



DUPONT SUMMIT 2012

..... Pressing Issues Amid the Political Maelstrom

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The Policy Studies Organization

Panel Speakers

David Nagel, PhD, *George Washington University*
Simon Berkovich, PhD, *George Washington University*
Charles Harris, PhD, *George Washington University*
Lev Bernstein, PhD, *BLL, Inc.*

Topic

“Low Energy Nuclear Reactions: Exciting New Science and Potential Clean Energy”

The concept of Low Energy Nuclear Reactions (LENR) was initially and poorly known as “cold fusion”. More than two decades of experimental research have shown that it is indeed possible to trigger nuclear reactions using chemical energies. The mechanisms causing such reactions are still not understood. However, it is clear that LENR offer the possibility of remarkable new energy sources that produce heat and electrical power.

Energy generators based on LENR promise to be small, so they can be used in homes, offices and factories without dependence on the grid. Because of their projected small sizes, they can also be employed for portable and even mobile applications. The sources do not produce greenhouse emissions during operation, and they do not leave behind radioactive waste. Companies in the US, Canada and Europe are planning to have products on the market, possibly as early as 2013. They will produce kilowatts of thermal power, can be lifted by two people and will cost only a few \$K. The fuel cost is projected to be 1000 times less than the cost of heating by burning oil. And, LENR fuels are very compact. Many people believe that the imminent commercial availability of LENR energy generators will be a historical development.