

CONNECTICUT QUALITY IMPROVEMENT AWARD PARTNERSHIP, INC.
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Promoting and Recognizing Performance Excellence in Connecticut Organizations

NEWS RELEASE

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**YARDNEY TECHNICAL PRODUCTS/LITHION
WINS GOLD, CONNECTICUT QUALITY IMPROVEMENT
AWARD'S INNOVATION PRIZE**

From 97 applications received by the 19-year old Connecticut Quality Improvement Award Partnership for its 2006 entry level, **CQIA Innovation Prize**, Yardney Technical Products, Inc./Lithion, headquartered in Pawcatuck, CT, received the **Gold** award for its Advanced SEAL Delivery System Lithium Ion Battery, the world's largest Lithium Ion Battery ever produced.

"It is inspiring to see the continuing large number of organizations – both large and small; public, private, government, health care, education and not for-profits – driven by innovation and performance excellence that reach for third party endorsement for their products and services from the Connecticut Quality Improvement Award's Innovation Prize," says Sheila Carmine, founder and executive director of the 19 year old CQIA Partnership. Visit the Connecticut Quality Improvement website: www.ctqualityaward.org for more information.

NUMBER ONE WINNER

A Gold 2006 CQIA Innovation Prize winner, Yardney/Lithion has also been awarded several new contracts for the development of various Lithium-ion batteries for defense and commercial applications. Yardney/Lithion was the recipient of the Silver CQIA Innovation Prize in 2005.

THE INNOVATION

The solution to the long-standing deficiency in stored energy was the development of a 1.3 MegaWatt/Hour Lithium Ion battery. The significance of this size is that it is roughly 1000 times larger than our primary production item, which is a 55Ah/28V lithium ion battery for the USAF B-2 Bomber. The weight of the ASDS system is over 8 tons; however an equivalent system using conventional lead acid batteries would come in at over 40 tons, consuming the entire submarine with zero capacity for SEALs or any other equipment. This first-ever demonstration of a Lithium Ion Battery for primary power in a Manned Navy Submersible was competitively awarded to Yardney after a 9-month "fly-off" where a single battery tube was developed by three competing battery manufacturers. Yardney's design was selected to go forward primarily due to

the innovative form factor allowing the company to exceed stated performance requirements, while remaining within the weight and cost goals of the highly visible development program. The key to our success began with the development of a custom shaped 350Ah lithium ion cell. While our research department had envisioned larger size cells, the largest cell to date sold to the DOD was the B-2's 55Ah cell. Scaling the capacity of a cell more than seven times larger required significant chemistry modification, retooling of our manufacturing processes, and a surge in production output previously never attempted. Over one thousand of these new cells (roughly the size of a large textbook) are distributed into fourteen separate titanium tubes. The electronics "crown assembly" is also a first-ever design in that it monitors each individual cell voltage, as well as containing several overcharge and over discharge safety features. The end result of the one-year production effort is a uniquely qualified, lightweight battery system, which in simplest terms would power a domestic household for over two months at a time without requiring a new charge. The capability has enhanced the effectiveness of the US SEALs, and has brought credit to both Yardney Technical Products and the US NAVY.

The list of 2006 CQIA Innovation Prize gold winners, their cities and the briefest description of their application:

GOLD

Cartus – Danbury – Shock Watch

CURE, New Haven - BioBus and BioBus Educational Programs

defibtech – Guilford – Management Service

Eastern Connecticut State University – Willimantic – The Greening of Eastern

Evolution Benefits – Avon – Benny Prepaid Benefits Card

Ferg Tech – Darien – Software for automobile insurance ID cards

Global Blood Resources LLC – Somers - Hemobag whole blood salvage device for surgery

Holo Touch – Darien – Touchless, Holographic Human-Machine Interfaces

LifeLine Cryogenics – Stamford – Only Blood Cord Stem Cell Bank

MassMutual – Hartford – LifeBridge(sm), Free Life Insurance Program

Pelham Stone – Southport – Delivering Tomorrow's Convergent Solutions Today

Pfizer – Groton/New London Labs – Streamlining the Drug Discovery Process

Pitney Bowes – Shelton – Portable Anthrax Detection System

Qualidigm – Middletown – Medicare Patient Safety Monitoring System (MPSMS)

Robinson & Cole – Stamford & Hartford – SUCCESS Program

Sealed Air – Danbury – Foam Packaging

Stanley – New Britain – Tripod Flashlight

Triple Point Technologies – Westport – Commodity XL – the only trading and risk management software solution that provides true multi-commodity functionality

Xerox – Stamford – Emulsion Aggregation Toner Technologies

Yardney – Pawcatuck – Advanced SEAL Delivery System Lithium Ion Battery, World's largest Lithium Ion Battery ever produced.