



**News Release:** For Immediate Release

**QUANTUM DESIGN INTRODUCES NEW CRYOGEN-FREE MATERIAL CHARACTERIZATION SYSTEM – THE PPMS<sup>®</sup> DYNACOOOL<sup>™</sup>**

--New Cryogen-Free Material Characterization System Provides Advanced Measurements --

PITTSBURGH, PA – March 16, 2009 – At this year’s American Physical Society (APS) meeting in Pittsburgh, PA, Quantum Design introduced its latest Physical Property Measurement System (PPMS) – the Cryogen-Free PPMS DynaCool. Combining the measurement capabilities of the PPMS with a cryogen-free design, this new system offers a new level of performance in materials’ research. Joining the popular PPMS, the world’s most versatile material characterization system, the PPMS DynaCool now gives researchers the choice between a liquid helium-based system and a cryogen-free version.

As stated by Jerry Daviess, President for Quantum Design, "The objective of the PPMS platform has been to provide a wide array of sophisticated turn-key measurement capabilities, it was only natural for Quantum Design to provide these capabilities in a cryogen-free configuration." The PPMS DynaCool now offers users a wide array of PPMS sample characterization measurements in cryogen-free environment.

The Cryogen-Free PPMS DynaCool incorporates major advances in both temperature control and magnetic field control. Utilizing a powerful pulse tube cryocooler to cool both the temperature control system and the superconducting magnet, the PPMS DynaCool provides a temperature range of 50 mK to 1000 K and magnetic fields of 9 or 14 tesla.

Additional information regarding the new PPMS DynaCool or other Quantum Design products can be obtained from the Quantum Design web page at [www.qdusa.com](http://www.qdusa.com).

**About Quantum Design**

Founded in 1982, Quantum Design is a privately held corporation that develops and markets advanced technology cryogenic systems and instruments for the scientific community. Quantum Design is widely recognized as the leading commercial source for integrated laboratory analytical systems incorporating superconducting technology. In addition, through its strong R&D focus and direct foreign offices in the world’s major technology markets, QD has developed a worldwide distribution channel for research-based instruments developed by other technology leaders.