The Ogden Trust
making physics matter

Barbara Grundy
Consultant

www.ogdentrust.com
Introduction to the Ogden Trust

- Sir Peter Ogden – established 1998
- Charitable Trust to promote the teaching and learning of physics
Ogden Trust objectives

- To encourage and promote the teaching and learning of physics through the sponsorship of:
  - talented students studying physics at sixth form and undergraduate level
  - undergraduate and postgraduate students who wish to become physics teachers
  - programmes and projects supporting physical science teaching in primary and secondary schools
Ogden Trust activities

- Scholarships for 16+, undergraduates, PGCE
- Ogden Science Partnerships - 60+
- Primary Science Partnerships – Phiz Labs
- Girls into Physics
- Extreme Physics
- 6th Form Physics Symposium and Physics residentials
Ogden Trust initiatives

- CERN trips
- Ogden Teacher Fellowships (OTF)
- Alumni support
- Teach Physics and Alumni Internships

- One-off grants for physics-related projects - enrichment and participation
- Durham University – Ogden Centre for Fundamental Physics
SPOTY
School Physicist of the Year Awards
Ogden Science Officers

- 20 O.S.O.s mainly in universities
- Integrated fully into Physics Dept
- Commitment and support from HOD and senior staff in dept
- Generic role description
- Work with academics to develop innovative and appropriate activities - disseminate research
What do OSOs do?

- Local outreach to local schools - recruitment?
- Fun physics roadshows and events
- 6\textsuperscript{th} form masterclasses and residential
- Working with Ogden Partnerships – occasionally as coordinator
- Careers development, presentations and fairs
What do OSOs do?

• Work with student ambassadors by recruiting, training and supporting teams
• Identify potential PhD Scientists in Schools
• Links with STEM ambassadors, IoP, range of other external science organisations
Key OSO objectives
for coming year – reported by OSOs

• Plan Stargazing Live Day to coincide with Solar Eclipse
• Produce 2 updated Dept posters
• Meet with at least one academic per research strand – outreach, public engagement
• Organise 4 GCSE workshops in schools
• Develop package of outreach for KS 2-5, one of which should be Medical Physics
• Complete careers videos and compile 2 min advert/preview
• Develop 2 new workshops: Light (inc Spectroscopy) and Telescopes (P7 on GCSE)
Key OSO objectives
for coming year – reported by OSOs

• Work with engineering to put on joint Physics/Engineering events
• Develop resources for teachers around physics careers and current university physics research
• Events aimed specifically at encouraging girls into A level and undergrad physics
• New long-term Climate Physics Workshops for Yr 10/11 with Ogden partnership
• Interactive workshop Primary School Day
• Physics Poster Competition – linked to IYL
Key OSO objectives
for coming year – reported by OSOs

- Mentoring scheme for girls doing A-level physics
- Organise and participate in Zooniverse podcast – raising awareness of Galaxy Zoo
- Develop content and delivery methods of SETI Cipher Challenge
- To plan and organise competition and trip to Grenoble for AS level females
- Work with more non-specialist teachers to improve their knowledge, understanding and practice
- To further develop the Christmas Lectures programme
Support for OSOs

- OSO conferences twice a year
- Support network in place
- Liaison with and supporting the team
- Regular ‘light-touch’ reviews
- Produce end of year report with data on all events/activities
- Development of role/activities year on year
Evaluation of OSO activity

• Evaluation of their work and how to measure impact
  – More physics GCSE students
  – More A level students
  – More students on to undergraduate physics and physics-related degrees

• Questionnaires – pupils and teachers
• Longer term tracking linked to feedback after events
New OSO posts

• More OSO posts pending

• Universities need to demonstrate the need to build on established outreach programme

• Universities must provide matched funding

• Posts initially for one year and then further two years
Thankyou