

Vision for Daresbury Laboratory

Notes of meeting on 5th July at Daresbury Laboratory

Present:

P. Weightman (Chairman), D. Norman, M. Poole, J. West, W. Flavell, E. Seddon, E. Towns-Andrews, P. Butler, D. Hastings, J. Zweit, R. Carter, A. Russell, J. Shaw, T. Greenshaw, P. Williams, S. Williams, J. Durell, N. Roberts, R. Lewis, D. Warner, D. Chadwick

Summary:

P. Weightman summarised the meetings that had taken place recently. These included the Halton Borough Council promotion event at Widnes and the discussion meetings with the nuclear physics, 4GLS and medical imaging communities. A number of issues had arisen from these meetings which formed the basis of discussion for this meeting, specifically:

1. The recent uncertainty which had arisen regarding the involvement of Manchester Medical School in the medical imaging part of the proposal.
2. The need for clarity as to the exact requirements of the nuclear physics community.
3. The way forward with the proposal and who was to collate and produce the final document.
4. Industrial support for the proposal and inclusion of the NWRDA.

The above issues were discussed at length and a number of key decisions and actions arose from the meeting:

Decisions:

1. The nuclear physics community had established that a 200MeV cyclotron was needed to initiate the radioactive beams facility. This would cost approximately £15M and would also satisfy the needs of the Clatterbridge medical community. The full proposal, based on the Sirius scientific case, would cost in the region of £55M. This included Clatterbridge transfer costs, but did not include nuclear physics beamline equipment on the facility. It was decided that £15M for the cyclotron was too large to submit to the Smith Committee, but funds were required for a 3 month design study which would facilitate rapid spend of the Byers funds once available.
2. The estimated total cost of 4GLS was ~£70M with the IR-FEL facility costing £6-8M. The IR-FEL project would be bid for via the Smith Committee, as would a design study for the 4GLS facility and its interaction with SuperSRS and the exotic ion beam facility. The IR-FEL is a two-linac device and in the first instance, incorporated 4 user end-stations. It would be upgraded as more funding became available.

3. It was estimated that the total cost for the two, 3-month design studies would be approximately ~£250K, but this would be confirmed.
4. R. Carter would continue to collate letters of support from industry where possible. Marconi and Elekta wished to see the proposal before formally supporting the bid. DESY and CERN were also prepared to provide letters in support of the accelerator physics element of the proposal.
5. D. Norman would coordinate the RDA element of the bid.
6. Tim Greenshaw agreed to act as the website editor. The address for the site is:

<http://hep.ph.liv.ac.uk/~green/accel>
7. In future, no paper documents were to be circulated and all documents and updates stored electronically. All participants would be e-mailed when items had been put on the website.
8. There were to be no more face-to-face meetings and P. Weightman and D. Norman would communicate with relevant people when necessary.

Actions:

- J. Durell and D. Warner to provide a 3-page case for support including costings for all beamline equipment and the design study. Required by Friday 7th July.
- R. Lewis and others to meet D. Gordon of Manchester Medical School to clarify their involvement in the bid. A decision was required by Friday afternoon and a case for support to be provided to P. Weightman no later than Monday 10th July.
- J. West, E. Seddon and M. Poole to estimate cost for 4GLS design study.
- E. Towns-Andrews to supply contact details of K. Carr (Avecia) to R. Carter.
- P. Weightman and D. Norman to produce first draft document by 10th July for inclusion on the website. **All comments on first draft to be submitted to P. Weightman by 17th July.**