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[Industries](#)

[Products](#)

[News & Blog](#)

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Sound into Performance

*The first and only company to use focused power ultrasound to remove fouling from industrial equipment with **no production stoppages** and **no equipment disassembly***



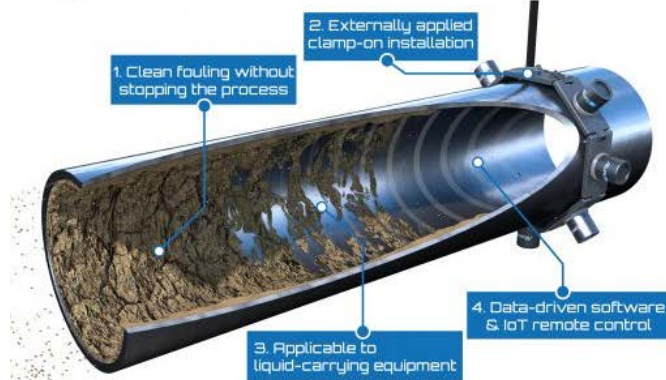
2016
Best Energy
Startup



2017
Slush 100
Winner



Welcome to the World AltumPI Mark III



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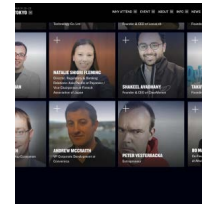
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March 22, 2018

[Releasing state-of-the-art AltumPI Mark III](#) February 15, 2018

[Getting rid of pipeline fouling in minutes](#) January 4, 2018

**Altum's COO Bo
Malmberg at Slush
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Technology



The revolutionary Altum high power ultrasonic system combines traditional

Industries



Having a specialized solution for several industries is a must, therefore

Products



Our products are part of the Altum series which comprises 6 devices for

ultrasonic cleaning with advanced beamforming techniques to localize and effectively clean a pre-defined target point without stopping the process.

our experts and technology have considered the industrial needs of pulp & paper, mining and mineral processing, oil & gas, chemical production and more.

specialized equipment such as filters, heat exchangers, pipes, reactors, cooling towers and tanks. Each product adapts easily to different sizes and environments.



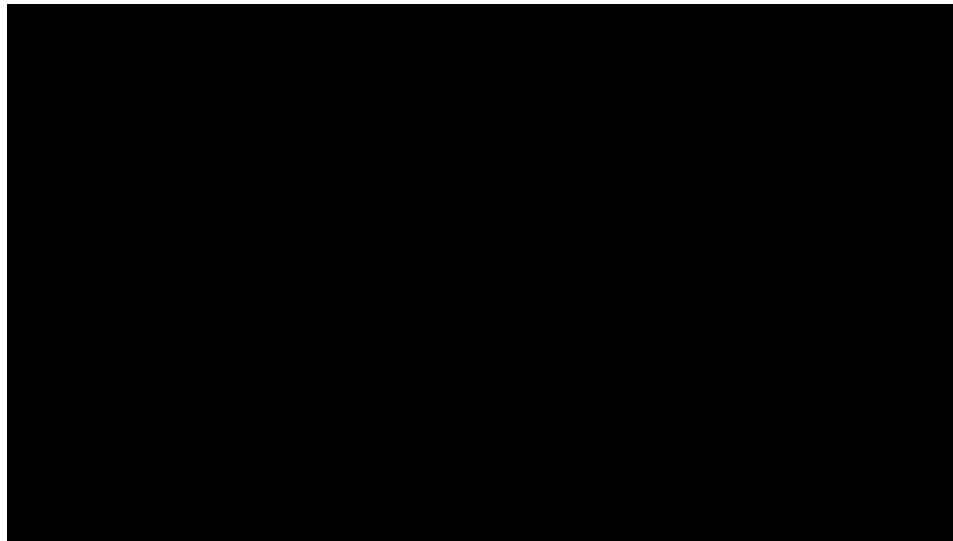
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Company

Since 2016, from our HQ in Helsinki, Finland, we took the responsibility of transforming sound into performance. We are the first company in the world that can completely control power ultrasound to clean fouling from different type of equipment without stopping production. Our disruptive technology also minimizes maintenance time, energy consumption and use of hazardous chemicals in these cleaning processes.

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Winning Slush100 is just the beginning!

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December 4, 2017 Esteban Soto

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Last week was one of the most epic weeks Altum Technologies has had in its very short history. Our fouling cleaning technology and startup won the Slush100 pitching competition. Slush100 competition is part of the Slush 2017 Startup Event, one of the biggest in the world and gathers companies, investors and attendees from more than 130 countries. It is crazy to think that we came to part from a list of more than 2600 startups!

Getting rid of pipeline fouling in minutes

On an interview to Slush right after the announcement of Slush100, our COO Bo Malmberg said: "I feel ecstatic, it is great to see technology like ours being recognized in the competition. We are in prime position to roll out into the rest of Europe now. This year's Slush was an amazing experience altogether, and the feedback from the competition was valuable. I can recommend it to everyone!"

Archives

- March 2018
- February 2018
- January 2018
- December 2017
- November 2017
- October 2017
- September 2017
- June 2017

Categories

- Blog
- News



Photo: Samuli Pentti

Let's eliminate fouling from Earth

Fouling is one of the biggest problems in the world, it causes 2,5% of the global CO2 emissions per year. 2,5% of CO2 equals to 272 power plants emissions or more than 200 million cars emissions (20% of the world's total cars). Fouling occurs

when industrial processes and equipment gets dirty.

As the equipment gets clogged of dirt, more energy is needed to continue the production and this will incur in more CO2 emissions. On top of it to clean the equipment, hazardous chemicals are needed which can contaminate our water resources and put the lives of industry workers in danger.

Expensive to economies and industries

Only in heat exchangers, fouling accounts for a loss of 0.25% to 30% of an industrialized country's total value of goods produced and services provided during one year (GDP). Putting this into perspective, the GDP of the world's 10 biggest economies is \$49,4 trillion (source: World Economic Forum <https://www.weforum.org/agenda/2017/03/worlds-biggest-economies-in-2017>) meaning that the costs coming from fouling easily go above \$123,5 billion and this is only in the top 10 economies.

Our mission



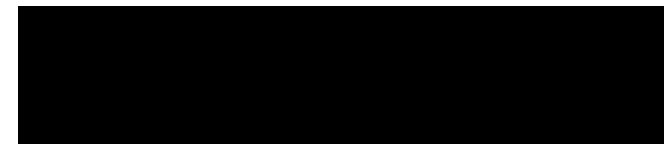
Photo: Petri Anttila

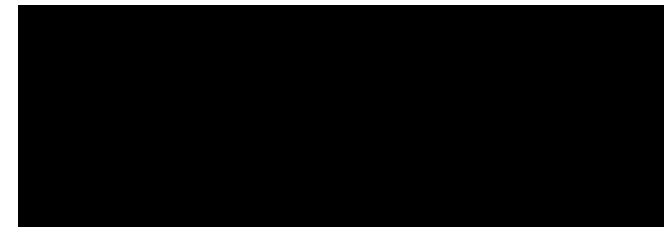
As a company we are aiming to remove fouling completely from the planet and help lower our carbon emissions, we need to act now and that is where our efforts are going to. Last weekend was all Slush100 celebration, this week we are all back in business and our engineers continue to work hard to develop a product that fits every single industrial equipment.

The ultimate prize for us is a healthy Earth without fouling while helping companies to save money.

We want to thank all of you who have called us, sent emails, website and personal messages on LinkedIn, we will get back to all of you as soon as possible. The attention is overwhelming and this really motivates us to continue growing.

Here you can watch our COO Bo Malmberg pitching in the Slush100 final:





Get to know what is coming next in the world of Power Ultrasound. Remember to follow us on [LinkedIn](#), [Twitter](#) and [Facebook](#).

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Industries

Altum's power ultrasound technology cleans fouling without stopping production so we know the importance of delivering a solution made to your specific needs, this is why we provide a power ultrasound system which is specialized to all of our industries below.

Even if your industry is not represented in here, our engineers are constantly pushing the boundaries of what is possible and creating sustainable solutions together with our clients. Either way, get in touch with us and one of our experts will be able to help.



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[Products](#)

[News & Blog](#)

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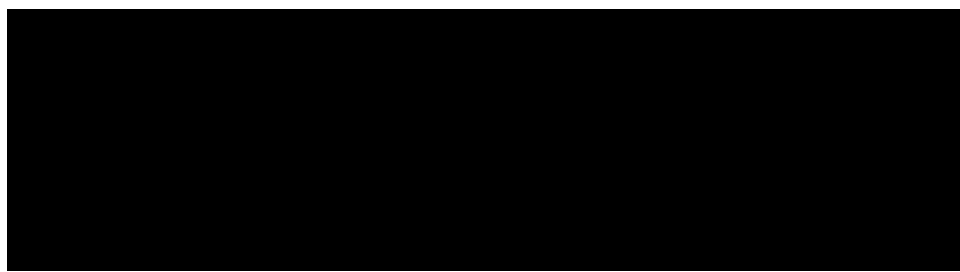
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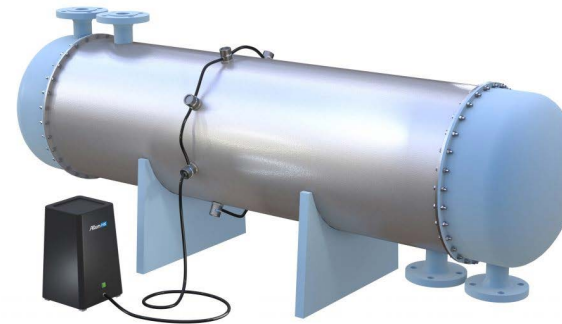
A large, faded background image of an industrial facility with complex piping and structural steel. Overlaid on this image is the word "Altum" in a large, bold, black sans-serif font. Below "Altum" is a solid blue rectangular box containing the words "ALTUM SERIES" in white, all-caps, sans-serif font.

Altum
ALTUM SERIES



The Altum Series consist on a set of 6 products for different types of industrial equipment





Altum **PI**

for Pipelines

Altum **HX**

for Heat Exchangers



Altum **FI**

Altum **RE**

for Filters

for Reactors



Altum **CT**

for Cooling Towers

Altum **TA**

for Tanks

The Altum Series uses our unique power ultrasound to clean and prevent fouling even from the most difficult of places. All this without the need of stopping production or using chemicals.

The size and power of each of our products vary depending on your need, but this isn't something that you should worry about! All you need to do is to let us know in what type of equipment you are having issues and we'll do the rest to provide you with the specific solution.

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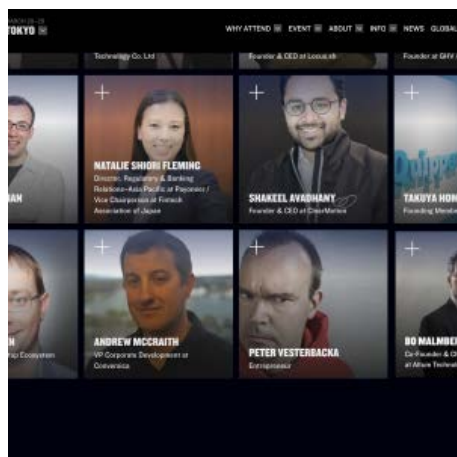
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News & Blog

[Home](#)



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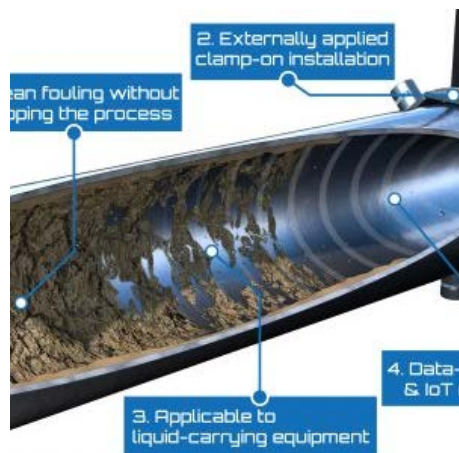
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- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



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It has been an amazing year 2017 for the whole team and we didn't want to leave it without taking [...]

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[November 2017](#)

[October 2017](#)

[September 2017](#)

[June 2017](#)

Categories

[Blog](#)

[News](#)



Altum Technologies to pitch at New England Venture Summit 2017

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Introducing a fouling killer Cleantech-as-a-Service

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Announcing the Altum Series' Cleantech-as-a-Service model. It really can't get easier than this to remove industrial fouling. After releasing our [...]

[Blog, News](#) [cleantech, fouling, service](#)

Altum at the 11th Fennoscandian Exploration and Mining (FEM 2017)

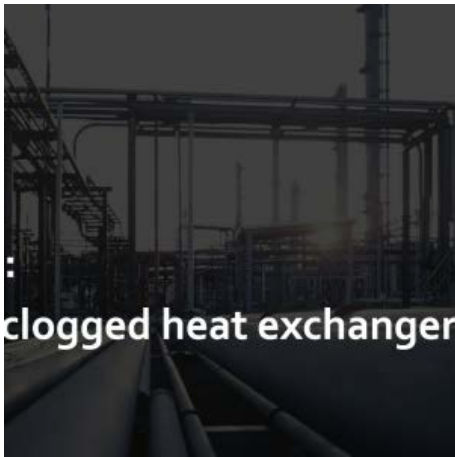
[October 31, 2017](#) [Esteban Soto](#) [Leave a Comment](#)

Our COO Bo Malmberg will be present at the 11th Fennoscandian Exploration and Mining FEM 2017 in Levi, Finland from [...]

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11th FENNOSCANDI
EXPLORATION AND I
31 October - 2 November 2017 • Levi • Lapland
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Heat exchanger fouling: the big picture and case study

[October 30, 2017](#) [Esteban Soto](#) [Leave a Comment](#)

A heat exchanger fouling or scaling in industrial production equipment costs billions of euros every year and has a major [...]

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Showcasing Power Ultrasound at Helsinki's Teknologia17

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We are really excited to be able to present our Power Ultrasound technology at home! Maintenance Technology 2017, Teknologia17, expo [...]

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[Home](#)

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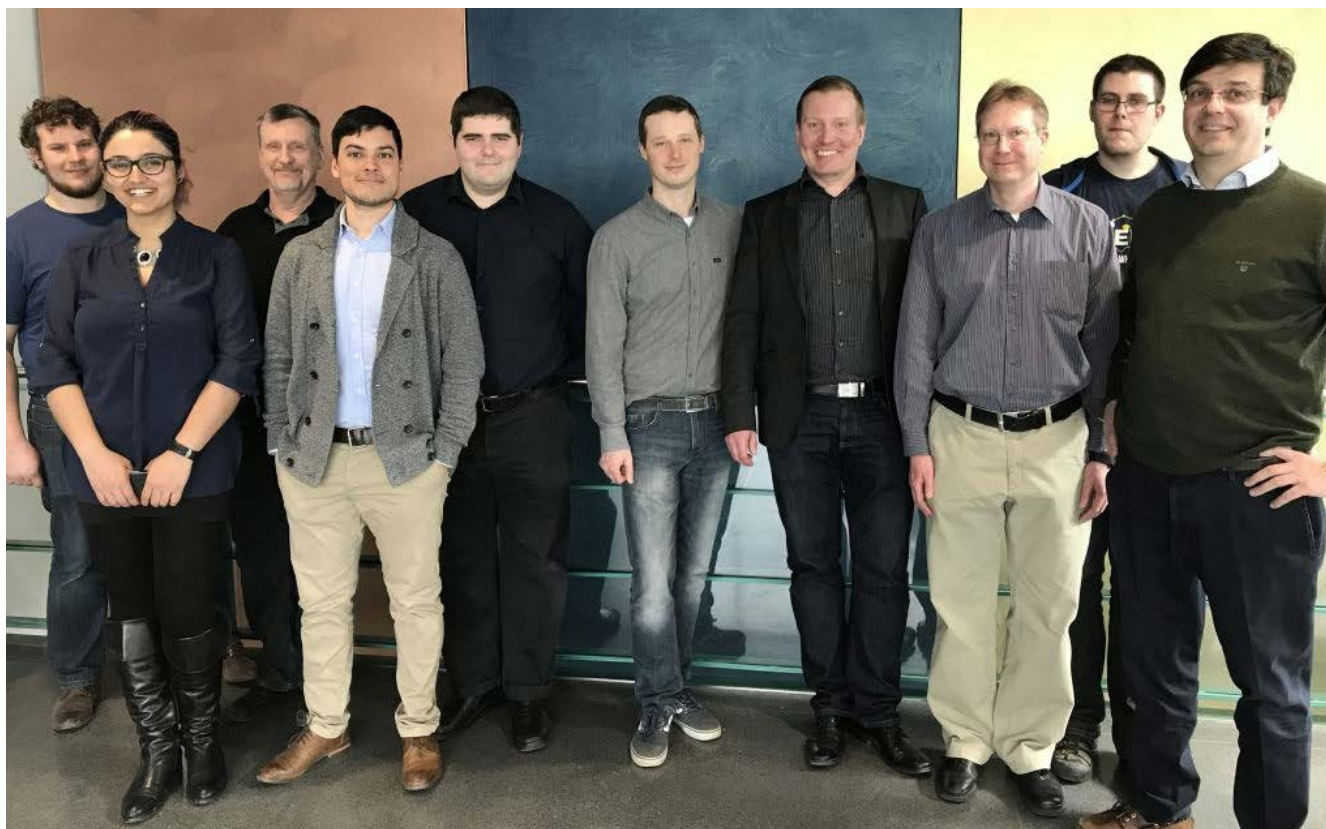
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We believe our engineers are the best ultrasound DJs on Earth

Since 2016, from our HQ in Helsinki, Finland, we took the responsibility of transforming sound into performance. We are the first and only company in the world to use focused power ultrasound to remove fouling from industrial equipment with no need for production stoppages and equipment disassembly.

The cleaning is done by externally applying our device to any liquid-carrying equipment (heat exchangers, pipes, tanks, cooling towers, filters, reactors, etc.) without the need to do any changes to them or the production process. Our disruptive technology also minimizes maintenance time, energy consumption and use of hazardous chemicals in these cleaning processes.



We combined traditional ultrasonics techniques and proprietary software with IoT and AI capabilities to create a one of a kind cleantech. We've come a long way in the last few months, we released our first product to the market AltumPI in June 2017, won the prestigious Slush 100 pitching competition in December 2017 and in February 2018 we released our Mark III system. We are backed by Lifeline Ventures and Business Finland.

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Contact us to know more! We promise that you're not going to hit a ridiculously long phone menu when you call us. Your email isn't going to the inbox abyss, never to be seen or heard from again. Altum Technologies is here to provide you with more information, answer any questions you may have and create an exceptional solution for your industrial requirements.

Interested in learning more about our services and products? Our engineers will take the time to discuss your current fouling situation and help you make smart decisions that best meet your needs.

Talk to our Experts

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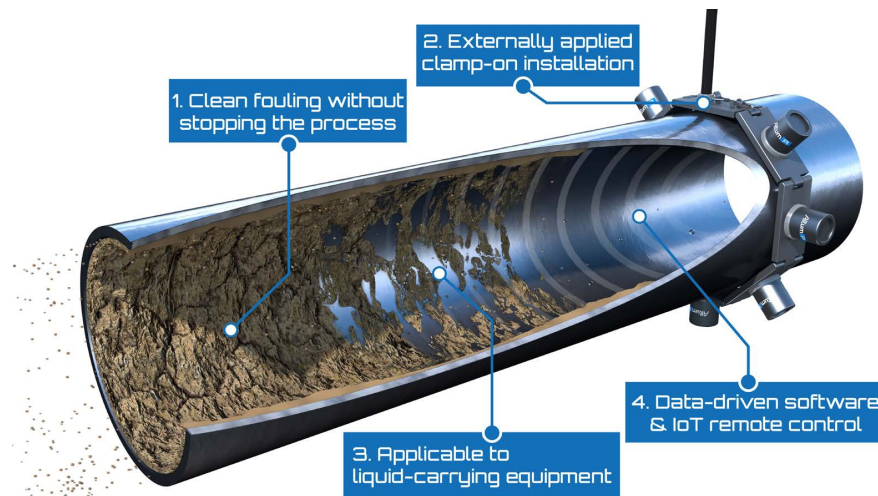




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Releasing state-of-the-art AltumPI Mark III

Home All News Releasing state-of-the-art AltumPI Mark III



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Altum Technologies is very proud to introduce a one-of-a-kind new generation of Power Ultrasound fouling cleaning devices. The first product of this new generation to see the light is AltumPI Mark III. Back in June 2017 we released the 2nd generation of AltumPI (the 1st one was our prototype in 2016).

Altum's COP Air Meeting at Slush Tokyo 2018

Releasing state-of-the-art AltumPI Mark III

The launch event was held in Brussels, Belgium today February 15th. CEO **Matias Tainela** and Marketing Director **Esteban Soto** presented our technology and new product to a selected audience of more than 15 global process industry companies.

Our First Full Year: 2017 Top 5 Moments

Altum Technologies to pitch at New England Venture Summit 2017





AltumPI Mark III

Now is time for a more powerful device, robust Central Unit, updated software and a completely new clamp-on attachment.

"We want to continue moving towards ease of use and scalability of our system, AltumPI Mark III is proof of that." CEO Matias Tainela says. "Cleaning fouling doesn't have to be a complicated maintenance task in which you need to use tons of your employees' time and completely stop production."

Software
user-friendly interface



Central Unit
robust design



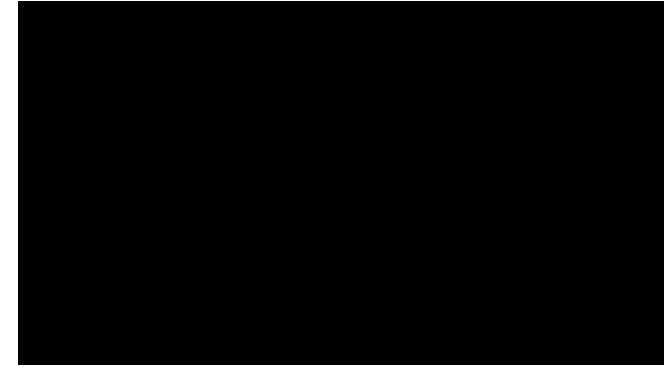
Ultrasonic Transducers
clamp-on design



Altum Technologies has put a lot of effort in improving its software to be able to meet the growing market demand and customer need for larger cleaning systems. For this Mark III release, the software features new ways we can tackle different fouling types, more spread-out systems and ease-of-use. Hardware is a big part of how our device can be easily implemented in an industrial facility but the most important part of our solution is in the software.

"Our software is the brain behind the technology needed to effectively remove fouling with Power Ultrasound, the magic happens in there. Without the software, it would be impossible to control the Power Ultrasound to do exactly what we want, when we want and where inside the structure we want to clean." -Timo Rauhala, CTO.

See it in Action



We are leading the charge in an era where fouling is a major problem for many industries, entire economies and our environment. We'll continue to develop our technology and make it accesible to every country in the world.

If you have any fouling issues and want to tackle them with our expertise, we'll be more than happy to hear from you, [contact us](#) and we'll be in touch!

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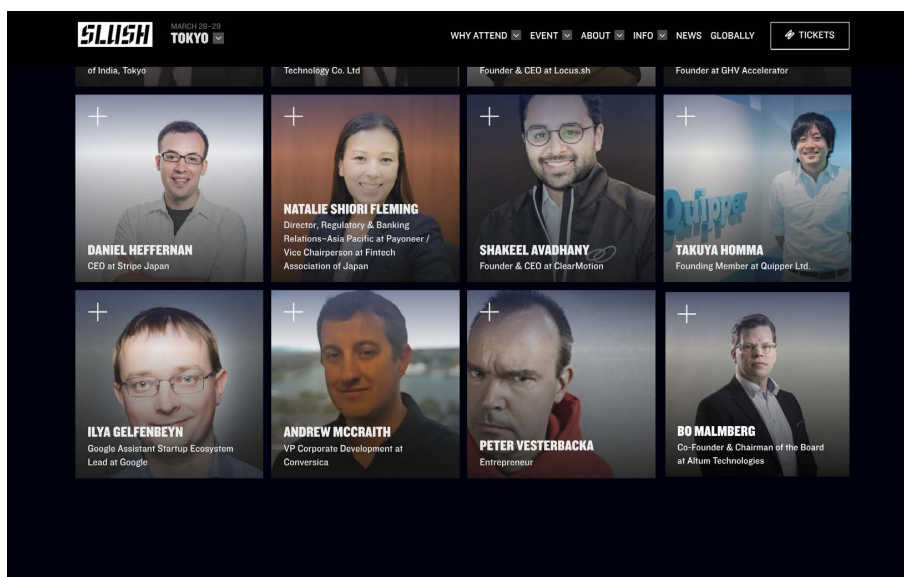




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Altum's COO Bo Malmberg at Slush Tokyo 2018

Home All News Altum's COO Bo Malmberg at Slush Tokyo 2018



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March 22, 2018 Esteban Soto

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Head of Slush Tokyo 2018 next week (March 28-29), Altum Technologies' COO Bo Malmberg will be taking part in the event alongside top global entrepreneurs. Altum will attend Slush Tokyo as special guest after winning Slush 100 pitching competition back in December last year.

Altum's COO Bo Malmberg at Slush Tokyo 2018

Releasing state-of-the-art AltumPI Mark III

Getting rid of pipeline fouling is crucial

Our First Full Year: 2017 Top 5 Moments

Altum Technologies to pitch at New England Venture Summit 2017

CO-FOUNDER & CHAIRMAN OF THE BOARD AT ALTUM TECHNOLOGIES

BO MALMBERG

Bo is the Co-Founder and Chairman of the Board of Finland-based Altum Technologies, the only company in the world that uses ultrasound to clean industrial production processes while they are up and running. Bo's role is to keep the operations running and finding new business locally and internationally. Bo has a vast international experience in various roles in leading IT companies. The Altum Series ultrasonic solution will be one of the key technologies in reducing the global CO2 and chemical pollution. Their device will simultaneously enable customers to increase productivity by eliminating fouling, hence giving more production days and higher energy efficiency. Altum Technologies won the SLUSH 100 pitching competition at the 2017 SLUSH Helsinki.

Archives

- March 2018
- February 2018
- January 2018
- December 2017
- November 2017
- October 2017
- September 2017
- June 2017

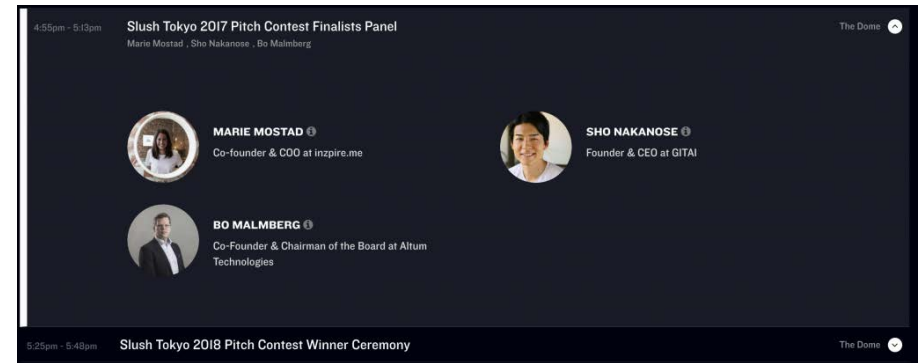
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A delegation of Altum's representatives including CEO Matias Tainela, Chief Science Officer Petro Moilanen and Marketing Director Esteban Soto will be also attending the event while meeting with local corporations in order to open the doors for international collaboration.

Just like in the rest of the world, **fouling** in industries in Japan is a major issue and Altum Technologies is aiming at solving this problem once and for all with power ultrasound.

Slush Tokyo 2018 – What and When?

Just before the Slush Tokyo 2018 pitching competition winner is announced, Bo Malmberg will be moderating the panel session which includes 2 finalists from last year's pitching competition, Inzpire.me and GITAI.



Slush Tokyo will be held in March 28-29. Find more information: <http://tokyo.slush.org/>

Get in touch with us!

If you will be in Tokyo during next week and would like to discuss more about our solution and approach please don't hesitate to [contact us](#).

Want to stay updated in the world of Power Ultrasound? You can follow us through [Facebook](#), [Twitter](#) and [LinkedIn](#)

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2018 is here, after winning [Slush 100 competition](#) and reviewing our [top 5 moments](#) of last year, it was about time to release a new case study. Previously we told the story of one of our [client clogged heat exchanger](#), now we'll show you how we are helping to get rid of pipeline fouling issues without having to stop their process. This time we had an impact in both the food and [wasting industry](#) - the art AltumPI Mark III

- Getting rid of pipeline fouling in minutes
- Our First Full Year: 2017 Top 5 Moments
- Altum Technologies to pitch at New England Venture Summit 2017

Archives

- March 2018
- February 2018
- January 2018
- December 2017
- November 2017
- October 2017

Many companies are looking for more efficient alternatives to remove fouling from their processes. This is exactly where Altum Technologies fits.

In this case, our client was using many man hours to clean their equipment and pipeline mechanically or manually. On top of it cleaning it manually involved stopping the process and you know, time is money.

Categories

- Blog
- News



Remove pipeline fouling without stopping the process

The Problem

As our client is processing food, a lot of their waste includes fat, which makes it very prone to stick to the inner walls of their equipment. The company's sewage waters pre-processing plant in Finland was affected by this issue. The fat became rock hard, this led to clogging and eventually stopping the flow, so in August of 2017 Altum Technologies started to work at this facility.

We took the responsibility to not only clean their facility pipes with [AltumPI](#) but also improve the efficiency of their process.

Before Altum, the customer used to clean the pipeline mechanically and manually with a brush. These methods took many man hours and they had to stop the whole process to do it.

This is why they turned to Altum Technologies' solution for pipelines, AltumPI. They didn't have to use their employees' time and stop the process to get rid of the fouling.

The Solution

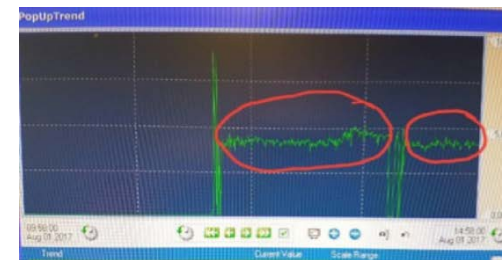
By attaching [AltumPI](#) in the places which had the biggest issues, 10 meters of pipeline were cleaned in two cleaning cycles. The first cycle lasting 45 minutes and the second one only 15 minutes.

Now that the pipelines are clean, it is even easier to keep the process in optimal efficiency and keep the equipment clean with the help of AltumPI.



The Benefits

1. No need to stop the process to remove the fouling.
2. Flow consistency improvement which meant efficiency increase in pumping and dewatering processes.
3. Increased the separation of water from material.
 1. AltumPI's power ultrasound breaks the cell so that water can get out of the waste which makes the waste drier.
 2. Now the clients get drier waste, this way the compression and disposal of this waste is more efficient and cheaper to transport.
4. It is easier to manage the whole pre-processing facility when the pump is functioning at wanted steady flow rates.
5. Increased energy efficiency.



Graphic showing the flow consistency during AltumPI's cleaning



Waste material sample collected after cleaning

Are you aware of any issues with fouling in different type of your industrial equipment? Our engineers are eager to know more about it, just [contact us!](#)

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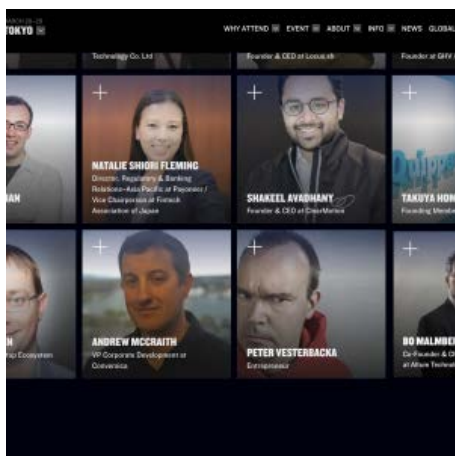
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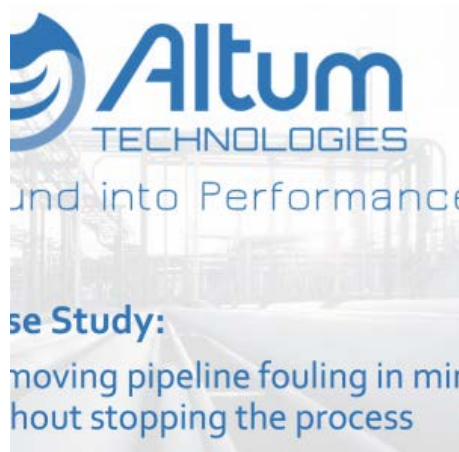
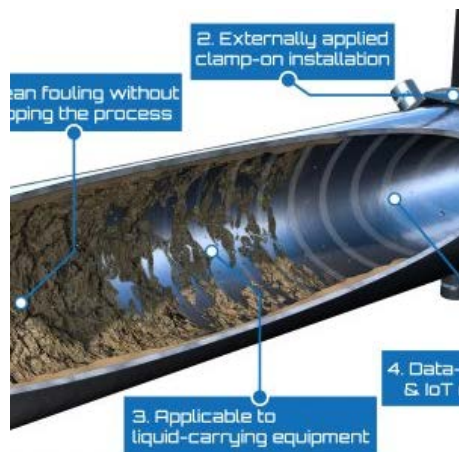
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Archives

- [March 2018](#)
- [February 2018](#)
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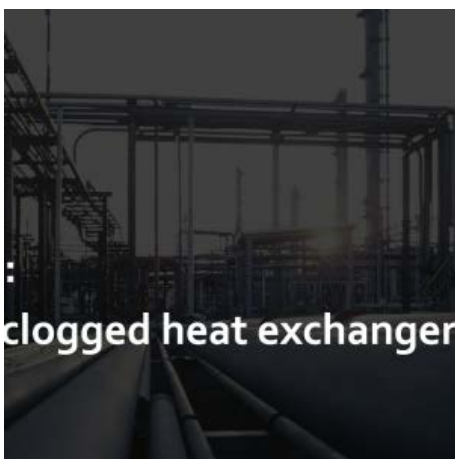
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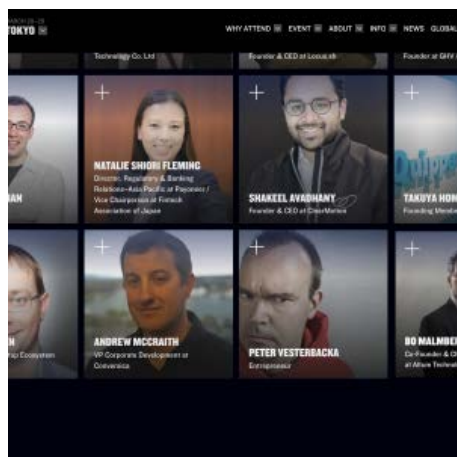
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Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

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[November 2017](#)

[October 2017](#)

[September 2017](#)

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[Blog](#)

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Toronto Mines & Tech: Altum's time to disrupt the mining industry

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During this week (October 2nd-4th), Altum Technologies' CEO Matias Tainela and COO Bo Malmberg will be taking part on one [...]

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Altum is among industry leaders in POWTECH 2017

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POWTECH 2017 has arrived and Altum Technologies is present in Nuremberg, Germany in what is one of Europe's biggest industrial [...]

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Disruptive Fouling Cleaning Tech at VERGE 17

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The revolutionary Altum high power ultrasonic technology combines traditional ultrasonic cleaning with advanced beamforming techniques to localize and effectively clean a pre-defined target point. On top of this, Altum's system is the only one in the world that can be applied externally to any existing production environment without making any changes to the production equipment.

The theory

Ultrasonic cleaning uses cavitation/air bubbles induced by high frequency pressure to agitate a liquid. As the liquid is constantly "disturbed" by sound waves and microstreams are formed, the size of the air bubbles increase and just as its threshold is exceeded, the cavitation violently collapses. This collapse of the air bubble produces shockwaves with high forces onto the inner surface of the container holding the liquid and as such onto the fouling attached to that surface, thus detaching the substrate.

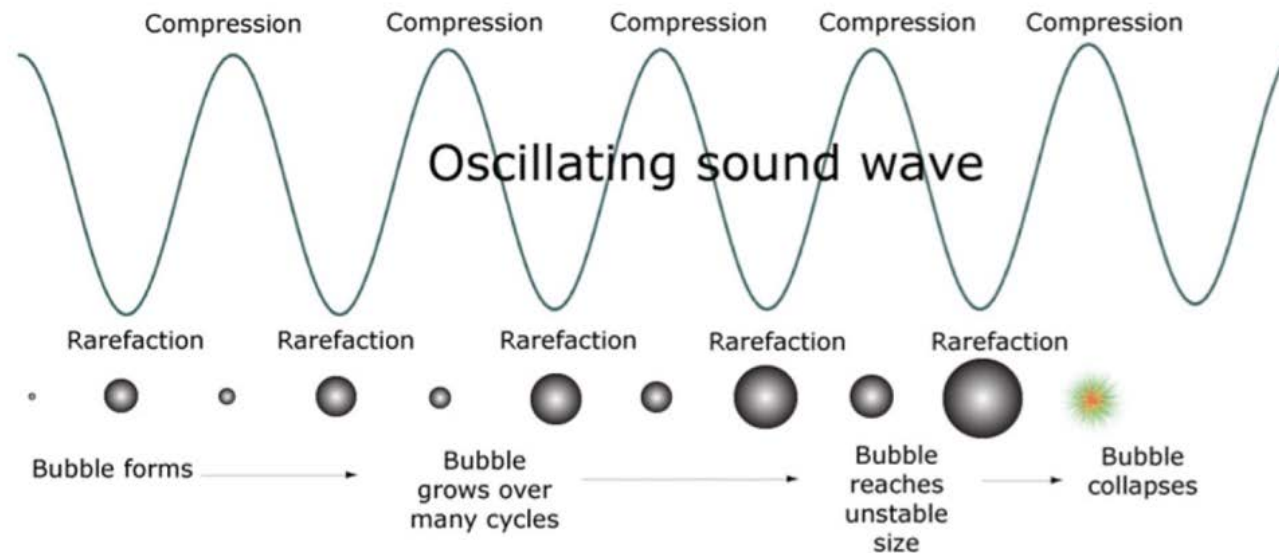


Figure: Leong et al, *Acoustics Australia* 39:54-63, 2011.

The Altum approach

Ultrasound generating piezoelectric transducers are attached to the outer surface of the liquid container and focused at a specific target point/area for controlled maximum cleaning effect. These transducers produce an electrically oscillating ultrasonic wave (i.e. compression waves) in the liquid inside the container. The decrease in acoustic pressure (sound wave minima) results in the disturbance of the liquid and formation of air bubbles/cavitation with fluctuating diameters. Just as the cavitation threshold exceeds, these bubbles collapse with high amount of energy that removes the fouling from the surface.

The why

Altum's patent pending technology is based on tailored design and optimization of this ultrasonic cleaning operation. The technology is scalable for the cleaning demands of any real industrial structures and its advantage is optimal cleaning effect that can be applied onsite and does not require stopping the production process.

We are the only in the world that:

1. Combine externally applied power ultrasound with the capability of focusing the sound in any point of the inner structure that needs cleaning.
2. Clean your production equipment so that you don't need to stop production.
3. Enable you to get a drastic increase in production output, energy efficiency and decrease in chemical usage.



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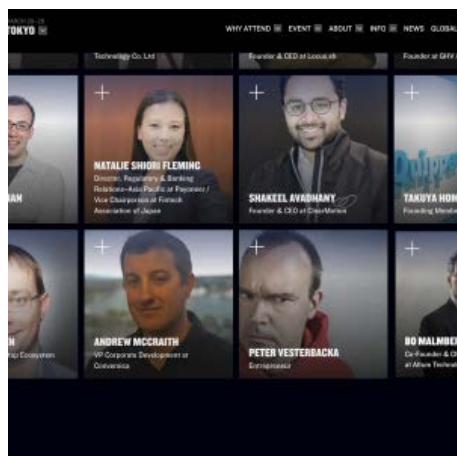




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Category: All

[Home](#) [All](#)



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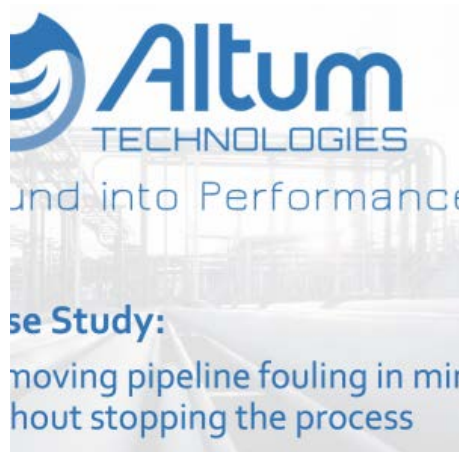
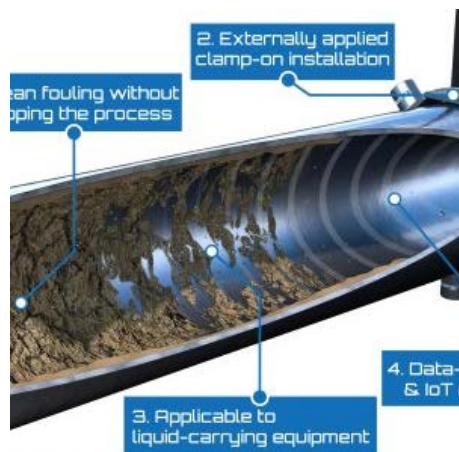
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- [March 2018](#)
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- [January 2018](#)

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[December 2017](#)

[November 2017](#)

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Categories

[Blog](#)

[News](#)



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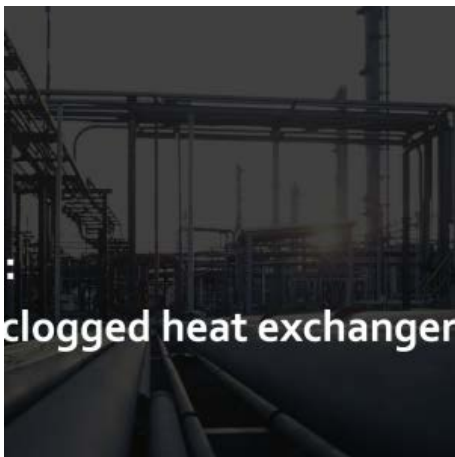
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Home All Blog Our First Full Year: 2017 Top 5 Moments

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It has been an amazing year 2017 for the whole team and we didn't want to leave it without taking a look back at what was achieved and thank you all: partners, customers and investors, who have made all this possible.

Altum's COO Bo Malmberg at Slush Tokyo 2018

Releasing state-of-the-art AltumPI Mark III. Altum Technologies was founded in mid 2016 so 2017 was our first full year. During these months we took the difficult task of controlling power electronics completely and using it to solve one of the planet's biggest issues, fouling.

Our First Full Year: 2017 Top 5 Moments

We achieved several milestones in various areas from technical to business and we are proud of all of them, but to keep it short we decided to pick this year's 2017 top 5 moments.

Archives

4. From 5 to 14 people

March 2018

February 2018

Our team grew beyond our co-founders from 5 to 14 people. Now we have a top-notch team of 14 professionals with crucial skills on R&D, industrial & mechanical engineering, Artificial Intelligence, electronics, marketing and more. We continue to focus on a flat, transparent and open culture that puts its trust completely on each of our employees.

November 2017

October 2017

September 2017

June 2017

Categories

Blog

News





2. Brand new “look and feel”

Our website and brand got a major redesign. Based on our marketing director, our previous look and feel was “a total nightmare”, we couldn’t agree more! Design Reform took on the challenge and delivered it with the highest standards.



3. AltumPI product for pipelines launched

In June we [launched AltumPI](#) in a big event for about 80 people at Allas Sea Pool. Through the amazing help of San Francisco PR Agency, our launch was followed by several media coverage including a full page print and online article from the biggest newspaper in Finland: [Helsingin Sanomat](#).



4. Commercialization of AltumPI

Immediately after launching, we started to work on more than 15 projects and long term agreements with several international industrial companies in Finland. We then released our [Cleantech-as-a-Service](#) model later in the year. All of this has led to an increase in revenue of 1000% compared to 2016. We intend to keep up with this growth during 2018.



5. Winning Slush100 pitching competition

Last but not least, we were selected winners of the prestigious [Slush100 pitching competition](#). 2600 startups entered the competition and our COO Bo Malmberg managed to bring the win home. Haven't watch the winning pitch yet? [Here!](#)



What is coming in 2018?

Our targets remain high, we are aiming to continue with our growth while expanding to international markets in Europe and North America. Our products will continue to improve making them way easier and faster to install while in production. We will also release software for complicated structures such as for heat exchangers while tirelessly develop our artificial intelligence capabilities.

Once again, thank you for this amazing 2017 and cheers for the 2018 which is coming upon us! We can't wait to smash it with you.

-Altum Technologies Team

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Our First Full Year: 2017 Top 8 Moments

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"We know we were going to give an award winning pitch!" Says our COO Bo Malmberg, "we are seeking to grow in several markets and North America is one of them, this event gives us a great opportunity to meet with investors who share our goals and can see the full potential of our solution."



Archives

March 2018

February 2018

January 2018

December 2017

November 2017

October 2017

September 2017

June 2017

Categories

Blog

News

COO Bo Malmberg pitching to thousands during the final of Slush100 in Helsinki, Finland

Why New England Venture Summit?

The 12th annual New England Venture Summit, connects venture capitalists, corporate VCs, angel investors, technology transfer professionals, senior executives of early stage and emerging growth companies, university researchers, incubators and premier service providers.

The full-day Venture Capital Summit will include venture panels and give the chance for a selected group of startups to pitch to investors. Altum Technologies will be taking part of the cleantech track and present their solution on Wednesday December 6th.

If you are in the area and would like to meet us in person we will be there from the evening of Monday 4th until the evening of Thursday Dec 7th, [contact us](#) at any time!

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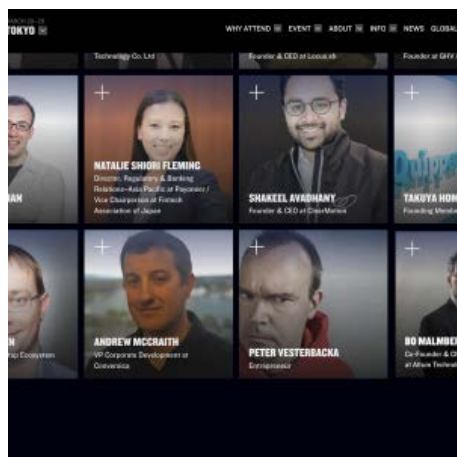




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Month: March 2018

Home 2018 Mar



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- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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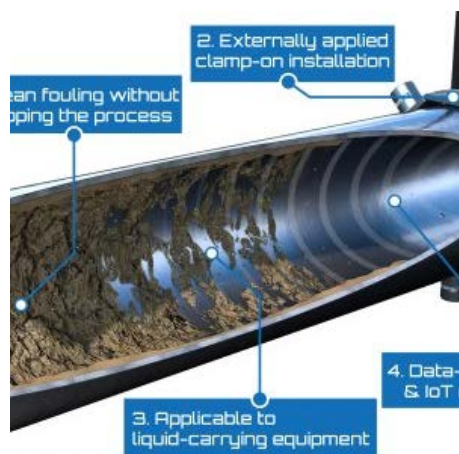
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Month: February 2018

[Home](#) [2018](#) [Feb](#)



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Recent Posts

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- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Month: January 2018

[Home](#) [2018](#) [Jan](#)



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- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Month: December 2017

[Home](#) [2017](#) [Dec](#)



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- [Releasing state-of-the-art AltumPI Mark III](#)
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- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



New day and new week, after Altum's win in Slush100 pitching competition, one of Europe's most prestigious startup events, it [...]

[News](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



Winning Slush100 is just the beginning!

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Month: November 2017

[Home](#) [2017](#) [Nov](#)



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Recent Posts

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- [Releasing state-of-the-art AltumPI Mark III](#)
- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Month: October 2017

[Home](#) [2017](#) [Oct](#)



Altum at the 11th Fennoscandian Exploration and Mining (FEM 2017)

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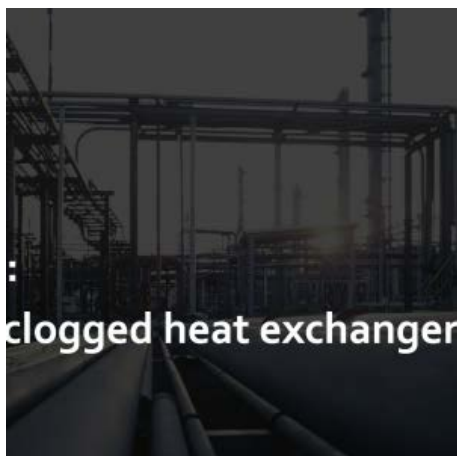
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- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



[Blog](#)



Showcasing Power Ultrasound at Helsinki's Teknologia17

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We are really excited to be able to present our Power Ultrasound technology at home! Maintenance Technology 2017, Teknologia17, expo [...]

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[Blog](#)

[December 2017](#)

[November 2017](#)

[October 2017](#)

[September 2017](#)

[June 2017](#)

Categories

[Blog](#)

[News](#)



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[Home](#) [2017](#) [Sep](#)



Toronto Mines & Tech: Altum's time to disrupt the mining industry

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During this week (October 2nd-4th), Altum Technologies' CEO Matias Tainela and COO Bo Malmberg will be taking part on one [...]

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Altum is among industry leaders in POWTECH 2017

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POWTECH 2017 has arrived and Altum Technologies is present in Nuremberg, Germany in what is one of Europe's biggest industrial [...]

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Recent Posts

- [Altum's COO Bo Malmberg at Slush Tokyo 2018](#)
- [Releasing state-of-the-art AltumPI Mark III](#)
- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



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Disruptive Fouling Cleaning Tech at VERGE 17

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After a very good summer season and lots of ongoing fouling cleaning projects, Altum Technologies will be at VERGE 17 [...]

[News](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Month: June 2017

[Home](#) [2017](#) [Jun](#)



Altum is at IMWA 2017: Eliminating scaling from the mining industry

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Our CEO Matias Tainela and COO Bo Malmberg are already in Lappeenranta, Finland. They will talk about eliminating scaling from [...]

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Recent Posts

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- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



[News](#) [altum series, fouling, industrial cleaning, power ultrasound, ultrasonic](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Category: [Blog](#)

[Home](#) [Blog](#)



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[Blog](#)

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Recent Posts

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- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



[Blog](#) [growth, industrial, new year, review](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)



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Categories

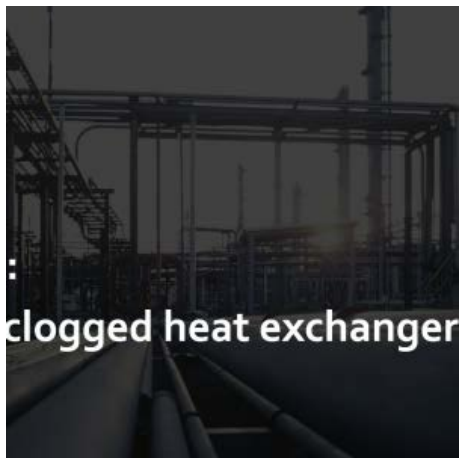
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- [News](#)

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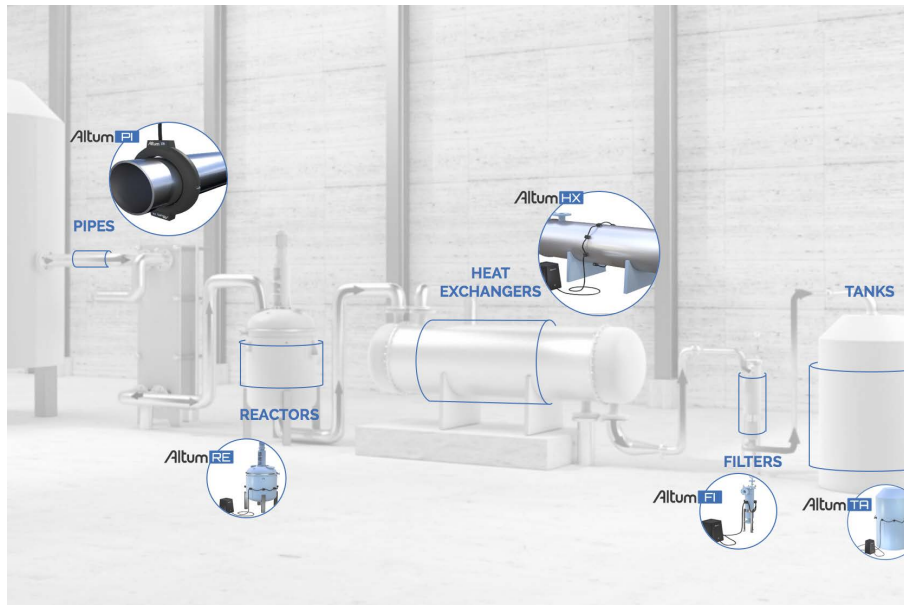
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Home All News Introducing a fouling killer Cleantech-as-a-Service



Search ...

November 15, 2017 Esteban Soto

Recent Posts

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Altum's COO Bo Malmberg at Slush Tokyo 2018

After releasing our first product AltumPI, in June of this year, we have learned a lot by partnering with companies who are leaders in their respective industries. This has allowed to continue not only developing our Power Ultrasound cleaning technology, but also the way we want to make it available to anyone with industrial fouling issues.

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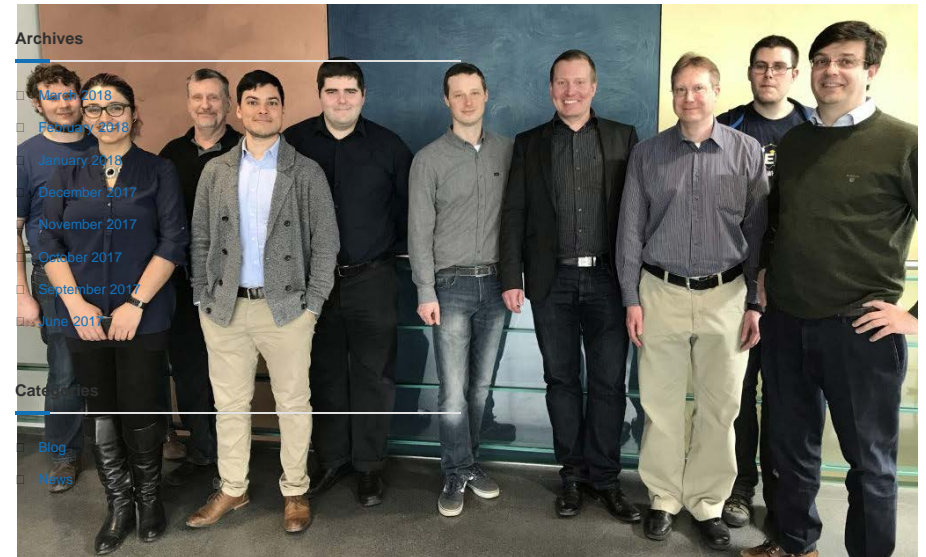
Our story in brief

Archives

- March 2018
- February 2018
- January 2018
- December 2017
- November 2017
- October 2017
- September 2017
- June 2017

Categories

- Blog
- News



Altum was founded in May 2016 to radically increase energy efficiency of process industries and to make industrial processes more environmentally friendly. All of this to help us achieve a greater good, improve people's lives through power ultrasound.

Back in 2014, our founders had received direct requests from several companies to develop a system that could clean fouling from their industrial equipment while their process was running and without the need to use any chemicals to do this type of maintenance.

Fouling in industrial production equipment costs billions of euros year after year. Studies have shown that fouling may contribute up to 2.5% of global CO2 emissions, while reducing the global GDP by 0.25%.

The Power Ultrasound technology is 100% cleantech, removes biofouling with ease and can even kill different type of bacteria in water

After partnering with extremely talented people from the University of Helsinki, Altum developed and released the first and only solution that uses power ultrasound to remove fouling from industrial equipment (e.g. pipes, tanks, heat exchangers, filters, cooling towers, etc.) with no process/production stoppages, no chemicals and no equipment disassembly.

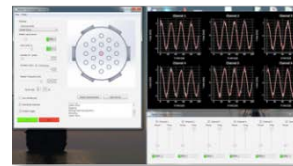
Altum's Cleantech-as-a-Service is here

We are now introducing a Cleantech-as-a-Service (CaaS) model. This means that for a fixed monthly fee we provide our full service. The minimum service period is 12 months.

Our completed [projects and case studies](#) have already led to the first commercial Altum Series operation agreements. The Altum Series solution is offered in different sizes, depending of the customer needs.

The two-channel solution is the smallest module, whereas the biggest can include tens of channels, this modularity helps us to canalize more power and effectiveness to the cleaning.

Software
user-friendly interface



Central Unit
robust design



Ultrasonic Transducers
clamp-on design



Why a CaaS model?

We want our clients to get ROI as quick as possible after using Altum's Power Ultrasound. The Cleantech-as-a-Service model makes it much easier to achieve quantitative results in both short and long term.

When using the device through a CaaS agreement, our customers get access to the following:

1. Planning
2. Installation
3. Hardware

4. Software
5. Training
6. Remote monitoring (IoT)
7. Maintenance

Do you have fouled industrial equipment?

You shouldn't stop production to get the equipment cleaned up, let us take care of it. Our engineers will be happy to take a look at your case, send us a message here: [Contact Us](#)

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[Home](#)

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[Products](#)

[News & Blog](#)

[Company](#) ▾

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Water

[Home](#) ▾ [Industries](#) ▾ [Water](#)



Water

Altum Series is utilised in water purification and in sewage treatment facilities. It is utilised in both in industrial and municipalities. It is commonly used to keep different pipes and tanks clean of fouling. Our customers are also using it to increase the dry material content of the waste, separation, micro-bubbles creation and process efficiency. Altum Series can also kill bacteria when combined with other approaches.

Benefits

- Increase the dry material content
- Don't stop the process to clean industrial equipment
- Decrease maintenance and cleaning time
- Enhance the process of killing bacteria
- Reduce or eliminate the need of chemicals
- Make your process more energy efficient
- Comply with current and future environmental legislations
- Improve workplace safety

References & Case Study

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We would love to hear more about your case. Our engineers can analyse it and provide you with the best way to solve it. Please don't hesitate to contact us using the form below.

Your Name (required)

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Subject

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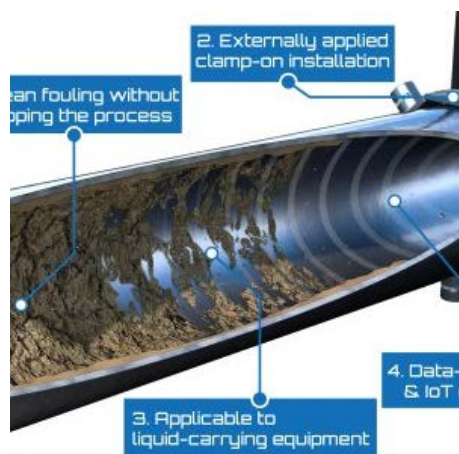
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Recent Posts

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- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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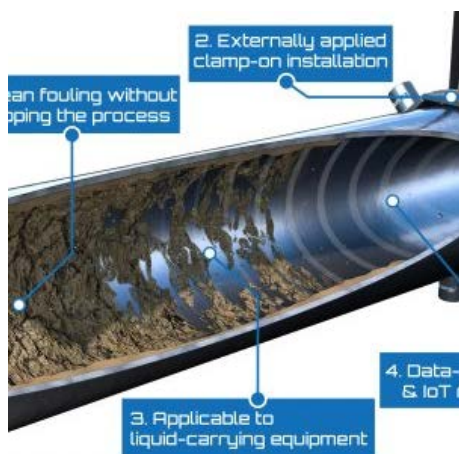
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[Home](#) [fouling](#)



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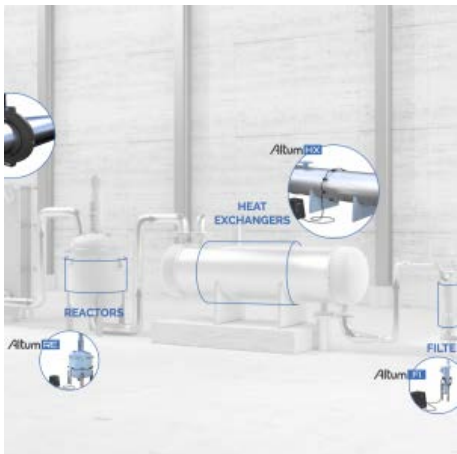
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- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



[Blog, News](#) [cleantech, fouling, service](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)




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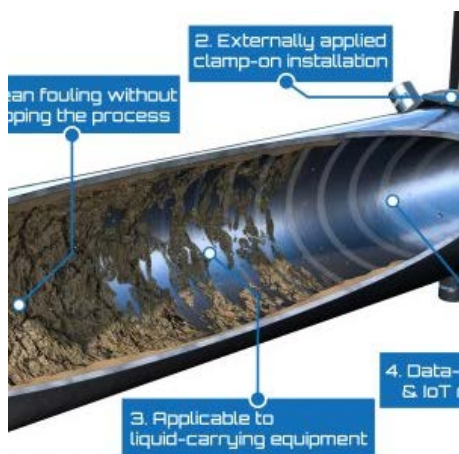




Sound into Performance

Tag: mark III

[Home](#) [mark III](#)



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Search ...

Recent Posts

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- [Releasing state-of-the-art AltumPI Mark III](#)
- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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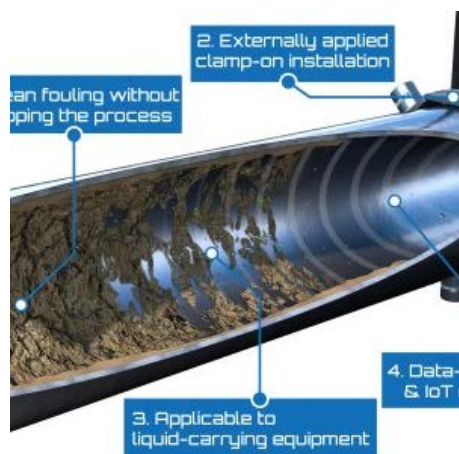
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Tag: pipes

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Releasing state-of-the-art AltumPI Mark III

[February 15, 2018](#) [Esteban Soto](#) [Leave a Comment](#)

Altum Technologies is very proud to introduce a one-of-a-kind new generation of Power Ultrasound fouling cleaning devices. The first product [...]

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Recent Posts

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- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Recent Posts

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- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Recent Posts

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- [Releasing state-of-the-art AltumPI Mark III](#)
- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Search ...

Recent Posts

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- [Releasing state-of-the-art AltumPI Mark III](#)
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- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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[Home](#) [review](#)



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Recent Posts

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- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Introducing a fouling killer Cleantech-as-a-Service

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Recent Posts

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- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Recent Posts

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- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Altum at the 11th Fennoscandian Exploration and Mining (FEM 2017)

Home All News Altum at the 11th Fennoscandian Exploration and Mining (FEM 2017)



11th FENNOSCANDIAN EXPLORATION AND MINING
31 October - 2 November 2017 • Levi • Lapland • Finland
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October 31, 2017 Esteban Soto

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Our COO Bo Malmberg will be present at the [11th Fennoscandian Exploration and Mining FEM 2017](#) in Levi, Finland from 31 October to 2 November 2017. We have also been invited by [EIT RawMaterials](#) to be part of their Cross-Pitching Luncheon. The luncheon will be held during the Fennoscandian Exploration and Mining 2017 event.

Releasing state-of-the-art AltumPI Mark III

The [EIT RawMaterials](#) call for proposals, specifically for exploration, mining and processing. The luncheon will start by presenting the new EIT RawMaterials call for projects, followed by partner presentations on exciting new R&D topics.

Altum speaking at Fennoscandian Exploration and Mining 2017

Altum Technologies will be speaking at EIT RawMaterials' Luncheon about how to increase production and energy efficiency by avoiding process down time. We have plenty of experience on how to do this with our Power Ultrasound solution against fouling. To ensure you make sure you take part of the gathering, Bo will be speaking at 11.45 this Thursday November 2nd.

November 2017
When: 2 November 2017, 11:00 – 12:30
Where: Hotel Levi Panorama, Gold Digger Bar & Lounge (7th Floor)
September 2017

Here is the Cross-Pitching Luncheon programme:

- 11.00 – 11.15: Olli Salmi, EIT RawMaterials Baltic Sea: Get your innovation to the market with collaborative R&D
- 11.30 – 11.45: Staffan Sandström, Boliden AB: Presentation of Boliden – challenges and strategies
- 11.45 – 11.55: **Bo Malmberg, Altum Technologies: How to increase production and energy efficiency by avoiding process down time**
- 11.55 – 12.05: Jaakko Pellinen, Owatec Group: Graphene-based electro-membrane for water filtration and metal recovery
- 12.05 – 12.15: Pauli Saksa, Geosto: New Technology for Groundwater Management and Environmental Safety

To register just sign up here: <https://www.lyyti.in/FEM2017>

You can get in touch with us [here](#) or with Bo Malmberg via mobile or email: +358 40 515 6373 – bo.malmberg (at) altumtechnologies.com



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[News](#)

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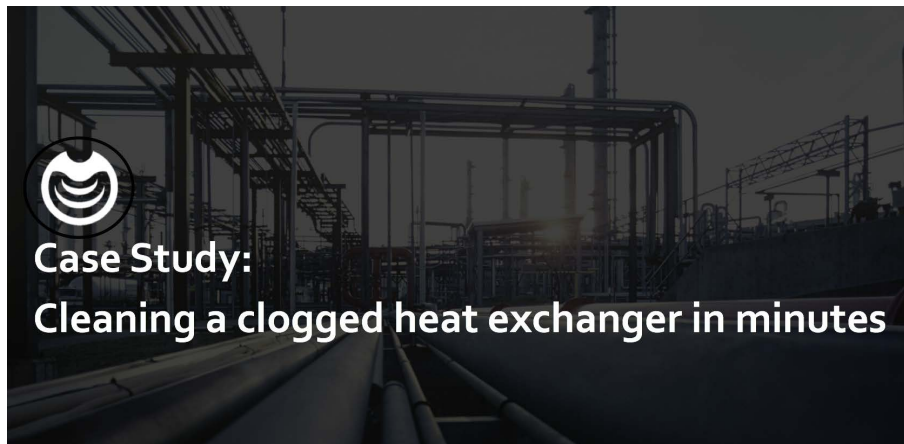




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Heat exchanger fouling: the big picture and case study

Home All Blog Heat exchanger fouling: the big picture and case study



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October 30, 2017 Esteban Soto

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A heat exchanger fouling or scaling in industrial production equipment costs billions of euros every year and has a major negative impact on the environment. Studies have shown that heat exchanger fouling may contribute up to 2.5% of global CO2 emissions, while reducing the global GDP by 0.25%. Biological, mineral, and chemical fouling production equipment causes inefficiencies in terms of energy use and production yield. Clogging may even break the equipment if the cleaning is not done on time.

- Getting rid of pipeline fouling in minutes
- Our First Full Year: 2017 Top 5 Moments
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Heat exchanger fouling may contribute up to 2.5% of global CO2 emissions, while reducing the global GDP by 0.25%.

Archives

March 2018

Traditional cleaning methods are either mechanical (sand/soda/dry ice blasting, high pressure water cleaning, brushing) or chemical. All these methods require stopping the production and dismantling the clogged equipment. Such stops can cost tens or even hundreds of millions of euros to large manufacturing companies. On top of it, these methods can seriously harm the equipment and do not always have optimal cleaning performance.

November 2017

The current methods' efficiency is further reduced by the increasingly complex shapes of the current and future production equipment. Now, if we talk about chemical cleaning, the method employs hazardous substances that can cause health issues to the cleaning personnel and to people living near the production facility.

June 2017

The drawbacks of these methods are becoming even more prominent with the growing trend of implementing smart factories in manufacturing. Because traditional cleaning methods require dismantling the equipment and opening it, the level of fouling inside the production processes cannot be monitored accurately when the process is running. Therefore, modern process industries can't know what is happening inside their equipment.

Blog

News

Case Study: Getting rid of heat exchanger fouling in minutes

We helped one of our clients to clean their heat exchangers with the **AltumHX** solution. Our customer tried every single

traditional cleaning solutions but nothing worked. It was only after Altum came in that they could get their equipment up and running in just minutes.

In this case study you will see a "before and after" set of pictures while we cover the problem, the solution and the benefits of cleaning a heat exchanger in minutes with Power Ultrasound. You can get the case study by submitting the form on the bottom right corner.

Do you have any questions or issues with fouling in different type of equipment? Our engineers are eager to know more about it, just [contact us!](#)

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Showcasing Power Ultrasound at Helsinki's Teknologia17

Home All News Showcasing Power Ultrasound at Helsinki's Teknologia17



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October 11, 2017 Esteban Soto

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We are really excited to be able to present our Power Ultrasound technology at home! Maintenance Technology 2017, Teknologia17, expo in Helsinki kicked off yesterday and we'll continue presenting until tomorrow Thursday, October 12th.
Altum's COO Bo Malmberg at Slush Tokyo 2018

Releasing state-of-the-art AltumPI Mark III
Our solution removes fouling from industrial equipment without the need of stopping production for maintenance. Therefore, we are able to fill a gap in maintenance and cleaning methods that no one else in the world can fill.

Our First Full Year: 2017 Top 5 Moments

Being in here means to Altum that we are getting a better feel of what the market is looking for. It also allow us to how we can continue developing our solution to meet these requirements and needs" says **Shabana Ahmadzai**, Altum's Industrial R&D Engineer. "For me personally, I'm learning to not get too technical when discussing our device properties, but rather

Archives
potential of our technology."

March 2018

And by the way, we are using one of the best video roll ups out there, thanks to our friends at [ShopperScreen](#). Check how sleek it is!

January 2018

December 2017

November 2017

2nd day of #Teknologia17 starts, check us out and learn about cleaning #fouling

October 2017

without stopping production. #PowerUltrasound stand 7H 128

September 2017

pic.twitter.com/9OpvlzeR6l

Categories

Altum Technologies (@aitumtech) October 11, 2017

Blog

News

Visit us at Teknologia17: aisle 7H stand 128

We have very experienced people at our Teknologia17 stand to answer any questions you may have. We work with

[industries](#) that go from Oil & Gas, mining, food production, pulp & paper, chemicals and more.

Our team designated to be at the event during these 3 days are our CEO Matias Tainela, COO Bo Malmberg. Also Industrial R&D engineers Shabana Ahmadzai & Tuukka Kekkonen and Marketing Director Esteban Soto will be there.

If you can't make it to Messukeskus in Helsinki just [contact us](#) through our website and one of our awesome engineers will get back to you.

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[Home](#) [maintenance](#)



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Search ...

Recent Posts

- [Altum's COO Bo Malmberg at Slush Tokyo 2018](#)
- [Releasing state-of-the-art AltumPI Mark III](#)
- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Search ...

Recent Posts

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- [Releasing state-of-the-art AltumPI Mark III](#)
- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Altum's fouling cleaning tech is opening eyes in the mining industry

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Mining is one of the biggest industries in the world. Because of its processes it has also a huge amount [...]

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Toronto Mines & Tech: Altum's time to disrupt the mining industry

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Search ...

Recent Posts

- [Altum's COO Bo Malmberg at Slush Tokyo 2018](#)
- [Releasing state-of-the-art AltumPI Mark III](#)
- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



During this week (October 2nd-4th), Altum Technologies' CEO Matias Tainela and COO Bo Malmberg will be taking part on one [...]

[News](#) [events, mining](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)



Altum is among industry leaders in POWTECH 2017

[September 27, 2017](#) [Esteban Soto](#) [Leave a Comment](#)

POWTECH 2017 has arrived and Altum Technologies is present in Nuremberg, Germany in what is one of Europe's biggest industrial [...]

[News](#) [events, news, powtech](#)

Categories

- [Blog](#)
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Disruptive Fouling Cleaning Tech at VERGE 17

[September 14, 2017](#) [Esteban Soto](#) [Leave a Comment](#)

After a very good summer season and lots of ongoing fouling cleaning projects, Altum Technologies will be at VERGE 17 [...]

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Altum is at IMWA 2017: Eliminating scaling from the mining industry

[June 29, 2017](#) [Esteban Soto](#) [Leave a Comment](#)

Our CEO Matias Tainela and COO Bo Malmberg are already in Lappeenranta, Finland. They will talk about eliminating scaling from [...]

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Fouling trembles with fear to this sound

[June 21, 2017](#) [Esteban Soto](#) [Leave a Comment](#)

June has been a great month for Finnish cleantech and specially for Altum Technologies. During the last 2 years we [...]

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Fouling trembles with fear to this sound

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[June 21, 2017](#) [Esteban Soto](#)

June has been a great month for Finnish cleantech and specially for Altum Technologies. During the last 2 years we have been preparing to be able to release a [world class ultrasound technology](#) that tackles fouling issues without the need to stop production to clean the equipment in need.

It is easy to explain what we do in a sentence but completely different to do it in practice. This is why when we took on the challenge to develop [our products](#) we decided to do it properly and release the products with a big boom. For this we invited representatives from the press and from 7 of the most important industries that have challenges with keeping their equipment clean.



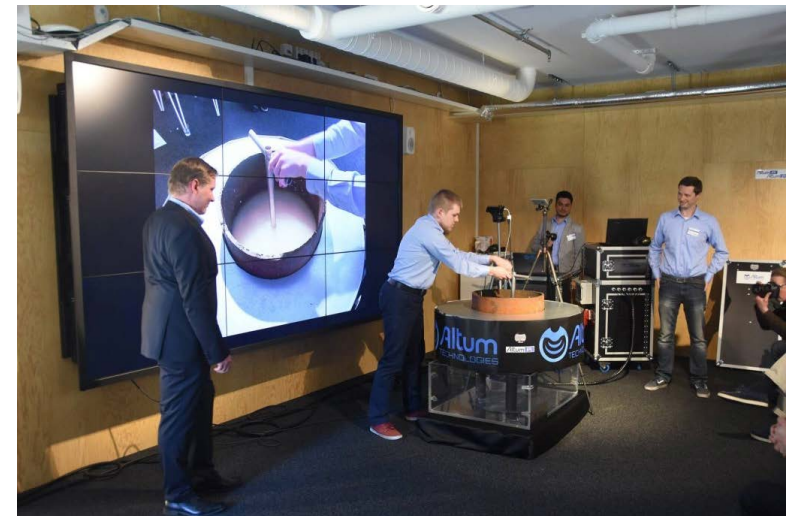
First of all we set the date and made it public: June 7th. This way we knew our deadline and there was no way back, putting that sense of urgency that is vital to get things done in time. Venue: what else than the Cleantech Showroom from Allas Sea Pool, which is in the middle of Helsinki and in front of the presidential palace. It was just the perfect place.

The day came and it was a beautiful sunny day in Helsinki, summer had just started in time for our launch. We welcomed our guests with cocktail bites, sparkling wine and a programme full of insights which included a live demo of our system.

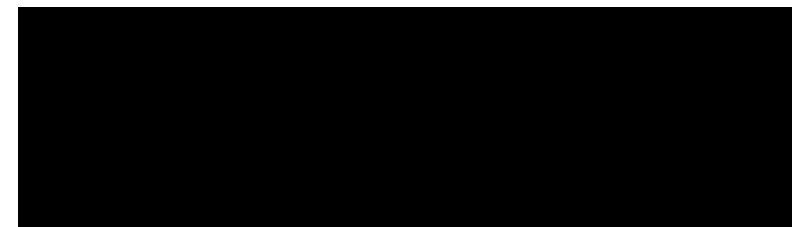
The program included keynotes from our management team: Matias Tainela (CEO), Prof. Edward Haeggström (CTO) and Bo Malmberg (COO). As a guest speaker we had Juha Lindfors from Lifeline Ventures.



The event kept building on excitement as everyone knew how we were going to present our solution, then the moment of truth, this is what our team of engineers led by Timo Rauhala has been waiting for. Timo came in and advised everyone to put earplugs on, when it comes to ultrasound you won't really hear it because of the high frequency levels but we use so much power, that in an open pipe as the one we used, sound pressure level goes so high that ear protection is needed.



Curious of what Power Ultrasound sounds like and what it can do to dirty industrial equipment such as pipes? Take a look at this! We clean fouling without stopping production. (Don't worry, no need of ear protection in this case):





Timo went through the different levels of power of our solution, you could feel pulses of sound in your body as the system cleaned the 500mm metallic pipe. During the demo we made use of IoT capabilities to stop the cleaning process from our mobile app and just like the video above, after only 1 minute of cleaning, the results were obvious.

Soon after the demo our co-founders jumped on the stage for a Q&A session to answer all the possible inquiries our guests had.



We are stoked by the amount of interest in our solution. Inquiries are coming in from several countries around the world, we will definitely keep on providing our expertise and the best service for current and future customers.

On behalf of the Altum Technologies team I would like to thank Lifeline Ventures, Tekes and University of Helsinki for the support they have given us, we definitely wouldn't be here without them. Also a big thanks to each person who joined us for the launch and made this day a remarkable one for us.

We are all set to improve industries and lives through ultrasound. The [Altum Series set of products](#) has been officially released worldwide, so if you are facing challenges related to cleaning equipment such as heat exchangers, pipes, tanks and other type, remember we can clean fouling effortlessly with focused Power Ultrasound and the best part, no need to stop production.

Do you have any questions? Our experts can give you all the information you may need: [Contact Us](#)

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Recent Posts

- [Altum's COO Bo Malmberg at Slush Tokyo 2018](#)
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- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



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[News](#) [events, mining](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
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[News](#) [events, news, powtech](#)

Categories

- [Blog](#)
- [News](#)

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For us it is the right time to attend Toronto Mines and Technology, this event will create a path for our international expansion as we are seeking to spread the word of our unique power ultrasound to clean fouling without any stoppages or

Archives dismantling. We have already been at Powtech 2017 this week and now we want to disrupt the mining industry completely.

March 2018

Our technology is very new as we released AltumPI (for pipes) during June 2017 and there are many details and recent developments that haven't reached one of the industries that have serious issues with fouling. So we didn't want to let go of the opportunity to present this solution to all of the mining companies attending the event.

January 2018

December 2017

November 2017

October 2017

September 2017

June 2017

Categories

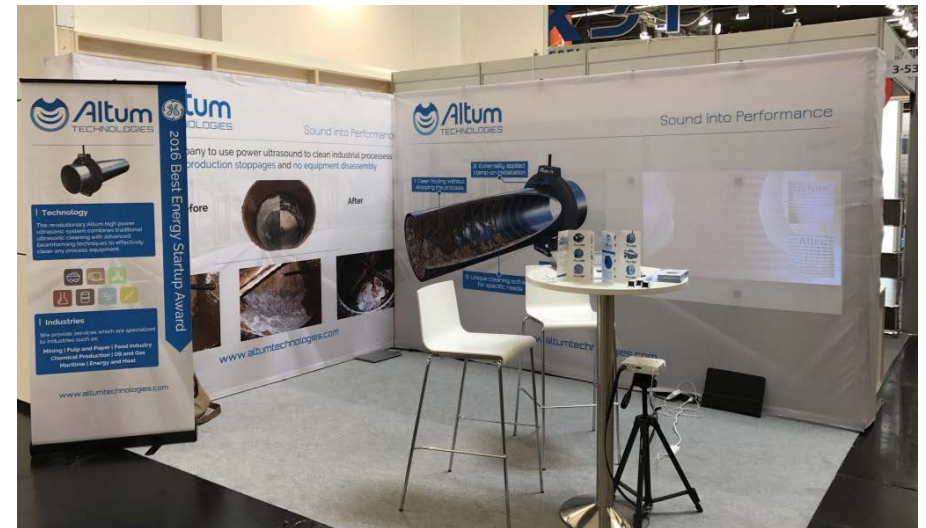
Blog

News

Optimising mining efficiency with cutting-edge tech

This year's Toronto Mines and Technology's primary target is to "optimise mining efficiency with cutting-edge technologies. Based on the practical case studies from the leading mining companies in the world and presentations from innovative solution providers, Mines and Technology will address only the most critical topics and concerns of the target market and which technologies are best placed to address these." Altum Technologies fits completely #MTToronto17's goal and we will be looking forward to have great conversations around these topics.

As we are working already with a mining company, our engineers have benchmarks of our ultrasound cleaning capacity for this specific industry. We want to collaborate with mining companies to help them optimise their process. Have you thought about a fouling maintenance free process? What would you do with one more day of production a year? For all of our clients this is the holy grail and we want to share it with the mining industry too.



Transform Sound into Performance

We will be located in Exhibition Stand 6, so we can meet there and tell you more about how together with our clients we are eliminating fouling while transforming Sound into Performance. You can read the company's official description at MTToronto17's website: <https://toronto.minesandtechnology.com/gsponsors/altum/>. Follow our event coverage through our [Linkedin page](#) and Twitter [@AltumTech](#)

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[Home](#) [events](#)



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- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



[News](#) [events, news, powtech](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Home All News Altum is among industry leaders in POWTECH 2017



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POWTECH 2017 has arrived and Altum Technologies is present in Nuremberg, Germany in what is one of Europe's biggest industrial events of the year. We have sent an experienced team to showcase our unique fouling cleaning solution and this way solve immediately the needs of several industries that are attending. Our stand is located in Hall 3 – Stand 3-534.

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Lots of interest in Altum's groundbreaking cleantech

"We are having lots of interesting conversations going on with international organizations who have fouling issues in different equipment. Companies from Germany, Italy, Poland, Netherlands, Argentina, Japan, well from all over the world are coming to talk to us because our product is something new that they haven't seen before. They now understand that we can solve immediately their needs." –Timo Rauhala, Altum's CTO. He adds that, "One Italian company that came to visit us said that our technology was 'Fantastic!' "

February 2018

January 2018

December 2017

November 2017

October 2017

September 2017

June 2017

Categories

Blog

News



Our COO, Bo Malmberg, is also part of the team in the event and for him "POWTECH is one of the events that we couldn't miss attending. Fouling is a global issue and we want to let the world know that there is a better way of cleaning it which no one else can do. The event gathers thousands of industry leaders and we are proud to be among them."

Industrial R&D Engineer, Kasper Peterzéns and Marketing Director, Esteban Soto finish the line-up of our representation in Germany this week.

Let's meet during POWTECH 2017!



If you are in POWTECH this year just come over our stand (Hall 3 – Stand 3-534) and we'll be happy to talk with you. Let us explain more about how our technology works. Other option to get in touch is simply by sending us a message through our website here: [Contact Us](#).

You can follow live tweets from our stand through our website [homepage](#) or in our Twitter profile [@AltumTech](#).

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Tag: news

[Home](#) [news](#)



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[News](#) [events, news, powtech](#)

Search ...

Recent Posts

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- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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[News](#) [events, news, powtech](#)

Search ...

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- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Home All News Disruptive Fouling Cleaning Tech at VERGE 17



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Altum's COO Bo Malmberg at Slush Tokyo 2018

Releasing state-of-the-art AltumPI Mark III

This fall will give Altum the opportunity to participate in the biggest expos and events from several industries. Nor-Shipping and CMAA have received the invitation to have taken part of during this year and now the time has come for VERGE 17 (19-21 Sept.) in Santa Clara, California.

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Archives

March 2018

February 2018

January 2018

December 2017

November 2017

October 2017

September 2017

June 2017



Categories

The event will allow more than 2,000 leaders from the world's largest companies get to know the most innovative startups to explore the latest technologies, tools and trends accelerating the clean economy. Of course we want to be part of it!

Blog

News

As Altum's cleantech is solving a huge problem when it comes to industrial energy efficiency and production, we are looking forward to have fruitful conversations.

Come and meet us at VERGE 17!

Our CEO [Matias Tainela](#) and Marketing Director [Esteban Soto](#), will be in San Francisco Bay Area from the 17th until the 24th of September. If you want to have a chat before/during/after VERGE17 just send us an email info (at) altumtechnologies.com or through our contact form here: <http://www.altumtechnologies.com/contact-us/>

We are focused on improving the lives of people around the world and there is no better way than attending to this important event to let everyone know how we are doing this by getting rid of fouling with Power Ultrasound.

[News](#)

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Category: News



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Search ...

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- [Altum's COO Bo Malmberg at Slush Tokyo 2018](#)
- [Releasing state-of-the-art AltumPI Mark III](#)
- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



[News](#) [altum series, fouling, industrial cleaning, power ultrasound, ultrasonic](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Newer posts

Categories

- [Blog](#)
- [News](#)



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Category: All

[Home](#) [All](#)



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- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



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[News](#) [events, mining](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)



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[News](#) [events, news, powtech](#)

Categories

- [Blog](#)
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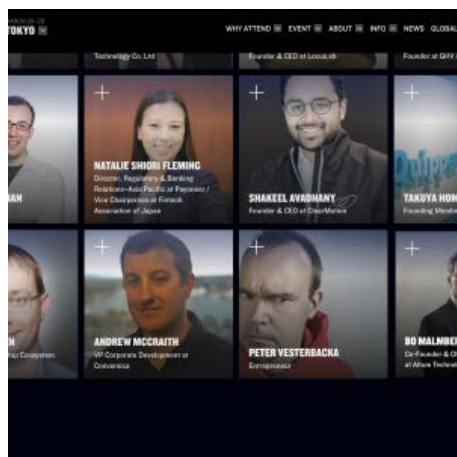
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Year: 2018

Home 2018



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News

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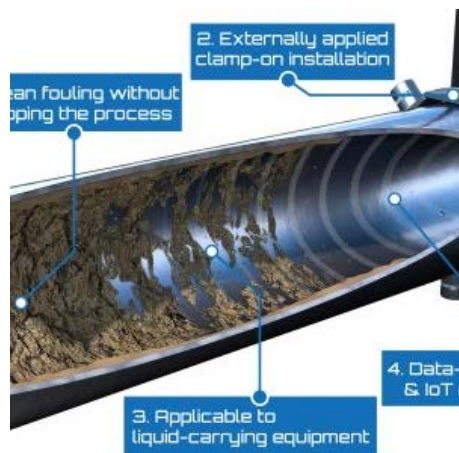
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- Releasing state-of-the-art AltumPI Mark III
- Getting rid of pipeline fouling in minutes
- Our First Full Year: 2017 Top 5 Moments
- Altum Technologies to pitch at New England Venture Summit 2017

Archives

- March 2018
- February 2018
- January 2018



[News](#) [altumPI, fouling, mark III, pipes](#)

Getting rid of pipeline fouling in minutes

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2018 is here, after winning Slush 100 competition and reviewing our top 5 moments of last year, it was about [...]

[Blog](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Our First Full Year: 2017 Top 5 Moments

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It has been an amazing year 2017 for the whole team and we didn't want to leave it without taking [...]

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- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



New day and new week, after Altum's win in Slush100 pitching competition, one of Europe's most prestigious startup events, it [...]

[News](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



Winning Slush100 is just the beginning!

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Last week was one of the most epic weeks Altum Technologies has had in its very short history. Our fouling [...]

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Introducing a fouling killer Cleantech-as-a-Service

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Announcing the Altum Series' Cleantech-as-a-Service model. It really can't get easier than this to remove industrial fouling. After releasing our [...]

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**11th FENNOSCANDIAN
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Altum at the 11th Fennoscandian Exploration and Mining (FEM 2017)

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Our COO Bo Malmberg will be present at the 11th Fennoscandian Exploration and Mining FEM 2017 in Levi, Finland from [...]

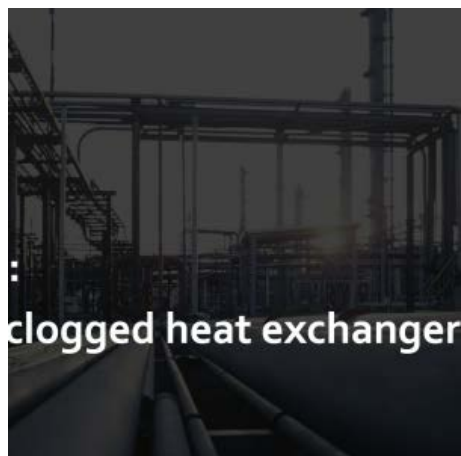
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Heat exchanger fouling: the big picture and case study

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A heat exchanger fouling or scaling in industrial production equipment costs billions of euros every year and has a major [...]

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Showcasing Power Ultrasound at Helsinki's Teknologia17

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We are really excited to be able to present our Power Ultrasound technology at home! Maintenance Technology 2017, Teknologia17, expo [...]

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Altum's fouling cleaning tech is opening eyes in the mining industry

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Mining is one of the biggest industries in the world. Because of its processes it has also a huge amount [...]

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Toronto Mines & Tech: Altum's time to disrupt the mining industry

[September 28, 2017](#) [Esteban Soto](#) [Leave a Comment](#)

During this week (October 2nd-4th), Altum Technologies' CEO Matias Tainela and COO Bo Malmberg will be taking part on one [...]

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Altum is among industry leaders in POWTECH 2017

[September 27, 2017](#) [Esteban Soto](#) [Leave a Comment](#)

POWTECH 2017 has arrived and Altum Technologies is present in Nuremberg, Germany in what is one of Europe's biggest industrial [...]

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Altum's fouling cleaning tech is opening eyes in the mining industry

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Mining is one of the biggest industries in the world. Because of its processes it has also a huge amount of fouling issues.

Fouling isn't just stopping the process for maintenance but it also decreases productivity. On top of that it increases equipment costs, energy consumption, among plenty of other things.

Releasing state-of-the-art AltumPI Mark III

For this situation created an opportunity to be solvers in a world that needs it. After years of research and development, Altum Technologies' founders came up with something that was never tried before: cleaning fouling without stopping production. A massive challenge but we made it possible thanks to the capabilities of Power Ultrasound. So now companies around the world can clean fouling with no production stoppages or equipment disassembly.



Mining industry amazed with new cleaning tech

During this week we are in Toronto presenting our breakthrough to mining industry leaders. Our CEO Matias Tainela and COO Bo Malmberg have already experience with mining companies and we couldn't miss the opportunity to come to [Toronto Mines and Technology](#) conference. We've had amazing conversations and getting positive feedback about our [Altum Series solution](#).

"It's truly fantastic to promote Altum Series here in Canada. People are amazed what Altum Series can do to help with their fouling issues in various different mining processes. Fouling really is a huge global issue. Toronto Mines and Technology event has brought us concrete customer cases in which we can immediately proceed towards long lasting benefits to our customers." – **CEO Matias Tainela**



Dreaming of a fouling free process?

Don't dream anymore it is possible! Today is our last day in Toronto Mines and Technology conference so if you are around please come over to stand 6 where you can meet us and ask anything you want. If you are not around just go ahead and [contact us through our website](#), our engineers will take care of all your questions.

We want to transform Sound into Performance with you.

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Altum is at IMWA 2017: Eliminating scaling from the mining industry

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Our CEO Matias Tainela and COO Bo Malmberg are already in Lappeenranta, Finland. They will talk about eliminating scaling from the mining industry as part of the 13th International Mine Water Association Congress [IMWA 2017](#).

Altum's COO Bo Malmberg at Slush Tokyo 2018

Releasing state-of-the-art AltumPI Mark III.

IMWA 2017's Congress theme will be "Mine Water & Circular Economy" which will be presented in 243 oral and poster presentations. Circular economy means, "closing the loop" of product life-cycles by improving recycling and re-use. In case of

mine water, this means that mining wastes and mine water are used to extract valuable materials, such as metals, fertilizers or adsorbents for waste water purification." –**Christian Walkersdorfer**, IMWA 2017 Congress Chair.

Altum Technologies to pitch at New England Venture Summit 2017

Mining and reliable mine water management are a topic of great importance for the worldwide mining industry. Many

Archives are having lots of problems with scaling in equipment such as tanks and pipelines, this is why Altum was invited

to participate and present our one-of-a-kind system which cleans scaling with power ultrasound without the need of stopping production.

March 2018

February 2018

The IMWA 2017 congress will continue until June 30th, even if you are not at the event but interested in hearing more about

January 2018

how Altum set of power ultrasound cleaning products can make your production and maintenance processes more efficient

just December 2017 We can't wait to help.

November 2017

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September 2017

June 2017

Categories

Blog

News



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Recent Posts

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- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Search ...

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- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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[News](#) [altum series](#), [fouling](#), [industrial cleaning](#), [power ultrasound](#), [ultrasonic](#)

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Recent Posts

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- [Releasing state-of-the-art AltumPI Mark III](#)
- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Search ...

Recent Posts

- [Altum's COO Bo Malmberg at Slush Tokyo 2018](#)
- [Releasing state-of-the-art AltumPI Mark III](#)
- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)

Categories

- [Blog](#)
- [News](#)



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Year: 2017

[Home](#) [2017](#)



Disruptive Fouling Cleaning Tech at VERGE 17

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Recent Posts

- [Altum's COO Bo Malmberg at Slush Tokyo 2018](#)
- [Releasing state-of-the-art AltumPI Mark III](#)
- [Getting rid of pipeline fouling in minutes](#)
- [Our First Full Year: 2017 Top 5 Moments](#)
- [Altum Technologies to pitch at New England Venture Summit 2017](#)

Archives

- [March 2018](#)
- [February 2018](#)
- [January 2018](#)



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[News](#)

- [December 2017](#)
- [November 2017](#)
- [October 2017](#)
- [September 2017](#)
- [June 2017](#)



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Categories

- [Blog](#)
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