

# Fact Sheet

2009 Program Summary

## ConocoPhillips Energy Prize

### About the Program

The ConocoPhillips Energy Prize is a joint initiative of ConocoPhillips and Penn State to recognize new ideas and original, actionable solutions that can help improve the way the nation develops and uses energy. The program will award up to \$300,000 in cash prizes to further the development of innovative ideas and solutions in three areas:

- **Developing new energy sources.**
- **Improving energy efficiency.**
- **Combating climate change.**

### How it Works

For complete program rules and entry details, go to [www.conocophillips.com/energyprize](http://www.conocophillips.com/energyprize).

- The submission deadline is May 1, 2009. Comprehensive proposals (up to 2,000 words) along with supporting materials may be submitted at [www.conocophillips.com/energyprize](http://www.conocophillips.com/energyprize) or via mail to: ConocoPhillips Energy Prize Contest Entries, P.O. Box 9302, Medford, NY, 11763-9302.
- Up to five finalists will be chosen by the panel of expert judges to present their submissions in the fall where the winner and two runners-up will be announced.
- Finalists initially will receive \$25,000 to help further develop their concepts. The winner will receive an additional \$100,000; the first runner-up will receive an additional \$50,000; and the second runner-up will receive an additional \$25,000.

### Important Dates

**May 1, 2009** – Entries due

**October 2009** – Finalists' presentations to judges and announcement of winner and runners-up

*No purchase necessary. Must be a legal U.S. resident at least 18 years of age.*

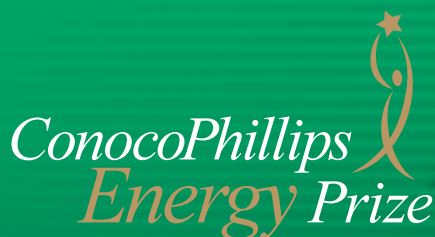
### About the Sponsors

#### ConocoPhillips

ConocoPhillips is an international, integrated energy company with interests around the world. ConocoPhillips uses its pioneering spirit to responsibly deliver energy to the world. The company conducts its business to return maximum value to shareholders while utilizing a wealth of knowledge and resources from its employees and acting responsibly in all communities in which it operates. For more information, go to [www.conocophillips.com](http://www.conocophillips.com).

#### Penn State EMS Energy Institute

The EMS (Earth and Mineral Sciences) Energy Institute at Penn State is a leading research and development organization focused on clean energy technologies that will assist the nation in meeting its growing demands. As part of the Penn State Institutes of Energy and the Environment, the EMS Energy Institute's efforts comprise a wide range of research initiatives, such as carbon materials, clean fuels and catalysis, petroleum and natural gas, stationary power systems, sustainable energy and transportation systems, hydrogen and fuel cells, CO<sub>2</sub> capture and sequestration, and expanding the use of our limited indigenous resources while relying less on nondomestic sources of energy. For more information, go to [www.energy.psu.edu](http://www.energy.psu.edu).



## About the 2008 Finalists

- **Winner:** David A. Gonzales II for the Layered MagWheel, a new technology to provide magnetic acceleration and frictionless braking for vehicles, increasing energy conversion and efficiency.
- **First Runner-Up:** Corban Tillemann-Dick and team for the Radial Expansion Engine, which increases the efficiency and decreases the weight and cost of internal combustion engines by increasing the percentage of the combustion chamber reacting productively and capturing energy otherwise lost through the exhaust system.
- **Second Runner-Up:** Logan Bryce and team for Micro Wind Distributive Power Generation, a small form-factor turbine to harvest power from wind at velocities of 12 mph and below, using an inverter system that allows direct connection to power mains.
- **Finalists:** Dr. Miguel Bagajewicz for the Acoustic Mass Pump and Dr. Greg Rau for the Carbon-Negative Electrolytic Hydrogen.