



# ASSET INTEGRITY UPDATE

**JULY 2021**

*Sensor Networks is an engineering and manufacturing company focusing on three major product lines. This edition of SNI's quarterly newsletter is centered around ultrasonics with the focus primarily on the various applications that transducers solve in NDT and other fields.*

Our first section is a series of articles titled "It's All About the App." But before we begin, what is an "app?"

In UT, the app, or application, is where the following four elements intersect:

1. A component needing measurement, inspection, or testing.
2. An ultrasonic system consisting of a calibration reference standard, couplant, fixturing, a transducer, and an instrument to pulse the transducer and display its signal response.
3. A procedure including set-up, calibration, and a scan plan – whether documented or verbally communicated. Acceptance and rejection can be part of the procedure... or not.
4. A qualified technician or machine capable of integrating steps 1 – 3 above.

***"The transducer can enable and/or optimize the UT exam."***

Those of us who have been in the field of Industrial UT for many years have seen a wide range of applications driven by technology evolution, both within NDT and from the customer's side. It is everchanging, making applications both interesting and dynamic.

Every industry, from aerospace to nuclear power to oil & gas refining, has its own range of unique components and UT inspection challenges.

In this issue, we interview seven SNI employees, each having decades of UT experience, and ask them: "What is your favorite app and why?" Click through to read their stories!

## What's Your Favorite App?



### Bruce Pellegrino: Corrosion never sleeps

To read about Bruce's 43-year journey in the NDT business, please click the button below.

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### Dane Hackenberger: Gone with the Wind

To read about how Dane designed a transducer to inspect wind turbines, please click the button below.

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### Tom Jenkins: Keep those big birds safe to fly

To read about how Tom created an inspection for a corroding aircraft engine component, please click the button below.

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### Jeff Anderson: Houston - we have a problem

To read about Jeff and his involvement in the Deepwater Horizon Oil Spill, please click the button below.

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### Jim Barshinger: A Diamond is a Ph.D.'s best friend

To read about Jim and his use of ultrasonic transducers to create gem scanners for authenticity, please click the button below.

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### Bob Shaffer: Increased productivity using PAUT

To read about how Bob simplified an inspection by using PAUT, please click the button below.

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### Jim Shimp: Flying towards a safer future

To read about how Jim and the SNI team produced 1600 PAUTs in under three weeks, please click the button below.

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## More Updates!

### 'Best in Class' TOFD Probes

Here at SNI, our skilled team utilizes the time-of-flight diffraction (TOFD) method to test for imperfections in the metals you need inspected. Please click the button below to read about the benefits that come with SNI's controlled approach to crafting our TOFD transducers and how we compare to our competition.

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## UT CATALOG 6.0 COMING IN JULY

New additions to 6.0

- ABFP Integral-Wedge Transducers
- Expanded Phased-Array section with new arrays and wedge information
- 15 MHz Pencil Probes
- Information on Industrial Applications for SNI products
- And more!

## Product Lines



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