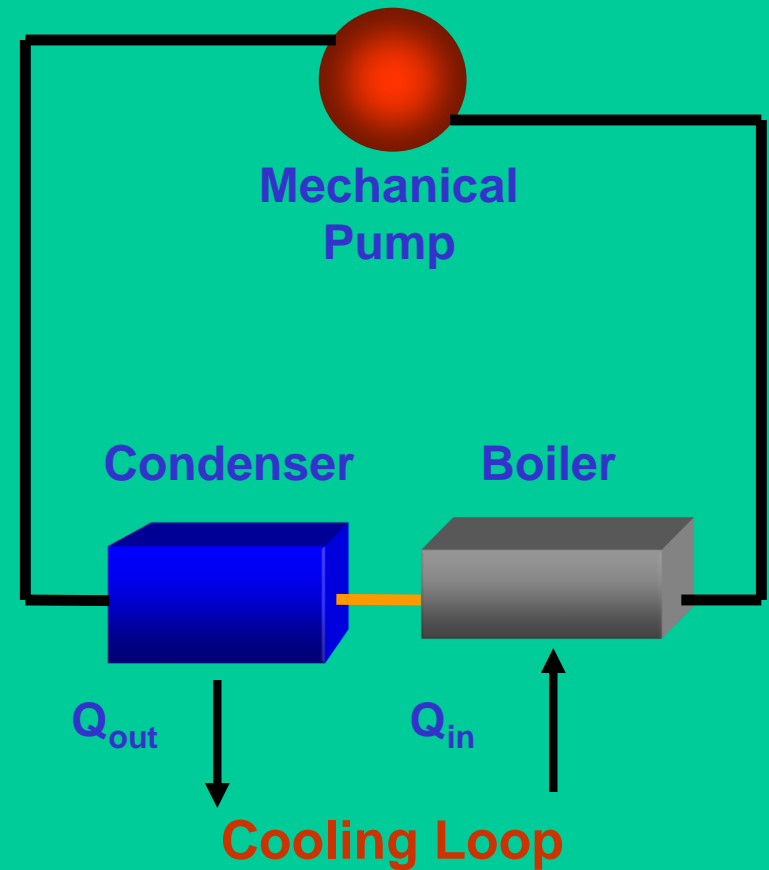
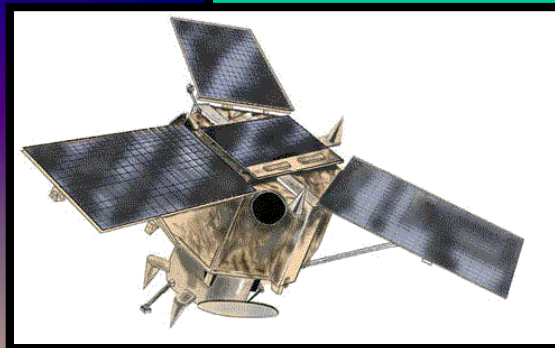
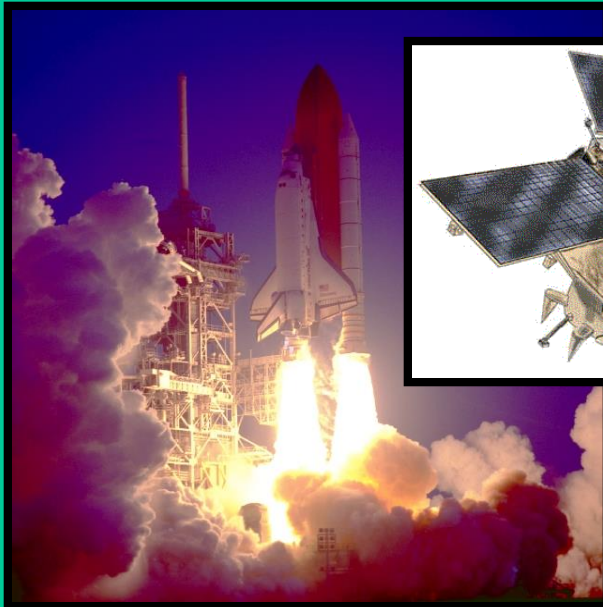
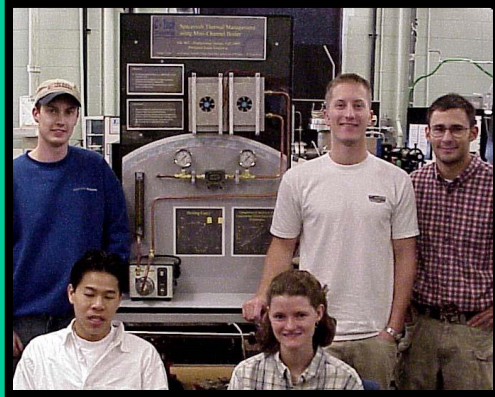


# Spacecraft Boiler

**Project:** Spacecraft Thermal Management using Mini-Channel Boiler

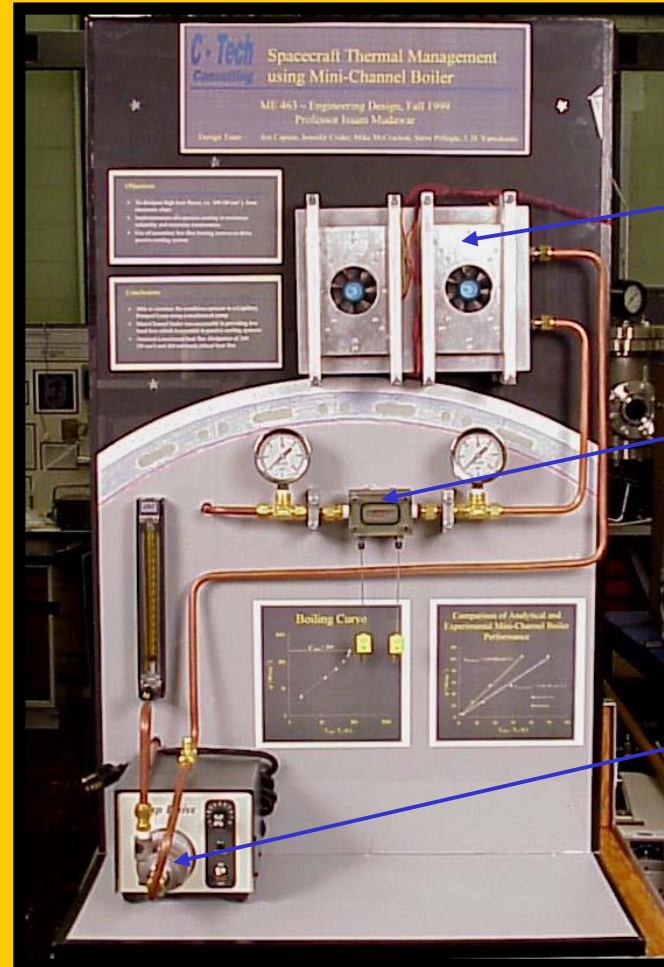
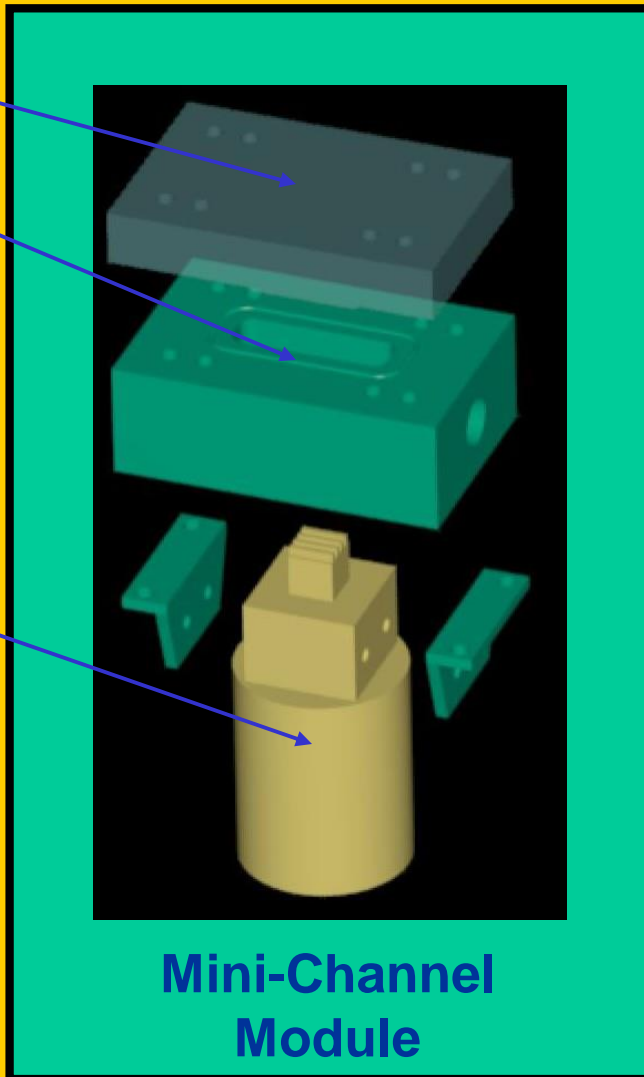
**Team:** Jon Capsan, Mike McCracken, Jennifer Crider, Steve Prifogle, and J. D. Yamokoski



Window

Housing

Heater



## Key Findings

- Boiling occurs at  $104 \text{ W/cm}^2$
- Power dissipation of  $260 \text{ W/cm}^2$  achieved
- At maximum power, large bubbles formed, but critical heat flux never reached

