



Status of PP2020 Review

Mark Lancaster

PP2020 Membership

Phil Allport	- Liverpool [KE group]	Tim Gershon	- Warwick
Alan Barr	- Oxford	Mark Lancaster	- UCL
Iain Bertram	- Lancaster	Chris Parkes	- Glasgow
Grahame Blair	- RHUL	Silvia Pascoli	- IPPP
Cinzia DaVia	- Manchester	Nigel Smith	- RAL*
Gavin Davies	- Imperial	David Tong	- Cambridge

KE Group

Phil Allport	Detector Development (Liverpool)
Barbara Camanzi	Cancer Therapy (RAL PPD)
Mike Poole	Director ASTeC (Accelerator Science) STFC
Tim Short	Ex-Particle Physicist (Finance)
Marcus French	Head of RAL Microelectronics STFC
Jason McFall	Ex-Particle Physicist (Computing)
Val O'Shea	Detector Development (Glasgow)
Steve Lloyd	e-Science (QMUL)
Stephen Watts	Detector Development (Manchester)

PP2020 Plan

- short (2 sided - 4 page pullout) glossy document stressing PP benefits that the government cares out + science questions that inspire students (and us) to do physics in the first place.
 - at least 50% KE [backed by stats, brief case studies]
- longer document with many more KE examples, case studies, statistics and science / facilities more fully described.
- style to be homogenised and graphically designed with Nina Hall (with support from IoP)
- original timescale was to publicise with LHC start-up.

PP2020 Status

- both panels have had 2 meetings
 - KE material ~75% complete in draft form (see Phil's talk)
 - science / facilities (a la Quantum Universe) end next week
- propose to continue on 2 fronts
 - work at accelerated rate on the two high quality documents
 - take existing material and stats and prepare in next week a 1 page briefing document that we can all use to make individual petitions to MPs, DIUS, ...

Briefing Material

Not to include science but press home the case that we do in fact hit the right buttons that government cares about

1. Contribution to global issues

- Health [cancer treatment, imaging, ...]
 - Security [scanners]
 - Environment [nuclear waste transmutation]
- {Already assembled many examples in these areas}

2. Increasing the number of graduate physicists

- Students do physics not because they are interested in applications but because of PP / Astro.
{PP2020 survey of ~1000 1st years underway now}
- Requires physics departments to be financially secure
{PP2020 survey of PP contribution to departmental finances underway now }

3. Benefits to UK industry / GDP / High Tech/Finance Skill-base

- Contracts to UK that provide income & enhance companies capabilities / competitiveness {have letters but figures would be useful}
- In-demand supply particularly at PhD level into IT/finance {have quotes}

4. Cross disciplinarity

- we have/will develop(ed) the next generation technology used in life sciences/medical research : accelerators, sensors, micro-electronics, high-speed readout/triggering, e-Science (Grid)
- STFC provides the facilities and the know-how and STFC cuts would necessarily have a wider impact.

Briefing Material

We already have a lot of material to back this up

- many examples of benefits of PP research in other applications
- letters from companies
- quotes from non-PP scientists
- surveys about to be completed

We can in the short-term knock this into a form that will be useful for lobbying and make it available

In the longer term we'll proceed with the glossy (short + long) documents

STFC are helping with stats but ultimately we need to be making the case and PP2020 is striving to provide the ammunition for this.