

Marianna Markantoni in 2017 Scottish Crucible award

Marianna Markantoni, a Rural Society Researcher with SRUC's Rural Policy Centre, has been selected to be among the 30 outstanding scientists of the 2017 Scottish Crucible.

SRUC's economists contribute to EAAE conference

SRUC's economists made a major contribution to the 50th European Association of Agricultural Economics conference held recently in Parma, Italy.

Research and analysis: Hazard assessment of chemicals used in oil and gas well development

This project assessed the properties of a range of chemicals that might be proposed for use in hydraulic fracturing in the oil and gas industry. Of the 31 substances investigated, 27 were found to be non-hazardous. There was insufficient information to make firm recommendations on the other four substances.

The results will be used to help the Environment Agency understand the risks from oil and gas exploration and production, and to ensure that environmental permits include conditions that protect groundwater. Groundwater is an important natural resource. It is used for drinking water supply and provides flow for many of our rivers. Activities that could affect groundwater must be controlled so that they do not cause pollution.

The findings are relevant to anyone interested in unconventional oil and gas operations, including oil and gas companies and planners, members of the public and non-governmental organisations.

Research and analysis: Minimising risks from fluid reinjection to deep geological formations

This report provides a greater understanding of the issues related to re-injecting water back into the oil reservoir when extracting oil or gas from the ground. It provides recommendations on how to manage risks from commonly used reinjection practices and describes alternatives such as offsite treatment and disposal.

The report will help the Environment Agency to make decisions about the regulation of the onshore oil and gas industry in England.

Research and analysis: Developing DNA techniques to identify freshwater invertebrates for environmental monitoring

A PhD student at Bangor University, co-funded by the Environment Agency, has taken us closer to using DNA analysis for routine monitoring of freshwater macroinvertebrates (animals a few millimetres long such as insect larvae). The project successfully used new techniques to analyse environmental DNA (eDNA) released by organisms into water, for example in skin or faeces, to identify invertebrate species that are used as indicators of water quality.

With further developments this approach should offer a quicker, cheaper and more effective way to carry out this important part of our environmental monitoring work. The project was part of a wider programme of research by UK agencies to develop DNA-based methods for environmental monitoring.