



Asst. Professor Huseyin Bostanci

Department of Engineering Technology

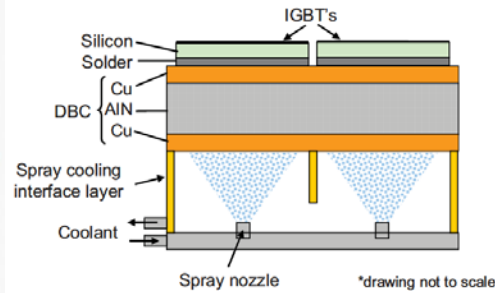
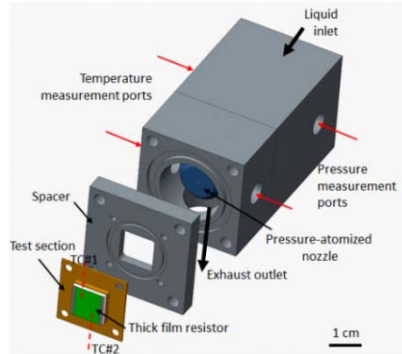
Phase change heat transfer, High heat flux thermal management, Spray cooling, Nucleate boiling, Enhanced surfaces, Innovative Stirling engine development and characterization, Distributed power generation, Waste heat recovery
Research Group: State and Industry Funding; 1 Ph.D., 2 M.S. Students

Two-phase cooling techniques for high heat flux systems



Vapor-atomized spray

simulated chip

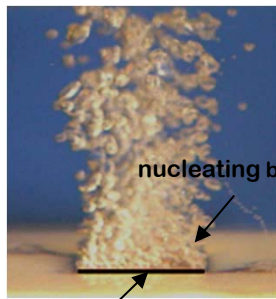


Thermal Management

- High heat flux thermal management for computing, power electronics, electro-optics
- Spray and immersion cooling
- Enhanced heat transfer surfaces
- Expertise in phase change heat transfer processes

Stirling Cycle-Based Energy Conversion

- Distributed power generation
- Waste heat recovery
- Expertise in innovative rotary displacer Stirling engine development



nucleating bubbles

simulated chip

Rotary displacer Stirling engine prototype

