



PRESS RELEASE

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Puralytics Awarded NSF Grant to Remove MTBE Water by Photochemical Process

Summary:

Puralytics has pioneered a new photochemical process for water purification. The National Science Foundation has awarded Puralytics a research grant to verify the removal of MTBE, an organic compound affecting water quality worldwide. This new process has demonstrated effectiveness eliminating organics, heavy metals, and pathogens from water.

October 30, 2009

Beaverton, Oregon, USA

Puralytics, an emerging leader in advanced water purification technology, announced it has been awarded a National Science Foundation (NSF) grant in the amount of \$148,796 in response to a Small Business Innovative Research (SBIR) phase I proposal. This groundbreaking research project titled "Novel UV Photocatalytic Process for Removing MTBE from Water" will begin in January 2010. The principle investigator for the project will be Dr. Tom Hawkins, Puralytics' VP of Engineering.

"This funding will enable advanced research into the elimination of organic contaminants that are affecting the worldwide water supply," commented Mark Owen, Puralytics CEO. Methyl tertiary-butyl ether (MTBE) was added to gasoline in the US as an anti-knocking agent for almost three decades starting in the late 1970s, with production as high as 200,000 barrels per day, and has become one of the most common unregulated contaminants in ground water in the US. MTBE is the pollutant in the recent (October 19, 2009) federal jury judgment of \$104.7M against Exxon Mobile for well water contamination in New York City. It is characteristic of many organic chemicals which are extremely difficult to remove from water, but can be eliminated with the Puralytics photochemical process. Learn more about the Puralytic Process at: <http://puralytics.com/html/puralyticProcess.php>.

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The NSF, an independent federal agency, was created by Congress in 1950 "to promote the progress of science; to advance the national health, prosperity, and welfare ..." NSF is tasked with keeping the U.S. at the leading edge of discovery in a wide range of scientific areas. In addition to funding research in the traditional academic areas, the agency also supports "high risk, high payoff" ideas, novel collaborations and numerous innovative projects. NSF research is fully integrated with education so that today's revolutionary work will also be training tomorrow's top scientists and engineers.

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Puralytics has developed a new photochemical water purification technology which uses precise wavelength LEDs to synergistically activate five photochemical processes, which effectively remove organic compounds, heavy metals, and pathogens from water. A list of contaminants removed can be seen at: <http://puralytics.com/html/contaminants.php>. The Shield 500 is available for industrial and commercial applications, and the sunlight powered SolarBag for developing world and disaster relief applications will be available in early 2010.

About Puralytics

Puralytics is an early stage company in Beaverton, Oregon, developing water purification products that effectively remove all of the emerging contaminants such as petrochemicals and pharmaceuticals, eliminate heavy metals like arsenic, lead, and mercury, and provide disinfection of bacteria, viruses, and other pathogens. These products have wide applicability for ultrapure and laboratory processes, well water purification, waste and grey water processing, and remote drinking water purification. Puralytics was chosen by The Artemis Project as a Top 50 Global Water Technology Company competition winner, announced on Earth Day 2009.

Learn more: <http://puralytics.com/html/home.php>

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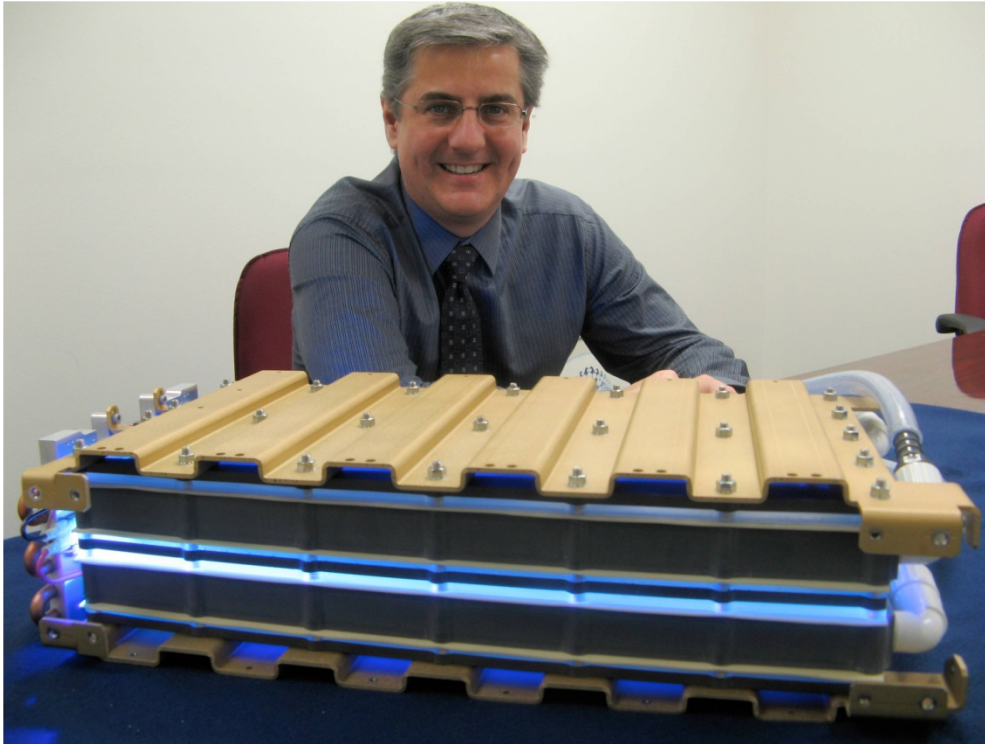
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Key phrases: “water purification”, “organic contaminants”, “photocatalytic oxidation”, “photocatalytic reduction”

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Puralytics CEO Mark Owen demonstrates the new photochemical reactor for advanced water purification. The NSF grant will verify the removal of MTBE from water using the Puralytic Process.

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