

READ CONSULTING

THOMAS L. READ, Ph.D.

1435 FULTON ROAD

SANTA ROSA, CALIFORNIA 95403

T 707-544-2374 F 707-544-2370

tread@sonic.net

www.readconsulting.com

PROFESSIONAL ENGINEER: Registered California Professional Engineer: LIC # MF 2174

SUMMARY OF EXPERTISE

1. Over 25 years of experience as a consultant to attorneys in products liability, intellectual property, medical device safety and other litigation. **This includes numerous depositions and court appearances.**
2. 30 years of manufacturing experience in electronics, process and product introduction, plastic sterilization and packaging, device part design, equipment design, equipment quality control, and materials reliability.

MEDICAL DEVICE FAILURE ANALYSIS: (Includes both materials and design)

- **Metallurgical Failures:** Back Supports (Knott & Harrington Rods etc.), Prosthetic Joints (Knees and Hips etc.), Surgical Implants (Heart Pumps and Valves), Metal to Metal Abrasion in Prosthetic Joints, Bone Support Hardware (screws & plates), Vascular Stents.
- **Polymer (Plastic) Degradation and Failures:** Catheters, Artificial Heart Pumps and Valves, Prosthetic Joints, Medical Tubing and Other Plastic Medical Items
- **Ceramic and Porcelain Failures:** Polished Ceramic Artificial Joints (Knees and Hips), Artificial Bone
- **Corrosion Failures:** Galvanic, General; Material Compatibility; this includes materials selection in conjunction with body fluids.
- **Electronic Device Failures:** Implanted Electronic Medical Devices: Pacemakers, Defibrillators, Medical Instrumentation
- **Manufacturing Defects:** Medical Device Manufacturing Defects

PROFESSIONAL EXPERIENCE

1975 - Present	<i>Engineering Consultant</i> in private practice with attorneys and insurance adjusters. 2001- 2001 Senior Metallurgical Engineer and Safety Engineer Rheodyne, Inc. Rohnert Park, CA
1993 - 2001	Chief Metallurgist Komag Materials Technology Inc., Santa Rosa, California
1988 - 1993	<i>Senior Thin Film Project Engineer</i> Deposition Sciences Inc., Santa Rosa, California
1984 - 1988	<i>Thin Film Circuit Engineer, Safety Engineer and Reliability Engineer</i> Microwave Technology Inc., Fremont, California
1975 - 1984	<i>Project Engineer, Safety Engineer and Project Manager</i> Hewlett Packard Co., Santa Rosa, California
1974 - 1975	<i>Senior Project Engineer</i> Optical Coating Laboratories Inc., Santa Rosa, California
1972 - 1974	<i>Senior Process Engineer</i> Corning Glass Works, Corning, New York: Included glass finishing and glass failure analysis.
1969 - 1972	<i>Engineering Consultant</i> Failure Analysis Associates, Stanford, California: Aided engineers with failure analysis.

ACADEMIC DEGREES

1. Stanford University, Ph.D. *Materials Science and Engineering*, 1972
2. Stanford University, MS *Materials Science*, 1969
3. University of Pennsylvania, BS *Metallurgical Engineering*, 1965

ADDITIONAL SKILLS

Fluent in written and spoken Spanish