

NANO AFFIX



Accurate Affordable Analysis

Quarter 4 2022



HEADLINES

- Water Leaders Summit 2022
- I-Corps 2022
- SO₂ Prototype Development Begins
- Keeping Children Safe from Contaminated Water
- Benefits of Lead Service Line Replacement and Testing

Water Leaders Summit 2022

The Water Council held its first in-person Water Leaders Summit since 2019 at the Harley Davidson Museum in Milwaukee on October 5th and 6th. NanoAffix was very appreciative in being able to participate in the Summit. Our Product Development Manager, Robert Kopanic, was able to present at the Summit. Robert was able to tell everyone about NanoAffix and how far along we have come in developing our portable water tester for lead. We look forward to participating and attending again in 2023.



NanoAffix Participates in Local I-Corps Program



NanoAffix was proud to be a part of this year's regional I-Corps program put on by the National Science Foundation (NSF) from October 7th to November 18th. Robert Kopanic and Casey Kryshak were happy to represent NanoAffix in the program. I-Corps really helps determine what your market is for your product or idea. NanoAffix has been better able to determine who our market may be for our upcoming portable sulfur dioxide device. This was a great program for us to learn from and we look forward to beginning marketing our sulfur dioxide device.

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 water.



Science Funnies

Q: Why is it bad to trust atoms?

A: They make everything up!!

Note from the Founder

Hello All,

Thank you to everyone who has supported NanoAffix in 2022. It is hard to believe we are in the final stretch of the year. A lot has happened over this year at NanoAffix. We sold our first portable, handheld devices to test your water for lead and are now in the beginning stages of developing our first portable, handheld sulfur dioxide prototype. We attended and participated in the Water Leaders Summit and National Ambient Air Association Conference amongst others. NanoAffix also participated in two local training programs this year including BREW 2.0 and I-Corp through the National Science Foundation.

I really am pleased with the strides we made this year. 2023 will be bigger and better than ever!



Sincerely,

Dr. Junhong Chen
CEO & Founder

SO₂ Prototype Development Begins

We are very happy to announce we are in the very early stages of designing our first prototype of our portable sulfur dioxide device. Our Research Scientist, Dr. Yale Wang has been leading the way developing our gas sensors for our first prototype. We look forward to getting our first prototype in the hands of potential at some point next year!

Keeping Children Safe from Contaminated Water

Children in 400,000 schools and child care facilities are at risk of lead exposure from drinking water. A study has shown about half of American children have detectable levels of lead in their blood, with children in the Midwest having the highest levels in the United States. Not only are lead service lines hard to find, many cities in the Midwest also have lead contaminated soil which can exasperate the problem if the contamination leaks into the water supply.

Detecting lead in the blood of children emphasizes how critical water testing is. There is no safe level of lead, thus every child who has lead concentrations in their blood is likely to have some minor health concerns. The importance of detecting low concentrations of lead is one reason why NanoAffix sensor technology is critical for safety. NanoAffix continues to work on a portable, handheld water tester which will ensure rapid testing and make it clear lead service lines need replacement or water filters

need to be installed. Being able to test quickly instead of sending samples to labs and waiting for results is a critical aspect because lead doesn't necessarily get into the water supply at a constant rate and thus it is necessary to be able to test consistently.



Benefits of Lead Service Line Replacement and Testing

There was a recent sampling of the water of thousands of Chicago homes and 5 percent of them had lead levels over the recommended EPA threshold of 15 part per billion (ppb). Chicago, among other cities across the country, are trailing behind in lead service line replacement. Much needs to be done to meet levels under the EPA limit. Dr. Junhong Chen, CEO and Founder of NanoAffix, highly recommends using water filters if your water has over 5 ppb lead, which is the recommended lead limit for bottled water.

Being proactive with replacing lead service lines and testing will likely lead your city or state to receiving more government funding. If a city or state is not receiving funding it will be very important to test your water. NanoAffix will provide a rapid, on-site test which will feed out results in minutes versus having to take your sample into a lab. The NanoAffix water tester is also able to detect low limits of lead which is critical because there are no safe levels of lead in your drinking water.

NanoAffix sensors are also low cost, which is important for low-income communities where lead in water is more prevalent and funding is limited. This is why being proactive with testing and lead service line replacement is very important.



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