



Two recent, well-publicized events have brought home the life-saving importance of non-destructive testing. Recently, the Carowinds amusement park in North Carolina shut down its Fury 325 roller coaster after frightening video circulated of a crack in a key support beam visibly sliding open unsuspecting passengers zoomed over it at high speeds. Fortunately, the amusement park shut down the ride before anyone was injured.

The outcome was far more tragic in the case of the Titan submersible, which suffered an implosion on the ocean floor that claimed five lives. Reportedly, the submersible had not undergone any NDT testing. It is heartbreaking to consider that procedures such as ultrasonic testing and radiography may have helped to rewrite the Titan's fate and spared five families a world of pain.

When it comes to the integrity of structures, guesswork is never good enough. You need the latest tools and technologies — and a team of eagle-eyed inspectors — to ensure the safety and success of your equipment. For example, the Carowinds amusement park plans to begin using drones to inspect hard-to-reach areas — and that can't be done by just anyone. It's important to call upon the right expertise and experience.

In this newsletter, you'll learn:

- How IIA can help when you're [puzzled about polymers](#). (You'll also meet resident expert and self-described "polymer nerd" [Carly Fischer](#).)
- Why our [Lift Services](#) team recently worked around the clock to complete one customer's required testing.
- How our [mobile live-line tool testing labs](#) maximize convenience and minimize disruptions for customers.
- What [non-destructive examination \(NDE\)](#) is and why it is necessary.
- How [RVI](#) and [drone inspections](#) minimize downtime and costs.
- How to [quickly re-establish](#) performance of your piping system.
- The full spectrum of [engineering services](#) you'll find at IIA.

Whatever your industry or need, your safety and success are our priorities. Call or email me today to put our team and technologies to work for you.

Sincerely,

[Doug Vail](#)

Chief Revenue Officer
Industrial Inspection & Analysis

Puzzled About Your Polymers?

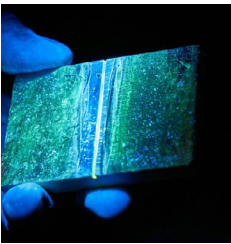
While few of us could define a polymer, we all use them in everyday products such as diapers, nylon, plastic, furniture, pharmaceuticals and coatings on the microchips in our phones. When you need answers about the polymers in your products, [IIA can help](#). Our polymer analyses provide detailed data about the chemical and physical properties of polymers — information that can aid in quality control and product improvement.





Lift Services Team Rallies to Keep Customer in Compliance

It was 6 p.m. on a Friday. As most people wrapped up their work week, Robert Roedell, IIA's Midwest Operations Manager of Lifting Services, learned that severe rain during the week had delayed scheduled inspections for a valued IIA customer. Unless required inspections were completed by the following day, the customer — a major Midwestern utility — could face compliance issues. [Read how](#) the IIA team rallied to keep this customer in compliance.



Non-Destructive Examination: What it is & Why it is Necessary

Non-Destructive Examination (NDE), also known as Non-Destructive Testing (NDT), is the process used

to examine components and materials without destroying or altering the component, item, system or material's usefulness. NDT (also known as NDE) is commonly used to detect measurements, defects and flaws. From bridges and trains to airplanes and automobiles, [read why](#) NDE is integral to safety, integrity and reliability.

A Passion for Polymers



If polymers ever need a PR person, Carly Fischer is a shoe-in. Brimming with enthusiasm for organic chemistry — and polymers in particular — Carly brings expertise and passion to her role as Chemist in our St. Louis testing lab.

"The applications for polymers are endless. I think they're really great," says Carly. "I am a big nerd for polymers. If you have questions about your polymers, there's a good chance we can answer them." [Meet Carly](#).



Jack of All (Engineering) Trades? We Master Them, Too!

When you partner with IIA, you gain access to a vast and collaborative network of experienced engineers, skilled technicians, specialized inspection tools and testing labs. Many of our licensed engineers hold multiple advanced degrees and certifications and have spent years working in the field. Learn more about our capabilities in [Structural Engineering](#), [Mechanical Engineering](#) and [Welding & Materials Engineering](#).

Elevate Your Expectations with Drone Inspections from IIA

Smokestacks. Elevated conveyor belts. Amusement park rides. For complex inspections, drones are fast becoming the go-to option, replacing helicopters, scaffolding and other costly measures. While scaffolding can take days or weeks — and hundreds of thousands of dollars — to erect and dismantle, a drone inspection can often be completed within hours. [Learn about](#) IIA's drone inspections, featuring confined space and infrared capabilities.



Tackle Tough Inspections with RVI

Cracks, corrosion, holes and debris — all can wreak havoc on systems from the inside out. Remote visual inspection (RVI) reveals internal risk factors that might otherwise escape detection — without the need for disassembly. As a leader in [remote visual inspections](#), IIA's toolkit includes intrinsically safe (IS), explosion-proof (EX) cameras that navigate tanks, tubes, vessels and pipes with ease. [Learn about](#) our RVI Services and equipment rental.



Live-Line Tools: Tested, Cleaned, Waxed, and Certified at Your Site (While You Sleep)

IIA's mobile live-line tool testing labs are a welcome sight for electric utilities, contractors and municipalities who would otherwise face the cumbersome task of labeling, packing, shipping and waiting for live line equipment to be tested, certified and returned. (Not to mention the unpacking after testing is complete!)

Our mobile labs save you time and trouble by bringing our testing, cleaning, waxing and certification services directly to your site. We will even perform testing after hours to keep disruptions to a minimum. Read more about IIA's [mobile labs](#) and our trouble-free, [on-site live line tools & rubber goods testing](#).

What Our Customers Are Saying

"I contacted IIA on Monday evening, and IIA's team was on site in less than 48 hours. The service was impeccable

Kevin Nazelrod, Williams Company



Restore Pipeline Operations in Days vs. Months

In the past, rehabilitating a pipeline required one of two options: either decommission the line or dig and replace it. IIA offers a much more appealing alternative, with liners specifically designed to carry oil and natural gas, as well as water. With ZERO FAILURES, these guaranteed solutions have an impeccable success rate and will get your pipeline back in service in days rather than months.

Read [how](#) IIA's trenchless pipe repair helped a large paper mill save millions of dollars.

[READ MORE!](#)

Let's Connect

We want to hear about your inspection and engineering needs. Whether you have a quick technical question or need urgent, on-site assistance, we're here for you. Call us at 470-646-6264 or complete our [online form](#) and we'll get back to you within 24 hours.

Be sure to follow us on [LinkedIn](#) to learn about the latest tools and techniques we're using to solve our clients' problems and make the world safer.



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