



## ecorpStim consortium announces collaboration with Energy Safety Research Institute

### Press Release

Houston, July 25, 2014

eCORP Stimulation Technologies, LLC (ecorpStim) is pleased to announce the expansion of the collaboration with scientists at Rice University announced March 24, 2014 to include the Energy Safety Research Institute (ESRI) at Swansea University.

The enlarged research group will build upon the work completed to date to extend and amplify their applied research in safety and environmental performance for shale gas development using HFP as a stimulation fluid replacing fresh water used in hydro-fracing.

HFP (heptafluoropropane) is a non-flammable, non-toxic, non ozone depleting gas commonly used in medical inhalers and fire extinguishers.

HFP is being developed by ecorpStim as a rigorously 'green' stimulation fluid for shale production, Non-Flammable Propane Stimulation, which eliminates the environmental concerns associated with the use of large quantities of water and chemical additives typically utilized in water-fracing procedures.

The focus of this partnership will be the comprehensive study and design of the safety aspects of achieving an environmentally and socially acceptable technology for oil and gas production from shales.

The key subject areas for collaborative study will include:

- The capture, recycling and loss prevention of injected HFP
- The chemistry and material science for systems associated with the use of HFP.

According to **Professor Barron**, "These planned research areas exemplify ESRI's mission to develop new technologies to create a responsible energy future. This partnership expands our present research collaborations including those with Rice University and the University of Grenoble." **Andrew R. Barron** is the Ser Cymru Chair of Low Carbon Energy and Environment at Swansea University and the Charles W. Duncan, Jr – Welch Chair of Chemistry at Rice University.

**John Francis Thrash, M.D.**, CEO of ecorpStim, stated that "Our consortium's work thus far supports the expansion of the study, and in our opinion at this juncture, there is little doubt that NFP stimulation can be safely delivered in the field with meticulous environmental care and concern. Although the technology has global application, in Europe today there is a very pressing need to sensibly unlock European based supplies of natural gas and oil."

**The Energy Safety Research Institute (ESRI)** concentrates the College of Engineering's strength in the energy sector and focuses on the safety issues surrounding the development and expansion of existing

energy processes, as well as the safe deployment and integration of new energy technologies. For more information on ESRI, go to

<http://www.swansea.ac.uk/campus-development/baycampus/informationonkeybuildings/energysafetyresearchinstitute/>

**About ecorpStim** - The company ecorpStim (eCORP Stimulation Technologies, LLC) was created in 2012 to provide European countries, as well as those with limited water resources, with alternatives to hydraulic fracturing, based on pure home grade propane and without the use of chemicals, or on heptafluoropropane (in the case of NFP Stimulation). [www.ecorpstim.com](http://www.ecorpstim.com)

**About eCORP International, LLC** - Founded in 1978, eCORP and its predecessor companies have extensive oil and gas experience including underground natural gas storage, natural gas transportation, enhanced oil recovery in conventional reservoirs using propane and butane, exploration for and production of conventional and unconventional (shale) reservoirs, electric power generation and marketing of electricity and gas. [www.ecorpintl.com](http://www.ecorpintl.com)

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