

For Immediate Release

Luca Technologies Appoints Robert L. Cavnar Chief Executive Officer

Golden, CO - October 12, 2010 - Luca Technologies Inc., the leading developer of energy farming technologies and producer of sustainable natural gas, today announced the appointment of Robert L. "Bob" Cavnar as Chief Executive Officer. Mr. Cavnar brings extensive energy management experience to Luca. As CEO, Mr. Cavnar will focus on pushing forward Luca's mission to convert depleted wells into new sources for consistent, long-term generation of pure natural gas, increasing deal flow and optimizing revenue streams. Eric Szaloczi, Luca Technologies' Chairman and Founder, along with Luca's executive board, appointed Bob Cavnar as CEO.

"Luca Technologies' vision to create a new, sustainable natural gas sector is what initially attracted me to the Company," said Bob Cavnar, Luca Technologies newly appointed CEO. "Their mission to restore the subsurface reservoirs to pre-drilling conditions and cultivate the natural gas produced by existing microbe populations is a new, exciting approach to renewable natural gas production. I look forward to leading the Luca team in meeting the global demand for clean sources of natural gas."

"Bob Cavnar comes to Luca with over 35 years of experience in the energy industry, and has specific expertise in field operations and management of both public and private energy companies," said Eric Szaloczi, Luca Technologies' Chairman and Founder. "Mr. Cavnar has an extensive background in the development and production of energy reserves. Based on his qualifications and dedication to our mission, we are honored to appoint Mr. Cavnar as our CEO."

Cavnar joins Luca Technologies from Milagro Exploration LLC, a privately held company focused on building investor value by exploring for, developing and producing oil and gas reserves in the Gulf Coast region. Prior to Milagro, Cavnar served as Chairman, President and CEO of Mission Resources from 2002-2005. Before joining Mission, Cavnar held various positions from 1975 to 2002 in the energy industry, including El Paso Corporation, Cornerstone Natural Gas, Mountain Gas Resources, Presidio Oil, and Global Energy Group of the Chase Manhattan Bank in New York. His roles included, but not limited to, Vice President, Chief Financial Officer, Senior Vice President, and Chief Operating Officer.

About Luca Technologies

Luca Technologies is a clean energy company that uses biotechnology to create and sustainably produce natural gas. Our proprietary technology stimulates native microorganisms that reside in subsurface hydrocarbon deposits, such as coal, oil, and organic-rich shales, to accelerate the bioconversion of these resources into methane, the principal component of natural gas, which Luca produces and sells using existing infrastructure. For more information visit <http://www.lucatechnologies.com>.

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