

Responsible Science
An introduction to the seminar series

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The purpose of this seminar series

- To promote responsible science
- To encourage thinking in relation to the implications of scientific and technological developments
- To enable scientists to communicate their work to people outside of their field

Expected outcomes

Participants will

- have a greater awareness of the potential misuse of scientific work
- be better science communicators
- be better able to interact with national and international control arrangements
- have benefited from networking

Responsible science – many definitions

Responsible science core elements:

- research integrity – honesty, no plagiarism, no false use of data
- understanding potential negative impacts of scientific activities and identifying ways to reduce these

It is the second of these that we shall focus on

CBRN – framing the problem

- Chemical – toxic substances
- Biological – deliberate disease
- Radiological – radioactive material
- Nuclear – atomic bombs

The challenge of multiple uses

- Most materials and technologies for CBRN have peaceful as well as hostile purposes
 - Thiodiglycol – jeans, ballpoint pens
 - Fermenters – pharmaceuticals
 - Enrichment – nuclear power
- Toxic industrial chemicals used as weapons
 - e.g., chlorine tankers breached
- Impossible to ban multiple-use materials and technologies as this would have serious consequences

Seminar programme

Today:

- Science in context
- Personal responsibility
- Breakout rooms

Seminar programme

8 June:

- Self-governing science
- Science communication
- Case study - Neurosciences
- Breakout rooms

Seminar programme

22 June:

- Codes of conduct
- Layers of codes
- Case study - personal choices
- Breakout rooms

Seminar programme

29 June:

- Students and the policy world
- Breakout rooms focused on asking questions
- Speakers panel
- Conclusions

Questions?
