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FOR IMMEDIATE RELEASE

Two Technical Papers Co-Authored by NanoSteel's Chief Technical Officer Accepted for Inclusion in Refereed Publications

PROVIDENCE, R.I. (Thursday, December 7, 2006) – The NanoSteel® Company, a leading producer of nano-structured steel alloy materials for industrial applications, announces that two technical papers co-authored by NanoSteel's chief technical officer, Daniel J. Branagan Ph.D., have been accepted for inclusion in refereed publications.

"Towards the Development of a New Iron Age" was co-authored by Branagan, A. V. Sergueeva and A. K. Mukherjee, and published in the October 2006 issue of *Advanced Engineering Materials*. This paper discusses how solidification of iron-based alloys into metallic glasses by employing a solid state transformation called glass devitrification can increase the tensile strength of iron, the main constituent found in most commercial steel alloys, up to 900,000 lb/in² (6.2 GPa). NanoSteel utilizes the glass devitrification process in the manufacture of its patented Super Hard Steel® (SHS) alloys.

"Phase morphology effect on elevated temperature mechanical behavior of nanostructures" was co-authored by Sergueeva, N.A. Mara, Branagan and Mukherjee and is scheduled to be published in an upcoming issue of *Materials Letters*. This paper discusses a devitrification procedure by annealing applied to a multi-component iron-based metallic glass to obtain nanocrystalline materials. NanoSteel's SHS alloys are nanocrystalline materials which are produced in conventionally-sized feed stock and utilize industrially mature application technology.

Sergueeva, Mukherjee and Mara are members of the Chemical Engineering and Material Science Department at the University of California-Davis.

Abstracts for these two papers are available upon request from NanoSteel.

The NanoSteel Company, Inc., headquartered in Providence, R.I., develops and markets a range of patented SHS nano-structured materials that can be applied with a variety of widely-available industrial processes, including thermal spraying, welding and laser cladding. NanoSteel's proprietary alloys cost-effectively solve or alleviate many of the problems that have a destructive or costly impact on industry today, including wear, erosion, high temperature oxidation and corrosion. For additional information about The NanoSteel Company and its SHS products and applications, visit NanoSteel's Web site at www.nanosteelco.com.

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