

# Hyde Marine Congratulates Optimarin on Obtaining the First U.S. Coast Guard Type Approval of a UV Technology Ballast Water Management System

PITTSBURGH, PA - Dec. 5, 2016 - Hyde Marine, the trade name of Calgon Carbon Corporation's (NYSE: CCC) Calgon Carbon UV Technologies LLC subsidiary, wishes to congratulate Optimarin on obtaining the first United States Coast Guard (USCG) Type Approval for a ballast water management system in accordance with 46 CFR § 162.060. With entry-into-force of the IMO Ballast Water Management Convention in September 2017, ship owners can now have confidence that manufacturers - including Hyde Marine - should be capable of passing USCG testing requirements, and provisioning UV technology based ballast water management systems that will comply with both IMO and USCG regulations.

Hyde Marine utilizes a similar technology with filtration and medium-pressure UV for disinfection, and is preparing to perform land-based testing in February 2017 in accordance with the preferred staining test method for USCG Type Approval. Successful land-based testing for IMO approval was previously completed in 2008 and again in 2014 using the most probable number (MPN) test method.

"We expect to be able to submit our USCG Type Approval application in the second half of 2017 following the completion of our testing," said Chris Todd, Executive Director of Hyde Marine. "We are excited about the opportunity to help ship owners comply with both IMO and USCG ballast water management regulations."

## **About Hyde Marine**

*With more than 100 years in the maritime industry and pioneering development of ballast water treatment technologies, Hyde Marine, the trade name of Calgon Carbon Corporation's (NYSE:CCC) Calgon Carbon UV Technologies LLC subsidiary, has become the leading U.S. manufacturer and educator regarding regulations, technologies, installation experiences, and challenges facing this sector. Since its initial launch in 1998, the Hyde GUARDIAN® BWTS has rapidly emerged as an industry leader featuring mechanical separation followed by UV disinfection - with more than 460 Hyde GUARDIAN® units sold to date for installation in various ship types and sizes around the world. For more information, visit [www.hydemarine.com](http://www.hydemarine.com).*

## **About Calgon Carbon Corporation Pure Water. Clean Air. Better World.**

*Calgon Carbon Corporation (NYSE:CCC) is a global leader in innovative solutions, high quality products and reliable services designed to protect human health and the environment from harmful contaminants in water and air. As a leading manufacturer of activated carbon, with broad capabilities in ultraviolet light disinfection, the Company provides purification solutions for drinking water, wastewater, pollution abatement, and a variety of industrial and commercial manufacturing processes. Calgon Carbon is the world's largest producer of granular activated carbon and supplies more than 100 types of activated carbon products - in granular, powdered, pelletized and cloth form - for more than 700 distinct applications. With the recent acquisition of complementary wood-based activated carbon and filtration media capabilities located in Europe, Calgon Carbon becomes an even more global and diverse industry leader in activated carbon, reactivation, and filtration media in the form of diatomaceous earth and perlites. Headquartered in Pittsburgh, Pennsylvania, the Company employs approximately 1,400 people at 21 manufacturing, reactivation, and equipment fabrication facilities in the U.S., Asia, and in Europe, where Calgon Carbon is known as Chemviron. For more information about Calgon Carbon's leading activated carbon, filtration media, and ultraviolet technology solutions, visit [www.calgoncarbon.com](http://www.calgoncarbon.com).*

*This news release contains historical information and forward-looking statements. Forward-looking statements typically contain words such as "expect," "believe," "estimate," "anticipate," "should", or similar words indicating that future outcomes are uncertain. Statements looking forward in time, including statements regarding our ability to successfully complete testing of our UV-based ballast water treatment system under U.S. Coast Guard methods, and ultimately obtain U.S. Coast Guard Type Approval for our ballast water treatment system, future growth and profitability, price increases, cost savings, broader product lines, enhanced competitive posture and acquisitions, which are included herein and those which are included in the company's most recent Annual Report pursuant to the "safe harbor" provision of the Private Securities Litigation Reform Act of 1995. They involve known and unknown risks and uncertainties that may cause the company's actual results in future periods to be materially different from any future performance suggested herein. Further, the company operates in an industry sector where securities values may be volatile and may be influenced by economic and other factors beyond the company's control. Some of the factors that could affect future performance of the company are higher energy and raw material costs, costs of imports and related tariffs, labor relations, availability of capital and environmental requirements as they relate both to our operations and to our customers, changes in foreign currency exchange rates, borrowing restrictions, validity of patents and other intellectual property, and pension costs. In the context of the forward-looking information provided in this news release, please refer to the discussions of risk factors and other information detailed in, as well as the other information contained in the company's most recent Annual Report.*

###

## CONTACT INFORMATION

Dan Crookshank

Director - Investor Relations & Treasurer

412.787.6795

[dcrookshank@calgoncarbon.com](mailto:dcrookshank@calgoncarbon.com)



+1.724.218.7001 | [www.hydemarine.com](http://www.hydemarine.com)