



February 19, 2013

## **EMCORE Solar Panels Power the Orbital-Built LDCM Satellite**

ALBUQUERQUE, N.M., Feb. 19, 2013 (GLOBE NEWSWIRE) -- EMCORE Corporation (Nasdaq:EMKR), a leading provider of compound semiconductor-based components and subsystems for the fiber optic and solar power markets, announced today that EMCORE solar panels are powering the Landsat Data Continuity Mission (LDCM) satellite that was successfully launched on February 11, 2013 from Vandenberg Air Force Base in California. LDCM was designed, built and tested by Orbital Sciences Corporation for NASA to support the Landsat Earth observation program that began over four decades ago. The LDCM satellite continues a 40-year legacy of seven previous satellites that have collected vital data and images of the Earth's surface and environment.

NASA and the U.S. Geological Survey (USGS) share responsibility for the LDCM program. NASA's Goddard Space Flight Center oversaw development of the flight systems including the LDCM spacecraft and the onboard instruments, and is responsible for mission operations, launch, and in-orbit checkout. The USGS will operate the satellite and the Landsat ground network, image-processing and archive facilities. The data collected constitutes the longest ongoing record of the Earth's surface as seen from space and benefits many industries including agriculture, geology, forestry, regional planning, education, mapping, emergency response and disaster relief. The knowledge gained contributes to research on climate, carbon cycle, water cycle, ecosystems, biogeochemistry and changes to Earth's surface, as well as our understanding of visible human effects on land surfaces.

LDCM joins Landsat 7, which is currently in orbit. Once the spacecraft completes in-orbit testing and is operated by the USGS, it will be renamed Landsat 8, reflecting its place in a distinguished legacy of highly-productive spacecraft. The satellite has two new spectral bands that will allow it to detect clouds on coastal zones. In addition, it will produce more than twice as many images per day than the Landsat 7. LDCM is approximately 20 feet tall with a 9-foot diameter at its widest point. The solar array has four EMCORE solar panels that will extend 32 feet from the satellite when deployed and feature high-efficiency BTJ triple-junction solar cells delivering 3,750 watts of power at End-Of-Life (EOL).

"EMCORE is proud to have once again partnered with Orbital on the deployment of critical on-orbit capability," said Brad Clevenger, General Manager of EMCORE's Photovoltaics Division. "We appreciate the opportunity to contribute to this important mission for NASA and the U.S. Geological Survey and we look forward to seeing LDCM's many contributions to earth science."

EMCORE is the world's leading manufacturer of highly-efficient radiation-hard solar cells for space power applications. With a Beginning-Of-Life (BOL) conversion efficiency nearing 30% and the option for a patented, onboard monolithic bypass diode, EMCORE's industry leading multi-junction solar cells provide the highest available power to interplanetary spacecraft and earth orbiting satellites. EMCORE's proven manufacturing capability, technology leadership, and high-reliability solar cells and panels make us the supplier of choice for demanding spacecraft power systems.

### **About EMCORE**

EMCORE Corporation offers a broad portfolio of compound semiconductor-based products for the fiber optics and solar power markets. EMCORE's Fiber Optics business segment provides optical components, subsystems and systems for high-speed telecommunications, Cable Television (CATV) and Fiber-To-The-Premise (FTTP) networks, as well as products for satellite communications, video transport and specialty photonics technologies for defense and homeland security applications. EMCORE's Solar Photovoltaics business segment provides products for space power applications including high-efficiency multi-junction solar cells, Covered Interconnect Cells (CICs) and complete satellite solar panels. For further information about EMCORE, visit <http://www.emcore.com>.

### **About Orbital Sciences Corporation**

As the industry leader in small- and medium-class space and rocket systems, Orbital Sciences Corporation provides a complete set of reliable, cost-effective products including satellites for Geosynchronous Earth Orbit (GEO), communications and broadcasting, Low Earth Orbit (LEO) spacecraft that perform remote sensing and scientific research, spacecraft used for national security missions, and planetary probes to explore deep space. In addition, Orbital provides full service engineering, production and technical services for NASA, DoD, commercial and academic space programs. For more information on Orbital Sciences Corporation, please visit <http://www.orbital.com/>.

### **Forward-looking statements:**

The information provided herein may include forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, as amended. Such statements include statements regarding EMCORE's expectations, goals or intentions, including, but not limited to, financial performance, production schedules, expected customer sales, product features and their benefits, product quality and product performance. These forward-looking statements are based on management's current expectations, estimates, forecasts and projections about EMCORE and are subject to risks and uncertainties that could cause actual results and events to differ materially from those stated in the forward-looking statements. Risks and uncertainties that could cause EMCORE's actual results to differ from those set forth in any forward-looking statement are discussed in more detail in EMCORE's SEC filings available at [www.sec.gov](http://www.sec.gov), including under the headings "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations." Forward-looking statements contained in this press release are made only as of the date hereof, and EMCORE undertakes no obligation to update or revise the forward-looking statements, whether as a result of new information, future events or otherwise.

CONTACT: EMCORE Corporation

Navid Fatemi

Vice President Business Development

(505) 332-5019

[navid\\_fatemi@emcore.com](mailto:navid_fatemi@emcore.com)

Investor

TTC Group

Victor Allgeier

(646) 290-6400

[vic@ttcominc.com](mailto:vic@ttcominc.com)