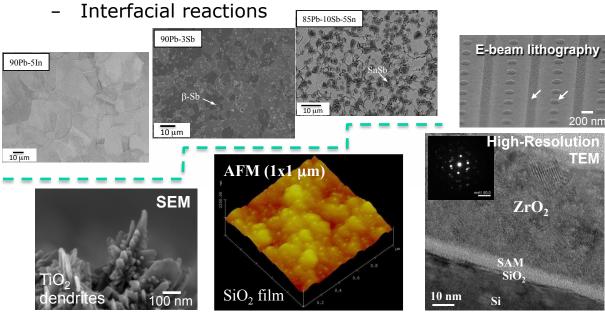
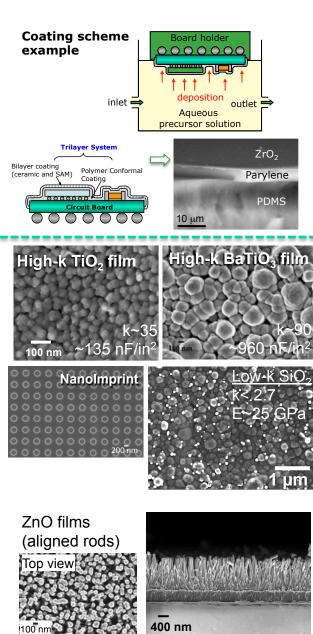
Processing & Microstructure Innovation

- Low-Temperature Processing for Ceramic Films and Coatings (≤ 90°C)
 - Protective / Barrier / Hermetic coatings: ZrO₂, SiO₂,
 SiO₂-Polymer Multilayer
 - High-k dielectric films: TiO₂, BaTiO₃
 - Low-k dielectric films: F-SiO₂
 - Embedded capacitors: TiO₂, BaTiO₃
 - Transparent conductive oxides (TCO): F-SnO₂, Al-ZnO
 - Thin film photovoltaics (PV): TiO₂, ZnO
- Microstructure Design of Ceramics and Metals
 - Oxides: nanoparticles, nanorods/wires, nanoblades
 - Solder alloy design and developments





http://www.ws.binghamton.edu/~jcho/