Mining Institute of Scotland

The Next Generation

Alex Crossland
Agenda

Who am I?
Why am I here?
Global Context
UK Context
Looking to the future
Who am I?

- Undergraduate Degree from University of Nottingham
  - Environmental Engineering
- Masters from Heriot-Watt University
  - Petroleum Engineering
- First job as a Wireline Logging Field Engineer
The Mining Institute of Scotland
Founded 1878

‘To enable its members... to meet... to discuss the means for the ventilation of coal and other mines, the winning and working of collieries and mines, the prevention of accidents and the advancement of the science of mining generally’
Global Context

Global Energy Consumption

*BP Energy Outlook 2030*
Global Context

Global Energy Consumption by Sector

- Other
- Industry
- Power
- Transport

*BP Energy Outlook 2030*
UK Context

UK Energy Consumption

MTOE


Electricity
Bioenergy
Gas
Petroleum
Solid Fuel

*BP Energy Outlook 2030
UK Context

UK Wells Drilled

- Exploration
- Appraisal
- Development

*DECC*
UK Context

North American Oil and Gas Production

*BP Energy Outlook 2030*
UK Context

![Renewable Energy Graph]

- Waste
- Transport Biofuels
- Heat Pumps
- Deep Geothermal
- Bioenergy
- Hydro
- Wave & Tidal
- Wind - Offshore
- Wind - Onshore

**DUKES 2013**
Looking to the future

Figure 10: Total Versus Core Personnel who Travelled Offshore from 2006 to 2012

*OGUK*
Looking to the future

*OGUK*
Looking to the future

Figure 25: The Age Profile of the Offshore Workforce from 2010 to 2012

*OGUK*
Corroded Tubing
Parted Tubing
13 November 2013 - Offshore Structures Life Extension Programme
Speaker: Andy Duncan, HSE

11 December 2013 - Renewable Energy in Scotland
Speaker: Iain Todd, Aberdeen Renewable Energy Group

8 January 2014 - Shale Gas
Speaker: Mike Richards, Aberdeen Drilling Management

12 February 2014 - The geology and history of surface mining in East Ayrshire
Speaker: John Crone, Geologist

5 March 2014 - Young Persons’ Lecture Competition

11 March 2014 - Scotland’s Oil? How might an independent Scotland maximise its oil and gas revenues?
Speaker: Derek Leith, Ernst & Young and Judith Aldersley-Williams, CMS Cameron McKenna LLP