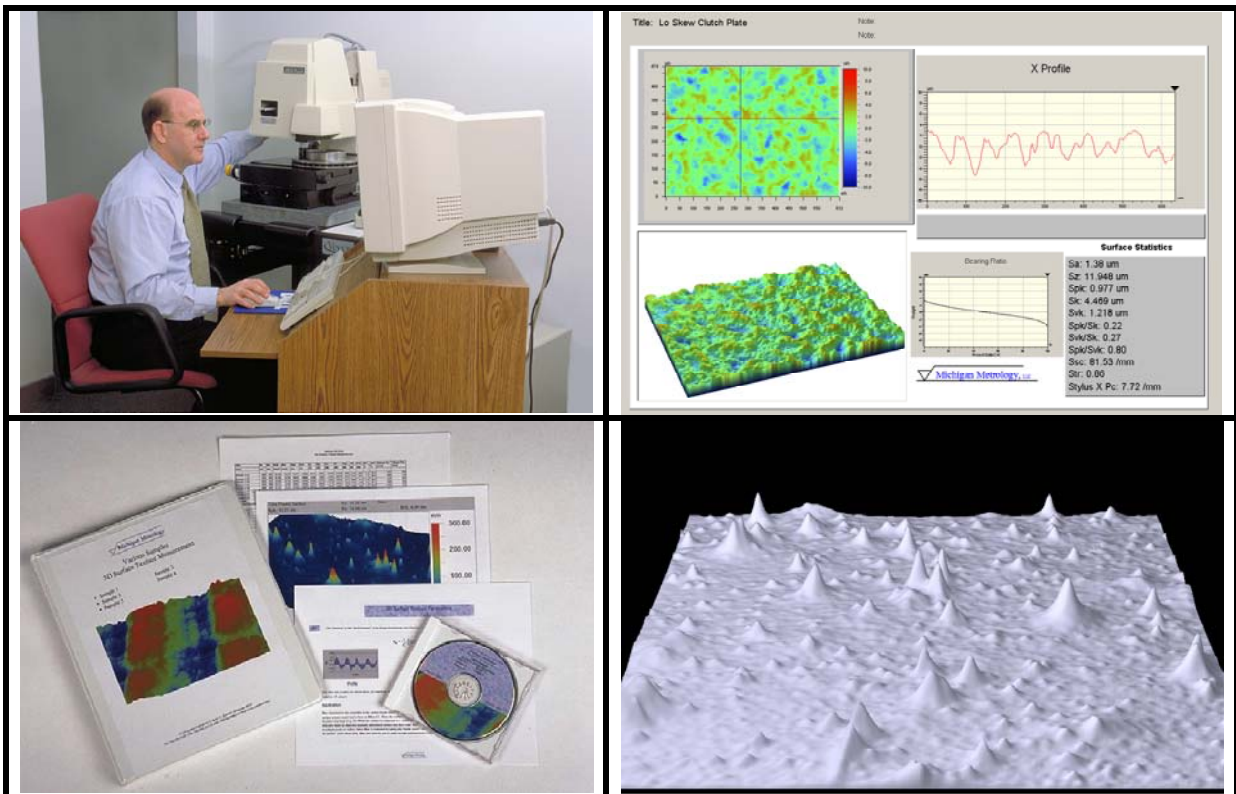


3D Surface MicroTexture Measurement/Analysis/Inspection Services

Since 1994, [Michigan Metrology](http://www.michmet.com) has been helping industry solve problems related to “squeaks, leaks, friction, wear, appearance, adhesion...” by providing 3D Surface MicroTexture/Wear Measurement, Analysis and Inspection services. Many development and production problems have been addressed including:

- Component failure modes – mechanisms, sensors...
- Friction optimization – biomedical implants, clutch plates, gears,
- Wear quantification – powertrain components, electronic components...
- Fluid handling leaks – seals, brake systems, fuel delivery systems...
- Noise, Vibration and Harshness – gears, brake rotors, transmissions...
- Appearance/Adhesion – polymer coatings, metal films...

Having completed 1000’s of projects for 1000’s of clients, Michigan Metrology has provided solutions for the Automotive, Biomedical, Aerospace, and Materials industries.



Dr. Cohen has degrees in Physics and Optical Sciences. Early in his career, Dr. Cohen worked with IBM on optical disk drive development. He later joined WYKO Corporation as Product Manager and eventually Vice President, developing 3D surface texture metrology instrumentation. In 1994, Dr. Cohen established Michigan Metrology LLC. Dr. Cohen has been active with the Society of Tribology and Lubrication Engineers (STLE) and currently serves as Chairman of the ASME B46.1 committee on surface texture.

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Training/Consulting/Engineering Services

Since 1994, [Michigan Metrology](http://www.michmet.com) has been helping industry solve problems related to “squeaks, leaks, friction, wear, appearance, adhesion...” by the use of:

3D Surface MicroTexture Measurement and Analysis.

As result of the many projects completed, a full day class has been established that addresses issues related to:

- Intro to surface finish ...why is it important?
- Instruments for measuring surface finish (stylus, optical, AFM...)
- Filtering of surface finish measurements (2RC, Gaussian, Cutoff Lengths...)
- Surface finish parameters (Ra,Rz,Sa, Spk, Sdr, Ssc.)
- Wear (scoring, scuffing, galling, wear volume, wear depth...)
- Friction (dry/lubricated/rolling -how does surface finish relate to friction?)
- Sealing (gaskets, O-Rings, Lip Seals, Piston Rings...)
- Surface Energy/Wetting
- Correlation between non-contact and contacting systems
- Specifying surface texture (symbology)

This class may be presented at your location throughout the year and may be tailored to include time for consultation/training at your facility. This class is also typically offered once a year in the Livonia, Michigan area.

