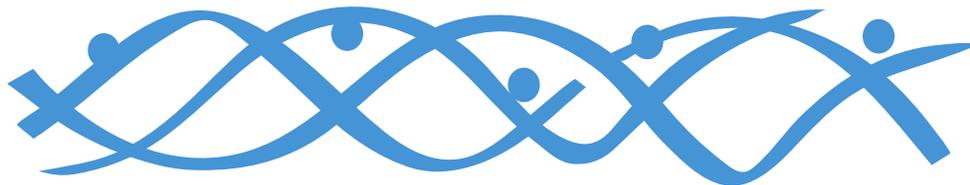




NANO AFFIX



Accurate Affordable Analysis

Quarter 2 2022
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Individual Highlights:

Product Launch 2

Order Today 2

NanoAffix On Display 3

2022 BREW 2.0 3

Drinking Water in Schools
4

NanoAffix Test vs. the
ICP-MS “Gold Standard” 4

Lead Piping in the United
States 5

Product Launch!

Our dedicated team has made great strides at NanoAffix over the past year to get our product market ready. Our portable handheld NanoAquaSense™ lead testing meter will be showcased for the first time at the Water Quality Association Convention and Exposition in the first week of April. It is a very exciting time for everyone at NanoAffix as we bring our first product to market.

We will continue to showcase our device at various other tradeshow throughout the year both locally in Wisconsin and nationwide.



Order Today!

We are accepting orders of our handheld portable water testing meter for lead!

Included in the test kit will be your testing meter, 20 sensors (enough for 10 tests), and other smaller accessories needed to complete a test. You will need to download our NanoAffix app on your Android phone off of the Google Play store.

If you would like to place an order email us at sales@nanoaffix.com or call 414-758-9292. We look forward to hearing from you!



Letter from the Founder

Hello All,

It is hard to believe quarter 2 of 2022 is already here! This is the most exciting time for NanoAffix yet as we are ready to launch our very first product to the market in April. Our portable handheld lead testing meter is ready to share with you all! As our lead tester starts landing in the hands of customers, we will continue development on our sulfur dioxide and *E. coli* tests.

To say the least I am thrilled with the progress my team has made to get our device market ready. As we continue to ramp up production and continue our research for all tests (sulfur dioxide and *E. coli*) our team will continue to grow. The future is very bright for NanoAffix.

Sincerely,

Dr. Junhong Chen
CEO & Founder



Mission

Our mission at NanoAffix Science is to invent the future of detecting contaminants in water, helping to ensure that everyone has access to cleaner and safer drinking water for the future.

In the short term we are launching a portable meter to detect lead and other contaminants in your drinking water.

Our long-term vision is to integrate this new platform technology within existing water infrastructure and equipment for continuous monitoring of a variety of contaminants found in



NanoAffix On Display

Recently, TechConnect announced winners of its annual Smart Cities Startup Challenge. NanoAffix was selected as one of 45 winners from the 170 startup companies that applied. This challenge brings to light the nation's most promising innovations. We will be presenting our innovation at Smart Cities Connect on April 5th and 6th in Columbus, Ohio.

It's very exciting to see how we are being recognized for all of our hard work!



2022 BREW 2.0

NanoAffix was one of 10 companies selected to participate in The Water Council's BREW 2.0 Post-Accelerator program for 2022.

The program includes multiple weeks of targeted virtual training and follow-up training throughout the year to help young companies build connections and grow capacity.

We look forward to the weeks of training and networking with the other BREW 2.0 companies from around the world.



Drinking Water in Schools

In March of last year, the EPA proposed a fact sheet containing information regarding how schools can maintain the quality of their water during days when school is closed. It is important to monitor and maintain the quality of the water in plumbing when not in use. The fact sheet states that stagnant water may result in bacteria growth as well as higher levels of metals (this includes lead) from plumbing components. There are various actions that schools can perform to maintain the building's water quality. Such actions include a toolkit module proposed by the EPA, contacting water professionals,

flushing plumbing systems, maintaining water system components, developing a water management program, and documenting the actions they take for preventing stagnant water from causing such issues. **The fact sheet also recommends the schools get their water samples tested for lead.** It mentions how "there is no safe blood lead level in children. The best way to know if there is lead in drinking water is to test for it." The EPA also recommends that in order for the water samples to represent typical drinking water in the facility, the samples should not be collected for testing immediately after a closure or immediately after flushing

plumbing. They should have the system run for a little while. And after that is done, it should be tested before providing the water to the building's staff, students, and other consumers.

Environmental Protection Agency. (2021, March). Ensuring Drinking Water Quality in Schools During and After Extended Closures.

NanoAffix Test vs. the ICP-MS "Gold Standard"

While inductively coupled plasma mass spectrometry (ICP-MS) is very precise and the most accurate test on the market it does have its fair share of downfalls. ICP-MS is not for the everyday user. You need deep insightful training and it is typically used in a lab setting. A customer has to draw their own sample from whichever water source they are testing and then send it off to a lab to be tested. It takes approximately one to three weeks to get results back and costs about 50 to 100 dollars a test.

By comparison, the NanoAffix testing meter can detect down to one part per billion (ppb) lead. It is very simple and easy to use with no required training to operate the device. By following the instructions and prompts in our user-friendly app, you will obtain results in minutes at a fraction of the cost. You do not have to send a sample off anywhere as all testing can be completed on-site. Testing results could be stored for future review. The testing and setup on our device should take around 15 minutes in total.



Lead Plumbing in the United States

Lead pipes were commonly installed in the late 1800s and early 1900s because despite lead costing more than iron at the time, it's a more malleable metal and generally lasted longer than iron pipes. As a result of this, most states still have over 10,000 lead service lines. The EPA has set regulations on lead piping, but despite these regulations, lead is likely to continue to be a problem for some time. A deadline has been set for all water systems in the US inventory in 2024, however this is not to replace water systems but to develop a plan for replacing them. Congress has allocated 15 billion to subsidize LSL (lead service lines) in the next five years but the actual deadline for some states to replace all their service lines in the future is further off for many states

This is putting aside the more minor but still problematic issues with copper pipes, which can contain small amounts of lead. Michigan has a deadline to replace LSLs of 2041, while Chicago has its deadline set way in the future (2077). Additionally, even the 15 billion allocated may not be enough to cover the national cost (or even half of it) based on estimates. Solving systemic infrastructure issues like this is rarely a quick task. Considering these challenges, lead contamination sensors will continue to be important for protecting public health for a long time in the future.



NanoAffix Employment

If you are looking for employment and are interested in engineering and or business feel free to reach out.

We are always looking for top talent to join our team!



Science Funnies

What did the dung beetle say when he walked into the bar?

A: "Excuse me, is this stool taken."

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