

# **Hydro Dynamics, Inc.**

Harnessing the Power of Cavitation



September 2, 2016

## **Hydro Dynamics, Inc. Granted New Crystallization Patent for Pharmaceutical and Mining Industries**

Hydro Dynamics, Inc. (HDI) of Rome, Georgia ([www.hydrodynamics.com](http://www.hydrodynamics.com)) announced today that it has been granted a patent covering its Shock Wave Power Reactor (SPR) cavitation technology for use in crystallization and nucleation. The patent is entitled “Continuous Hydrodynamic Cavitation Crystallization Nucleation Device and Process for High Flow Rates with Low Shear”.

Crystallization from solution is a separation and purification method used in the chemical, food and pharmaceutically industries, particularly for the production of active compounds or their intermediates. Cavitation and the SPR are perfectly suited to provide the nucleation which begins the crystallization allowing processing of large or small flows in a highly controlled manner. The first areas HDI expects to apply this technology are in the pharmaceutical and mining industries.

"This patent potentially represents a completely new line of business for HDI adding crystallization to our existing pillars of mixing, scale-free heating and extraction." said Doug Mancosky, VP of R&D of HDI. "This patent, coupled with other new patents and patents pending, setup HDI to have new lines of business and a strong intellectual property portfolio for years to come."

### **About Hydro Dynamics**

Hydro Dynamics, Inc. is located in Rome, Georgia and is the developer and manufacturer of the cavitation based ShockWave Power™ technology embodied in the ShockWave Power™ Reactor (SPR™). The ShockWave Power™ technology uses the physical phenomenon of cavitation, normally known as destructive force, and harnesses it to solve critical industrial mixing, extraction and heating problems. The ShockWave Power™ technology can now be found on four continents in applications ranging from biodiesel production to hops extraction for beer. Learn more at: [www.hydrodynamics.com](http://www.hydrodynamics.com).