James F. Lane, P.E.

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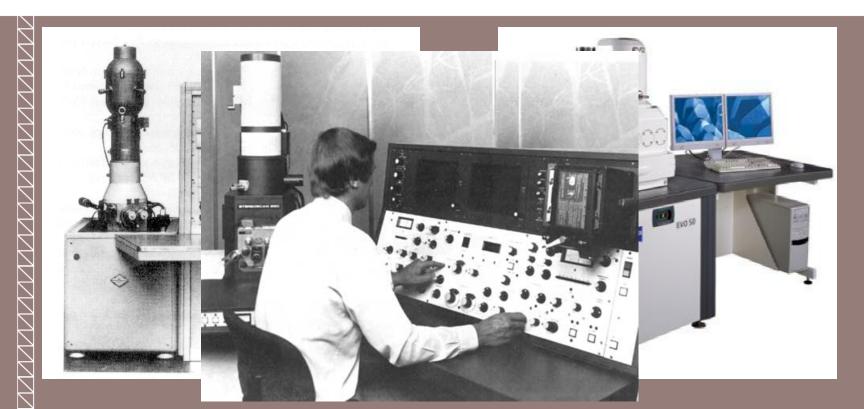
- 30+ years experience performing root cause failure analysis and materials characterization
 - Began working with electron microscopes to characterize fracture surfaces on helicopter components at Sikorsky Aircraft in 1988.



Scanning Electron Microscope (Energy Dispersive Spectroscopy)

- A tool to examine the surface of an object at high magnification (>30,000X)
- Capable of also providing information about the chemistry of the object.
- Transformative tool that has been used for over 80 years.

Then and Now (1950's to 1988 to 2019)



- Metal particles found in a supreme pizza.
- Claimant felt sick and went to emergency room for x-rays.
- Particles removed from the digestive tract of the claimant.

SEM / EDS Analysis

