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**New Cryogenic Treatment Service for Racing Components Improves Performance**

**Worcester, MA – February 9, 2009** – The Cryogenic Institute of New England, Inc. announces a new cryogenic treatment service that is specially tailored for racing and other high performance enthusiasts. The latest developments are the result of the company’s continuing commitment to meet the needs of the competitive motorsports market.

“We believe that our new treatment profile for motor sports customers provides the greatest control and longest duration of any cryogenic treatment process available”, stated Robin Rhodes, President of the Cryogenic Institute of New England, Inc. As the company’s founder, he has worked closely with several race teams that have become world-record holders in their performance classes for motorcycles and modified stock cars. Others, including boat, ski mobile and kart racers, have been victorious in national, regional and local contests. “Cryogenic treatment of engines, drivetrains, and brake systems results in better performance, increased output and longer part life that helps race teams win more races”, added Rhodes.

The process of cryogenically treating auto parts has become widely adopted in professional racing circuits. Racing teams that compete in NASCAR, Formula 1 and other international racing circuits have been using this technology for years, usually behind closed doors in their very private - and pricey – professional motor shops. “Our Nitrofreeze® cryogenic treatment service modifies the metallurgical microstructure of critical racing components so that recreational racers can have the same competitive edge as the World’s leading professional race teams.”, Rhodes stated.

In practice, stock, modified or custom components are sent to the company’s processing lab in Worcester, Massachusetts, where they are subject to the proprietary Nitrofreeze® cryogenic treatment process. After treatment, the parts are returned to the racer or mechanic for any additional modifications and final assembly. Common parts for cryogenic treatment include all engine components, such as cam and crank shafts, pistons and rings, connecting rods and engine blocks. Drivetrain components, including clutches, gears and shafts, and brake rotors are also widely treated.

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## **New Cryogenic Treatment Service for Racing Components (cont.)**

Cryogenic treatment of racing parts benefits the components in several ways. First, residual stresses from part fabrication are removed, greatly reducing distortion, warping and fatigue failures that are caused by crack propagation of stress lines. Second, steel components adopt a uniform grain structure, eliminating imperfections that improve thermal properties such as heat dissipation. This also reduces the coefficient of friction to produce less drag. Lastly, modifications to the microstructure improve toughness, increase part stability, and greatly enhance wear resistance. “By using our Nitrofreeze® cryogenic treatment service, racers can get increased horsepower and extend the high performance life of critical components, ensuring that they can finish the race, despite the grueling demands that race conditions create”, according to Ryan M. Taylor, Product Marketing Specialist at Cryogenic Institute of New England, Inc.

More information about cryogenic treatment for auto and racing parts is available on the company’s web site at, <http://www.nitrofreeze.com/racing.html>.

The Cryogenic Institute of New England, Inc., located at 90 Ellsworth St. Worcester, MA, is dedicated to the commercial application of cryogenic technologies to serve the needs of industry, government and scientists. The firm offers a full range of cryogenic services, including cryogenic treatment, heat & freeze thermal cycling, cryogenic deflashing & deburring services, shrink fitting services, and dry ice (CO<sub>2</sub>) blast cleaning. It also offers engineering services, cryogenic lab work in support of R & D, and custom equipment design for new and unique cryogenic applications. It is a corporate sustaining member of the Cryogenic Society of America. To learn more visit <http://www.nitrofreeze.com>.

The Cryogenic Institute of New England Inc. was founded by Robin Rhodes and he first documented the widespread use of cryogenic treatment in motor sports applications in a paper he presented at the 23<sup>rd</sup> Heat Treat Conference of the ASM Heat Treat Society, the world’s preeminent technical body on thermal processing of metals. Both Rhodes and the company have been featured in numerous stories and technical articles about cryogenic treatment. Most recently, this has included being featured in the racing industry’s leading technical journal, Race Engine Technology, for its Nitrofreeze® cryogenic processing service.

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