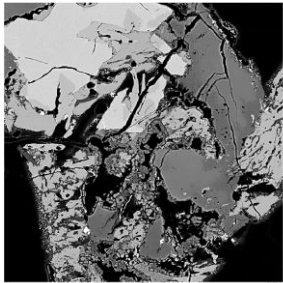
• Poplar Tree Cross Section



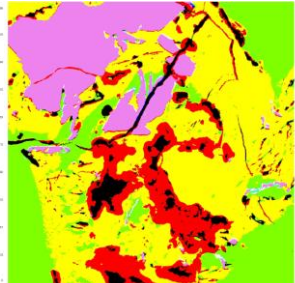
• LED layers Al₂O₃ and GaP



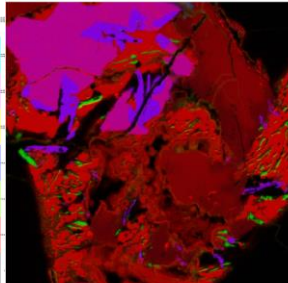
• Mosquito Sensor Vision Array



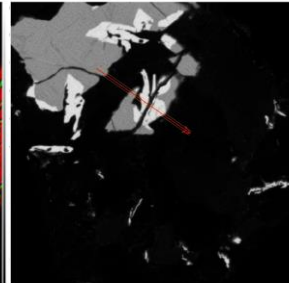
• BSE Z Map



• Zone Map



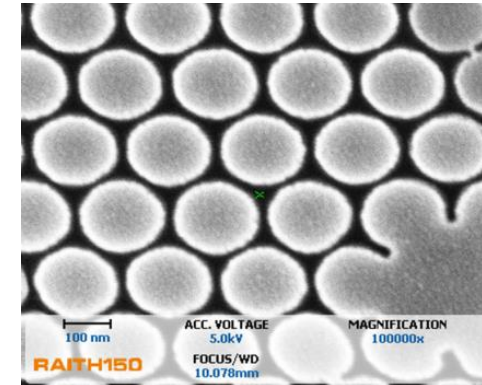
• WDS Elemental Map



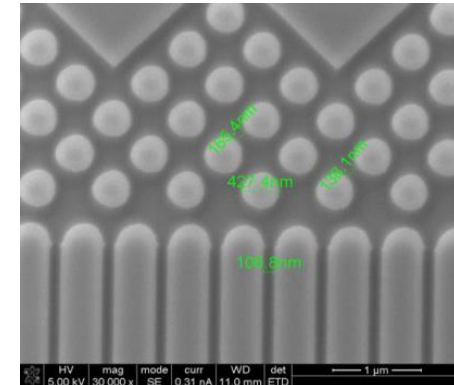
• WDS Ti Map

Nano Fabrication

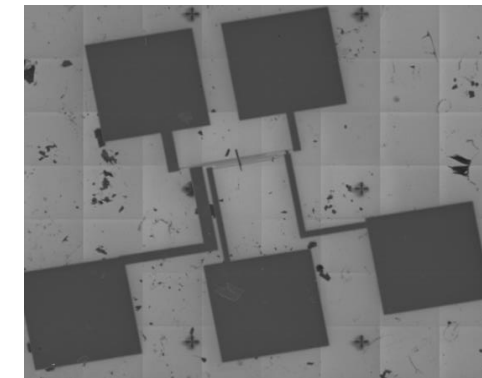
- Nano Photonics Arrays, Nano fluidic devices, 2D material processing.



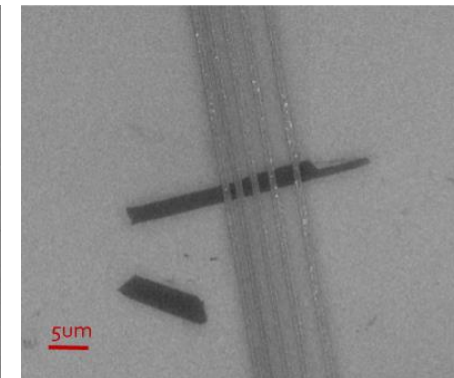
• Ni Photonic Array. 20nm gaps



• Nano Fluidic Sorter



• 2D E-beam Lithography



• 2D E-beam Lithography Moly Disulfide Flakes