

For Immediate Release

Luca Technologies Receives U.S. Notice of Allowance for Key Patent Covering the Company's Technology for Microbially Enhanced Methane Production

-- Analogous New Zealand Patent Issues --

GOLDEN, CO - October 1, 2009 - Luca Technologies Inc. (Luca), a green energy production company focused on the clean, sustainable generation of natural gas via the microbial cultivation and harvesting of methane from underground hydrocarbon resources, today announced it has received a Notice of Allowance from the U.S. Patent and Trade Office for a patent fundamental to the Company's microbially enhanced methane production methods.

The patent, entitled "Biogenic Fuel Gas Generation in Geologic Hydrocarbon Deposits" (US 12/136,728) covers methods of cultivating methane production from geologic deposits such as coal, oil or shale by:

- collecting a methanogenic (methane-producing) bacterial consortium from water extracted from an underground hydrocarbon formation (i.e. under anaerobic (oxygen-free) conditions,
- using that anaerobic microbial concentrate to inoculate another geologic hydrocarbon deposit, and then - harvesting the methane that the consortium produces over time from anaerobic water within the deposit or from the well headspace.

Luca also noted that an analogous patent, covering the same aspects of its microbially enhanced methane production methods, has issued in New Zealand (Patent No. 5638868).

"We are very pleased to see the approval of these patent applications, both of which cover central elements of our technology for the microbially enhanced production of methane," said Robert Pfeiffer, Luca's president and chief executive officer. "Based on our initial successes with these methods in cultivating methane production under field conditions in the Wyoming coal beds, we believe this technology offers the potential for long-term, sustainable energy generation on a very large scale."

About Luca Technologies Inc.

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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David Gerzof Richard
BIGfish Communications
(646) 912-6789
luca@bigfishmarket.com