

# Science, Industry and Big Data

The Royal Society and BT seminar

**Tuesday 8 April 2014, 9am – 5pm**

**BT Centre, 81 Newgate St, London EC1A 7AJ**

THE  
ROYAL  
SOCIETY



# Science, Industry and Big Data

Industrial and academic professionals who have a strong interest in Big Data will come together to highlight the international and interdisciplinary challenges of Big Data and to discuss how the interaction between the Big Data community in industry and those working on Big Data in science (e.g. in Astronomy, Particle Physics, and the Life sciences) can be enhanced.

## **Key discussion points**

- Increasing interdisciplinary engagement within Big Data – i.e. linking more core science research to computer science in the area.
- Industrial engagement with UK academia – addressing whether the current links between industry and academia are sufficient or can be improved.
- Role of the Royal Society in catalysing industry and academic interaction in this domain.

# Programme

- 9am – 9.30am **Registration, refreshments and networking**
- 9.30am – 9.35am **Welcome by BT**  
Chris Bilton, Research Director, BT Labs
- 9.35am – 10am **Keynote**  
Sir Mark Walport, UK Government Chief Scientific Advisor
- 10am – 11am **Session 1: International and interdisciplinary dimension – challenges for Science and Industry**  
Chaired by Dr Robert Ghanea-Hercock, Chief Researcher BT
- **Social networks and Big Data**  
Dr Simon Thompson, Chief Researcher BT
  - **Big Data in Bioinformatics**  
Dr Mario Caccamo, Director at TGAC
  - **Big Data at CERN**  
Dr Robert Jones, Head of CERN openlab
- 11am – 11.30am **Coffee break**
- **Risk and finance with Big Data**  
Professor Michael Mainelli, Z/Yen Group Ltd
  - **Big Data and Astronomy**  
Dr Chris Lintott, Astronomer and co-founder of Galaxy Zoo
- 12.30pm – 2pm **Lunch and networking**

2pm – 3.30pm

**Session 2: Science-Industry collaboration**

Chaired by Dr Simon Campbell CBE FRS FMedSci

- **Cyber security and data analytics**  
Dr Robert Ghanea-Hercock, Chief Researcher BT
- **Big Data in Engineering**  
Paul Stein, Chief Scientific Officer, Rolls-Royce
- **Big Data and IBM Research**  
Dr Eleni Pratsini, Lab Director at IBM Research Ireland
- **Big Data in Pharma**  
Dr Alex Gutteridge, Principal Scientist, Pfizer Neusentis

3.30pm – 3.45pm

**Summary and concluding remarks**

Professor John McCanny, Director of ECIT,  
Queen's University Belfast

3.45pm – 4pm

**Comfort break**

4pm – 5pm

**Research demos/Tour of BT showcase facilities**

# Venue and registration

## Venue

This event is being held at the BT Centre in London, opposite St Pauls tube station:

BT Centre,  
81 Newgate Street,  
London EC1A 7AJ

## Registration

**Pre-registration for this event is essential.** For further information or to register, contact Stephanie Uther at [industry@royalsociety.org](mailto:industry@royalsociety.org)



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