



Asst. Professor Huseyin Bostanci

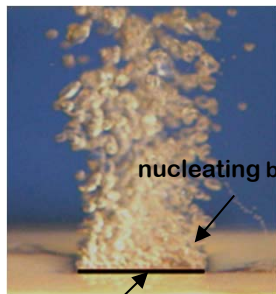
Department of Engineering Technology

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

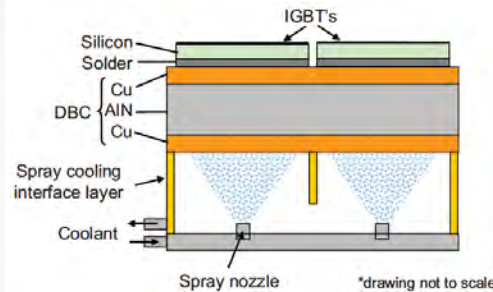
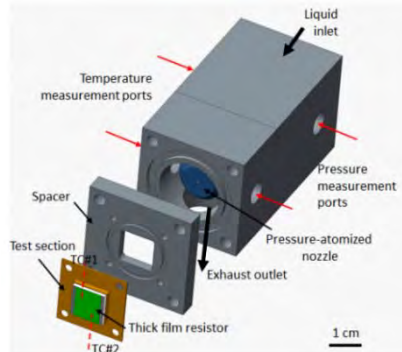
Two-phase cooling techniques for high heat flux systems



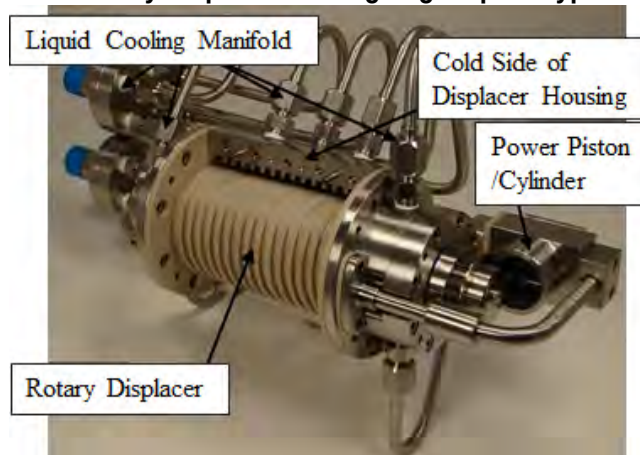
simulated chip



simulated chip



Rotary displacer Stirling engine prototype



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