



QUANTUM DEVICES,

INC.

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NEWS RELEASE

QUANTUM DEVICES, INC. OF BARNEVELD, WI, HAS BEEN SELECTED BY NASA TO BE ONE OF THEIR "HALLMARKS OF SUCCESS" DUE TO THE SUCCESSFUL COMMERCIALIZATION OF THEIR NASA TECHNOLOGY, DEVELOPED UNDER THE SMALL BUSINESS INNOVATION RESEARCH (SBIR) PROGRAM.

FOR IMMEDIATE RELEASE

AUGUST 27, 2004

BARNEVELD, WI—QUANTUM DEVICES, INC. ---- Quantum Devices Inc. (QDI), recipient of the 2000 “Space Technology Hall Of Fame” Award, for their “Innovation of Light Emitting Diodes for Medical Applications,” is pleased to announce that they have been selected as the first Wisconsin company to represent the NASA Marshall Space Flight Center as a “Hallmark of Success” for the successful commercialization of their NASA technology, developed under the Small Business Innovation Research (SBIR) program.

QDI developed the High Emissivity Aluminiferous Lighting Substrate TM (HEALS) technology to provide high intensity, solid state lighting to grow plants in space for long term manned space missions. The challenge was to develop a thermal management system that would provide the equivalent energy of the sun on earth while eliminating the unwanted heat energy trapped inside the sealed growth chambers. QDI proposed using a light emitting diode chip. Four light emitting diode chips would fit comfortably on the head of a straight pin. One chip is about the size of a grain of salt.

The successful development of the HEALS technology has opened the door to other exciting market opportunities requiring lighting systems with similar properties. QDI has successfully designed, developed, and marketed the HEALS technology, light sources for Photodynamic Therapy (PDT), a new cancer oncology requiring high intensity, monochromatic light to turn on a drugs’ cancer killing properties.

QDI, in collaboration with Dr. Harry T. Whelan of the Medical College of Wisconsin (MCW), has developed HEALS technology light sources for pediatric brain tumors and for the prevention of oral mucositis in pediatric bone marrow transplant patients. Dr. Whelan is the Distinguished Research Professor at the National Defense University, Bleser Endowed Professor of Neurology at the Medical College of Wisconsin and Director of its Hyperbaric Medicine Unit.

Recently QDI, in support of Dr. Whelan's groundbreaking research in photobiomodulation (PBM) research, developed the Warfighter's Accelerated Recovery by Photobiomodulation, (WARP 10). The WARP 10 is a hand held, portable, HEALS technology light source developed for armed forces personnel to self-administer immediate first aid and care for minor injuries and pain, thereby improving endurance in combat. The WARP 10 was developed under a Defense Advanced Research Products Agency (DARPA) SBIR.

In November 2003, QDI introduced an FDA approved, consumer version of the WARP 10, for temporary relief of minor muscle pain and joint pain. This includes arthritis and muscle spasms, relieving stiffness, promoting relaxation of tissue, and to temporarily increase local blood circulation where applied.

Quantum Devices, Inc. is a privately owned, ISO 9001:2000 certified, Wisconsin photobio technology corporation. Incorporated in 1989, QDI is celebrating their 15th year of manufacturing excellence in Barneveld, Wisconsin. QDI is dedicated to the principle that light provides the power for all life on earth. We believe the quality, delivery and control of light is essential to the wellness of mankind and our advancement into the future.

For more information contact: (608) 924-3000, qdisales@quantumdev.com

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ADDITIONAL INFORMATION

QDI website HOME page: <http://www.quantumdev.com/index.html>

QDI WARP 10 page: <http://www.quantumdev.com/products/led/warp10.html>

WARP 10 Literature (PDF doc:): <http://www.quantumdev.com/pdf/Warp10a.pdf>