

SIGNALYSIS™

Delivering the Sound of Silence

SIGNALYSIS NEWS

APRIL 2021

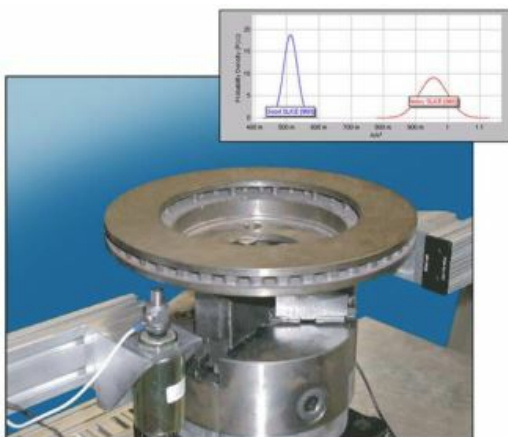
*To deliver the ultimate solution experience to our customers
with unsurpassed integrity!*

At Signalysis, we apply nearly 25 years of practical hands-on experience to eliminate subjective testing. Quantifying customer complaints and other objectionable noises allows our customers to consistently deliver defect-free products.

We're all about *going the extra mile*. Let us show you how.

[Visit our Website](#)

Brake Pad Quality Inspection



Brake system failure can result in:

- Scrapped Parts
- Excessive Warranty Claims
- Product Recall
- Lost contracts
- Litigation

Suppliers must be certain that products meet customer expectations and rigid quality standards. Signalysis brake pad quality inspection test systems provide objective, automated 100% inspection.

[Read More](#)

Non-Destructive Testing

Non-Destructive Testing (NDT) is a broad testing approach encompassing a range of

applications, techniques, and technologies.



You probably know that Signalysis offers NDT solutions including [The Dinger](#) which applies a known excitation force and measures vibration to identify the resonance frequencies of the structure.

Let's broaden our horizons a little and learn more about NDT from a different perspective. In this SMD Radio interview PNDE president, Mark Kohler provides a high-level overview of his organization and the various NDT methods.

Let's Meet: Andrew Whitely



Andrew is our newest Sales Manager. In this position he serves manufacturing companies throughout Ohio and Northern Kentucky.

Let's get to know him a little better in this short video.

Case Study: Medical Devices



Medical and dental devices range in size from micro-surgical instruments to large scanning equipment. But regardless of size or type, there is no margin for error when it comes to product performance and quality.

Noise and vibration plays a huge role in patient safety and annoyance, and surgeon comfort. Consider the case where noise caused by defective parts or bearings provoked a patient into moving during x-ray scanning. The result is a second dose of radiation just to get the picture right.

Case Study

2021 Quality Inspection Testing Seminars

Like everything else in this world, our one-day seminars are temporarily on hold. But we'll be back as soon as we're all able to travel safely.

These seminars provide a basic



understanding of sound and vibration principles. Attendees will also learn about end-of-line quality inspection systems. Additionally, sessions include an introduction to our quality inspection software, SigQC™.

Do you have a seminar location to recommend? If so, contact us [here](#).

Whose News

We're pleased to welcome Jerry Nieb and James Raike to the team. We're spotlighting James in this edition's "4 Questions 4" profile. We'll get to know Jerry a little better in the next issue of this newsletter.



Jerry Nieb

Jerry is a registered Professional Engineer with 40+ years experience in the automotive, manufacturing, metals, defense, medical and aerospace industries. He has designed, developed, and installed numerous data acquisition and process monitoring systems.

His career highlights include an association with the Yamaha motoGP Factory Racing team. He's pictured here, at Laguna Seca with Yamaha factory rider and 3-time motoGP World Champion Jorge Lorenzo.



James Raike

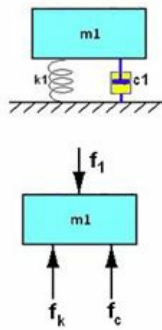
James Raike is Shop Manager for Signalysis. In this role he is responsible for the fabrication and assembly of many of the components in our quality inspection test systems.

A native Cincinnati and father of one, James attended Elder High school and he spent my years after graduation in various production roles.

Want to learn more? Perfect, here's [4 Questions 4: James Raike!](#)

White Paper: Vibration Theory

A discussion of vibration theory usually begins with the analysis of a simple mass, spring and damper system. This is because once you analyze the



Hook's Law: $f_k = kx$
 (force equals stiffness x displacement)

Viscous Force: $f_c = cv = c\dot{x}$
 (force equals viscosity x velocity)

Newton's 2nd Law: $\sum_{i=1}^3 f_i = ma = m\ddot{x}$
 (sum of forces equals mass x acceleration)

vibration process for this system you can then apply the results to the most complicated vibrating structure.

Read the Paper

We are hiring!

(still need more help in conquering the world!)

Signalysis is looking for qualified Sales Representatives.
 To learn more contact:

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Tel: 513.404.3847

Quality Solutions Close to Home

No matter where you are, Signalysis has you covered. We're partnering with some of the industry's most respected sales organizations to put product quality solutions right in your back yard.

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Did you know... We Literally Wrote the Book on Sound & Vibration

Nobody knows sound and vibration like Signalysis. And we're making copies of Bob Coleman's book available to you.

Follow the link below to request your copy of "Experimental Structural Dynamics: An Introduction to Experimental Methods of Characterizing Vibrating Structures" while they last! [Learn more here.](#)

Request a Copy



To deliver the **ultimate solution experience** to our customers
with **unsurpassed integrity!**

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