



# The science and regulation behind fracking



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## The science and regulation behind hydraulic fracturing and shale gas exploitation

The United States has seen an increase in the natural gas extracted from unconventional sources such as shale. This has led to increased employment and lower gas prices. Critics argue that ‘fracking’ has caused poor air quality, groundwater contamination and an increase in noise and vibration.

With the UK Government’s recent announcement that local authorities can benefit from financial incentives for extraction in their areas, fracking has again made the headlines. However local opposition may not allow fracking to take place.

This one day seminar looks at the science and regulation behind hydraulic fracturing, looks at Scotland’s shale gas resource, hears what lessons we should learn from the States as well as looking at the environmental impacts.

## Who should attend

- Elected officials
- Heads of services
- Environmental Health Officers
- Researchers
- Consultancies
- Students

### **For the Attention of REHIS members –**

Participation in this event carries a maximum value of 4.5 hours (core activity) for the REHIS Scheme of Continuing Professional Development.

Working towards a cleaner, quieter, healthier, sustainable Scotland

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## Programme

**09:15** Registration / Tea and coffee

**09:50** Welcome and introduction  
Barry Love, Environmental Law Chambers

### Session 1

**10:00** The potential shale gas resource in Scotland  
Hugh F Barron, British Geological Survey

**10:25** The geoscience and engineering of fracking  
TBC

**10:50** Question and answer session

**11:05** Tea and coffee

### Session 2

**11:25** The regulatory framework  
Emma Taylor, SEPA

**11:50** Controlling the environmental impact of fracking: an overview  
Dr Mark Broomfield, Ricardo-AEA

**12:15** Question and answer session

**12:30** Lunch

### Session 3

**13:30** Fugitive emissions from unconventional gas extraction  
Rod Robinson, National Physical Laboratory

**13:50** Fracking and air quality – lessons from America  
Dr Robert Field, University of Wyoming

**14:20** Comfort Break

**14:30** Noise and vibration from the fracking process  
Colin O'Connor, AECOM

**14:55** The hydrogeology of fracking and water quality  
Gareth Digges La Touche, Golder Associates

**15:20** All panel question and answer session

**15:50** Summary

**16:00** Close



## The science and regulation behind fracking Conference registration form

Registration fees	Local Authority	Corporate	HE & FE institutions	Individual
EPS Affiliate / Member	£100 (+VAT)	£150 (+VAT)	£150 (+VAT)	£140 (+VAT)
Non-members	£200 (+VAT)			
Students*	£30 ( incl. VAT)			

Registration includes morning refreshments and buffet lunch. \* With valid student ID e.g. matric card.

**Please register the following delegates:**

<b>Name:</b>	
<b>E-mail:</b>	
<b>Name:</b>	
<b>E-mail:</b>	
<b>Name:</b>	
<b>E-mail:</b>	

**Appointing organisation:**

<b>Company / Organisation:</b>	
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I enclose a cheque for £ \_\_\_\_\_ made payable to **Environmental Protection Scotland**

Please invoice me for £ \_\_\_\_\_ quoting order number: \_\_\_\_\_

<b>Signed:</b>	<b>Position:</b>
<b>Telephone:</b>	<b>E-mail:</b>

<b>Invoice address:</b>

**Please complete the form return to:**

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Tel: 0141 287 6530

Fax: 0141 287 8101

We would like to contact delegates attending this event in future for further events we do. If you DO NOT want your name added to our mailing list please tick here: