

For Immediate Release

Luca Technologies Expands Scientific Advisory Board with Coal Bed Methane and Microbial Consortia Expertise

GOLDEN, CO - October 21, 2009 - Luca Technologies Inc. (Luca), a clean energy technology company focused on the sustainable generation of natural gas via the microbial cultivation and harvesting of methane from underground hydrocarbon resources, today announced two additions to the company's scientific Advisory Board. The new appointees include:

- John P. Seidle, Ph.D., Vice President and Senior Reservoir Engineer with MHA Petroleum Consultants, has over 26 years international experience in unconventional gas reservoirs, primarily coalbed methane, including exploration, development, production optimization, and enhanced recovery projects. Dr. Seidle has also performed reservoir engineering studies and reserve evaluations for gas shales and conventional gas and oil projects throughout the United States.
- John R. Spear, Assistant Professor of Environmental Science and Engineering, Colorado School of Mines, is an expert on environmental microbiology, molecular microbial ecology and the microbiology of extreme environments, including the anaerobic microbial consortia present in hydrocarbon deposits and the optimization of microbial processes for energy production.

"We are very pleased to gain the counsel of these two noted experts on biogenic methane formation and the discovery and management of unconventional gas reservoirs including coal beds and shales," said Bill Mahaffey, Ph.D., chief scientific officer of Luca Technologies. "Their input will be invaluable as Luca continues to develop

and implement its technology for the clean, sustainable creation of long-term supplies of natural gas 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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