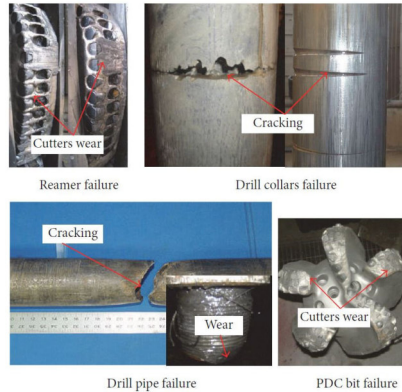
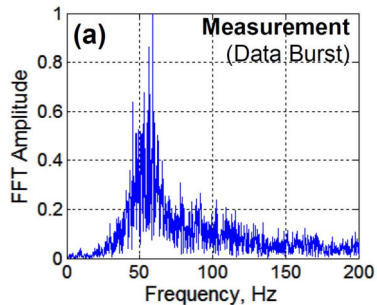
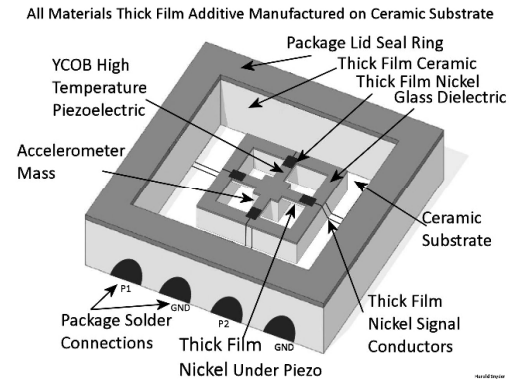


# Geothermal Ready! Accelerometer By Harold Snyder

## The Problem – Vibration & Shock Instability



## The Thick Film Innovation with Package



## Team & Competitive Edge

- Harold Snyder, Applied Physicist/Scientist, US Citizen
- Over Forty Years of Experience in Downhole Systems.
- Expert in High Temperature Electronics & Systems.
- Expert in Thick Film Processing & Design.
- Designed the Accelerometer to Meet Next Gen Geothermal.
- Operational to Beyond Supercritical at 500C.
- Sensor Frequency Bandwidth to > 20 kHz.
- Designed 200C Force Balance Accelerometer System.
- President of Physical Solutions, a Texas Based Company

## The Plan to Achieve the Goal

- ✓ Utilize AM for Rapid Prototype Accelerometer.
- ✓ Optimize Beams and Mass for 20 kHz BW.
- ✓ Simulate Performance to Optimize Design.
- ✓ Optimize Thick Films for Performance.
- ✓ Characterize Thick Films for Simuations.
- ✓ Partner with National Labs & Network.
- ✓ Partner with Stakeholder to Test & Market.