

Company Profile

Talbot Associates now provides metallurgical evaluations and failure analysis for a variety of applications.

Dr. Wayne Reitz : metallurgist, hands-on engineer, registered Professional Engineer
Metallurgical investigations determine if failures and accidents were caused by:

- abuse,
- use of wrong material,
- improper heat treatment,
- design errors,
- or other reasons.

Talbot Associates continues to provide failure analysis in the disciplines of **Mechanical, Civil, and Structural Engineering.**



Reitz's Industrial Experience

- solve manufacturing and performance problems (corrosion, microstructure, diffusion bonding),
- perform failure analysis,
- participate on design teams and responsible for material performance,
- examine microstructure and determine resulting affects on corrosion performance, and
- perform experiments to characterize materials at various process steps.



Reitz's Education

PhD – Oregon State University, Mechanical Engineering (Metallurgy focus)

MS – Georgia Tech, Metallurgy

BS – Georgia Tech, Nuclear Engineering

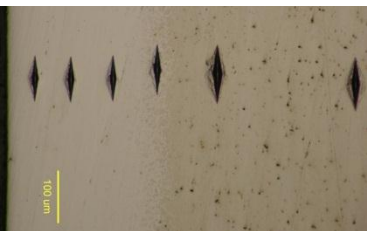
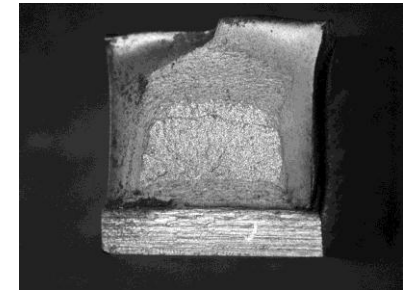
Reitz's Employment

Babcock & Wilcox – 17 years in Materials Group, assigned to various locations in VA, OR, UT, CA.

North Dakota State University – taught in Mechanical Engineering department, 1997-2011.

Reitz Consulting – performing metallurgical investigations and failure analysis 2000 to 2011.

Talbot Assoc. - metallurgist since 2011.



Typical Metallurgical Projects

Material processing
- coronary stent (processing parameters)
- SS corrosion (Water Treatment Plant)
- Plate cracking (in inventory)
- graphitization (Carbon Steel)
- laser surface cladding
Material Abuse
- lack of fit-up (Power Line Tower)
- over-tightening bolts (Columbaria)
Material Properties (Design)
- rubber relaxation
- cast iron heat exposure
- bolt threads in double shear
Material Selection
- water treatment plant
- aluminum alloy for fishing net
Product liability
- ATV rollover
- Pedestal chair
- Shotgun explosion
Corrosion - Copper plumbing
Wear - Engine bearings
Weld repair - ductility

Metallurgical Training

Short courses tailored to meet your organization's needs:

- Basic Metallurgy,
- Surface Engineering,
- Failure Analysis,
- Heat Treating,
- Non-ferrous materials,
- Corrosion Fundamentals
- and more

These courses will also meet the Continuing Education requirements for Engineering Registration.

Call to discover how Talbott Associates can fulfill your metallurgical needs.

Wayne Reitz, Ph.D., P.E.

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Specializing in:

Forensic and Consulting Engineering

in the Disciplines of:

Civil,

Mechanical,

Metallurgical, and

Structural Engineering

