2004 Frost & Sullivan Award for Excellence in Technology



Award Recipient
JP Laboratories, Inc.

Frost & Sullivan's 2004 Excellence in Technology Award recipient in the field of homeland security (nuclear countermeasures) is JP Laboratories, Inc. a product research and development company based in Middlesex, NJ. JP Labs has been recognized with the Award for developing the 'Self-Indicating Instant Radiation Alert Dosimeter', or SIRAD. This is an affordable and credit card size radiation dosimeter for military and civilian responders to dirty bomb or nuclear attacks.

Frost & Sullivan Confers 2004 Excellence in Technology Award on JP Laboratories, Inc.

Palo Alto, Calif. — Sept. 20, 2004 — In a recent study, titled TI Homeland Security Alert, Frost & Sullivan lauded JP Laboratories, Inc., a product research and development company based in Middlesex, N.J., for its innovative efforts in homeland security, specifically for its developments in the field of nuclear countermeasures.

JP Labs has been conferred with the 2004 Excellence in Technology Award for developing the Self-indicating Instant Radiation Alert Dosimeter (SIRAD). This is an affordable and credit card size radiation dosimeter for military and civilian responders during 'dirty bomb' attacks.

Frost & Sullivan bestows this Award on the company that has pioneered the development and introduction of a novel technology that has either impacted or has the potential to impact several market sectors.

The SIRAD is about the size of a credit card and is convenient to carry, enabling soldiers, police officers, firefighters, and emergency medical personnel to measure their radiation exposure while dealing with the aftermath of a 'dirty bomb' attack. The dosimeter also benefits persons routinely working with radiation, such as researchers, hospital workers, nuclear plant personnel, and people living near nuclear power plants.

When exposed to radiation from a 'dirty bomb' or nuclear detonation, the sensing strip of SIRAD immediately turns blue. The color intensifies as the dose increases, providing instant information on the cumulative radiation exposure of the victim. Thus, it minimizes panic and enables the medical staff to prioritize the more serious cases. Obtaining this information can take days by using other methods such as Geiger counters, ionization chambers (quartz fiber), X-ray film, and thermoluminescent dosimeters.

Electronic radiation detectors are bulky, expensive, and limited in sensing low doses of radiation. The SIRADs, on the other hand, cost from $5 to $10 and are normally set to detect low doses of radiation, and must be used by persons routinely working around nuclear materials.

JP Labs developed SIRAD with the expertise it gained by working on radiation and radiation sensitive compounds for almost 30 years. The dosimeter was partially developed in a project funded by the U.S. Navy. It earned three major government contracts owing to its immense use in combating terrorism and in monitoring exposure to radiation.

During SIRAD's Small Business Innovation Research Program I and II phases, JP Labs received funding from the National Cancer Institute in 1995 and from the U.S. Naval Sea System Command in 1998. Currently, the interagency Technical Support

Working Group (TSWG) has a contract with JP Labs to improve and test the badge, supported with funds from the U.S. Departments of Defense, Justice, Homeland Security, and State.

Currently, JP Labs is supplying SIRAD to the U.S. armed forces, police, fire fighters, medical personnel, and persons working in or living near nuclear power plants in the United States. It also supplied badges to TSWG during the Iraq war. The firm plans has introduced a more sensitive SIRAD badge for monitoring 0 to 200 rads – five times as sensitive as the current model – and having a shelf life of at least one year. JP Labs plans to introduce 0 to 25 rads SIRAD badge and market both versions of the dosimeter.

"By developing a breakthrough radiation dosimeter that helps improve response to 'dirty bomb' attacks, JP Labs has enhanced the level of U.S. homeland security," says Frost & Sullivan Industry Analyst, Michael Valenti. "Its development of an innovative dosimeter technology, along with its pivotal contribution to U.S. homeland security, makes JP Labs a worthy recipient of the 2004 Frost & Sullivan Excellence in Technology Award."

About JP Laboratories, Inc.

JP Labs develops and patents new products/processes for licensing to other companies for eventual manufacturing and marketing on a royalty basis. Products developed by JP Labs include (1) indicators for perishables, such as time-temperature, freeze, thaw and moisture, (2) indicators for sterilization, such as steam, ethylene oxide, plasma, formaldehyde, radiation, dry heat and toxic chemicals, (3) indicators for detecting forgery (4) self-expiring visitors badges, and (5) radiation sensitive devices, such as SIRAD, self-developing dry-fixing instant X-ray film for monitoring radiation therapy and three-dimensional dosimetry. These and many other products developed by JP Labs are summarized on their website: www.jplabs.com. Radiation sensitive devices such as SIRAD are available for licensing and distributorship. Contact: Dr. Gordhan Patel, JP Labs, 120 Wood Avenue, Middlesex, NJ 08846 (phone: 732 469-6670, Fax: 732 469-6680, email: sirad@jplabs.com)

About Frost & Sullivan

Founded in 1961, Frost & Sullivan is recognized as a global leader in growth consulting. Frost & Sullivan Awards are presented to companies that demonstrate best practices in their industry, commending the diligence, commitment, and innovative business strategies required to advance in the global marketplace. Frost & Sullivan rigorously analyzes specific criteria to determine award recipients in a broad spectrum of market industries and landscapes. For further information,

visit www.frost.com.

Contact:
Stacie Jones
210.247.2450
Stacie.jones@frost.com