



Dr. Haifeng Zhang

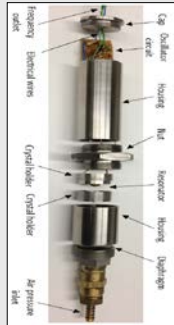
Associate Professor

Department of Mechanical and Energy Engineering

Research area: Smart materials, advanced sensors, energy harvesters, nondestructive evaluation and structural health monitoring.

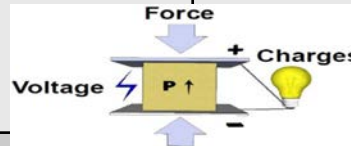
Advanced sensors

- Harsh-environment Pressure sensor
- Temperature sensor
- Gas concentration sensor
- Viscosity sensor
- Current sensor



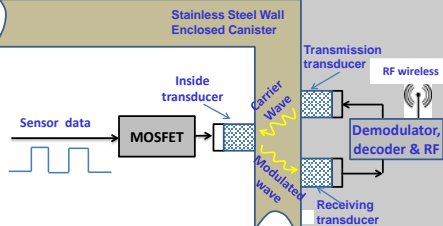
Energy harvesters

- Wide band energy harvester
- Energy harvesting floor



Nondestructive evaluation

- Ultrasonic through-wall communications
- Material properties



Smart materials

Structural health monitoring

- High-temperature structural health monitoring
- Metamaterials

