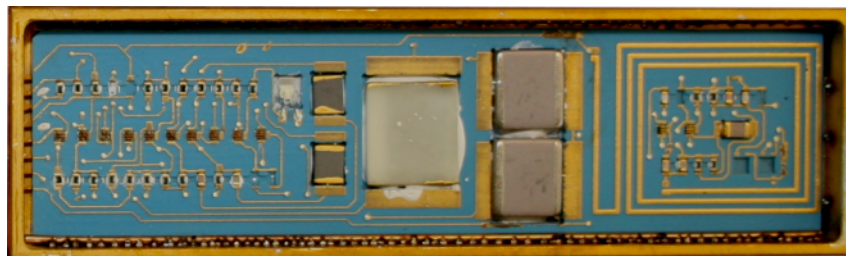
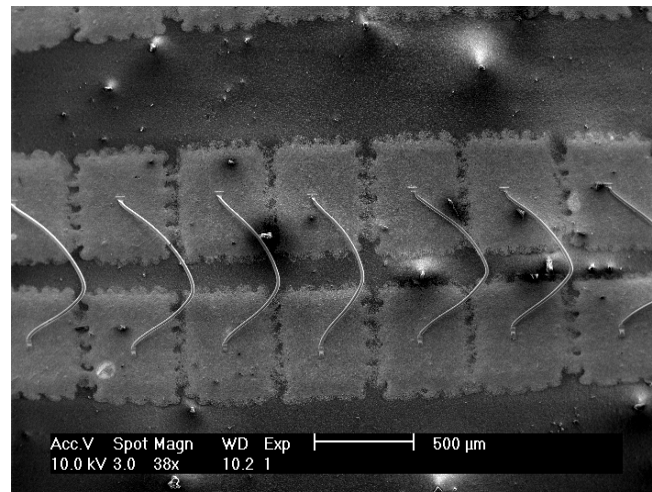


High Temperature Electronics

-Bryon Western (bwester@apei.net)

Ten years ago long term Venus surface missions would have been nearly impossible, now they are just difficult.



450 °C Operation

> 10,000 G Centrifugal Force

Gas Sensing Telemetry System

- Targeting 485 °C Operation
- Wireless FM Transmission
- CVD Diamond Based Gas Sensors
 - Target Gases: OCS, H₂S, SO₂, SO₃, H₂SO₄, Sn, HCl, HF, ClO₂, CO₂, H₂O, CH₄, N₂O, and O₃