

BLUE TECH STARTUP DIVERSICAN INTRODUCES CHEMICAL-FREE CENTRIFUGE TO ELIMINATE BALLAST WATER POLLUTION

New Device is Engineered to eliminate harmful bacteria and invasive species without toxic chemical byproducts

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/EINPresswire.com/ -- Nhut Dang launched Diversican in 2024 to solve the growing global water quality crisis and deliver meaningful environmental impact through advanced engineering.

The scale of the problem is massive. Global shipping vessels transport and discharge roughly 10 billion tons of ballast water every year. This water carries a dense biological mix of fish larvae, toxic algae, and deadly bacteria like *Vibrio cholerae*. Scientists estimate that up to 7,000 different marine species travel daily in the ballast tanks of ocean-going vessels. When an invasive species takes hold, the economic and environmental destruction is staggering. For instance, when European zebra mussels were accidentally introduced into North America's Great Lakes, they caused over \$3 billion in economic losses by clogging city water infrastructure.

"The maritime industry has traditionally relied on heavy chemical chlorination or ozonation," says Dang. "These treatments can create harmful byproducts and corrosion, and performance can still be inconsistent, allowing invasive organisms to survive treatment and enter new ecosystems."

To disrupt this global pathway for invasive species, Diversican is developing high-performance, continuous-flow centrifuges that use smooth, non-turbulent (laminar) flow to separate fine particles and biological material. "Our centrifuge has the potential to physically remove bacteria-sized particles and other fine suspended material before discharge or downstream treatment," explains Dang. "We see an



Nhut Dang and the Diversican team are developing a state-of-the-art centrifuge prototype that can separate down to submicron size particles insoluble water pollutants. Successful testing with submicron heavy metal show promising results to date.

urgent need for treatment technologies that remain effective under challenging real-world water conditions. Physical separation could provide an additional barrier against biological contaminants while reducing reliance on chemical disinfectants and consumable filtration media.”

Diversican’s breakthrough approach has quickly earned recognition across the "Blue Tech" sector. The startup was recently selected for the VentureWell Ocean Enterprise Accelerator, a joint initiative with the National Oceanic and Atmospheric Administration (NOAA) to help high-potential ventures transform novel ocean technologies into market-ready products.

“Nhut brings a practical, systems-level approach to ballast-water treatment.

Diversican’s submicron-capable centrifuge technology aims to strengthen compliance, lower operating costs, and reduce downtime—exactly the kind of blue economy innovation this cohort is designed to advance,” says Tricia Compas-Markman, VentureWell’s Director of National Ventures Programs.

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As ships move around the world they carry 'unwanted guests'—invasive species that threaten local marine environments. We look forward to seeing Diversican’s progress solving this global issue.”

Ann Carpenter, CEO of Braid Theory

Diversican’s momentum extends across major industry ecosystems. The company was recently named to the Techstars Founder Catalyst WaterTech & Sustainability program and selected as one of the "Blue Dozen" for Blue Institute Labs' BX6 Blue Excelsator cohort (<https://www.marinetechologynews.com/news/institute-reveals-excelerator-cohort-661528>).

“As ships move around the world to bring us the goods we need, they are sometimes carrying ‘unwanted guests’—invasive species that threaten local marine environments,” says Ann Carpenter, CEO of Braid Theory.

“As a graduate of Braid Theory’s pre-accelerator program, we look forward to seeing Diversican’s continued progress towards solving this global issue.”

Looking ahead, Diversican is expanding its commercial footprint by deploying its centrifuge



VentureWell and the National Oceanic & Atmospheric Administration (NOAA) recently convened a meeting of 15 early stage startups (including Nhut Dang and Diversican) in Newport, Rhode Island, for a hands on summit on strategy, networking and sharing resources.

technology into terrestrial environmental sectors.

"We've been sharpening our commercialization focus on municipal wastewater sludge dewatering," says Dang. "Our goal is to achieve over 30% cake solids, drastically reducing the volume of waste utilities must haul and dispose of. We look forward to partnering directly with cities, counties, and water treatment districts to deploy this solution."

For further information about Diversican and its water treatment technologies, visit <https://diversican.com>

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About Diversican

Diversican is an innovative environmental technology company dedicated to improving human well-being and protecting marine ecosystems through high-quality, non-chemical water treatment solutions. By leveraging advanced submicron centrifugal separation technology, the company provides highly effective, energy-efficient ballast water treatment that eliminates bacteria and invasive species without the use of harmful chemicals. Engineered for commercial viability, Diversican's cost-effective systems deliver significant operational savings to shipping vessels while driving global environmental sustainability.

Diversican is an innovative water treatment company dedicated to improving the environment and human well-being. They provide cost-effective, non-chemical commercial solutions, including advanced centrifuge technology for ballast water treatment that removes bacteria and invasive species without chemicals.

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Nhut Dang (seen here in a Hazmat suit) recently completed the Georgia state-licensed wastewater operator program to better understand wastewater operations on a more hands-on basis. Dang hopes to help cities & counties address their wastewater sludge pollutant issues.

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