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FOR IMMEDIATE RELEASE:

Heat Treater's representing local and international companies attended a one-day "Intensive Water Quenching Workshop", on June 5th 2013, in Durham, UK hosted by Geoff B Associates on behalf of IQ Technologies Inc. The participants learned about the application of the IntensiQuench® process -- a "green" alternative to oil and polymer quenching.

Geoff Bolton, presented Dr. Nikolai Kobasko's underlying theory of "intensive quenching" and the benefits from the application of ultra-fast water quench cooling versus traditional oil, water, polymer and gas quenching. Mr. Bolton quoted quenching and distortion expert, Dr. George Totten, who stated, "Water (or water-salt) works fine, is cheaper, and better; if the system is properly engineered."

Case studies outlining the application of the IntensiQuench® process to optimize the properties of a wide variety of steel parts; parts made from traditional "water quench", low carbon steels; to traditional "oil" or "polymer quench," medium and high carbon or carburized steels; plus traditional "air hardening" steels of high alloy. Specific reference was made to boron steel fork-arms and H13 hot work die steels.

There was a short presentation, outlining the use of the DANTE® computer modeling software for implementing intensive water quenching on various parts for optimizing alloy selections, increasing beneficial compressive stresses and predicted micro-structures. A case study of intensively quenched S5 die bars was used in this demonstration.

The presentation on equipment, focused on the basic principles for designing Intensive Quenching Equipment and specific examples of plant.

- The 6,000 gallon batch IQ Water Tank, at Akron Steel Treating
- The Integral Quench and Atmosphere Furnace, c/w 11,000 gallon IQ Water Tank at Euclid Heat Treating
- Examples of single part quenching, helicopter gears, shafts, barrels and torsion bars.
- The use of Pressurized IQ Water Tanks

Participant's comments included; "course overall, very enjoyable" and "good forum for discussion".

For more information on IntensiQuench® methods or equipment, contact Dr. Michael Aronov, CEO, at m.a.aronov@sbcglobal.net, or click on www.intensivequench.com.

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