

Organizing the Global Experimental Program

Worldwide Study Organizing Committee

Victoria LC workshop, July 30, 2004

In Feb 2004, ILCSC&ICFA asked WWS to propose, in parallel with GDI for the LC machine, a mechanism which will:

- 1. Ensure that at least two different detector concepts are developed; by worldwide teams which will:**
 - A) Prepare CDR(s) on concepts, by ~2006;**
 - B) The cores of the collaborations should have formed when funding is in place and bids are called for**
- 2. Encourage and coordinate inter-regional R&D on essential detector technologies, and give peer-reviewed recognition to nationally funded R&D programmes as part of the worldwide project.**
- 3. Make sure that vital questions of machine-detector interface and beamline instrumentation are as fully supported as accelerator and detector R&D. This will involve close links with the GDI.**

WWS OC proposes the timeline below

(2004) ITRP tech.
recommendation

Set up 3 panels (costing, detector
R&D, and MDI)

(2005) Accelerator CDR

Single preliminary-costing paper for
>1 whole detector concepts

(2007) Accelerator TDR

WWS receives CDR's from each
detector concept team (expect
some individuals to sign multiple
CDRs)

(2008) LC site selection

Collaborations form and submit
LOIs for proposal to the global lab
(or GDO?)

Site selection + 1yr

Global lab selects experiments.

Panels to be created by WWS

- **Costing panel** : Request inputs from the teams studying each detector concept, ensure the same costing basis, and edit into a single document to be included with the accelerator CDR. Then the panel will stand down.
- **Detector R&D review panel** : Maintain a register of relevant R&D, identify vital or missing activities, arrange for peer review of proposals, and endorse approved programs to funding agencies when requested. This panel will stand down when the detector proposals are finalized.
- **MDI panel** : Liaise with GDI to coordinate MDI issues between accelerator and experimental teams, and ensure that essential MDI R&D is done. The panel will stand down when the global lab takes over its role.
- **More to be appointed as needed.**

Some Background

- The draft distributed earlier suggested a GEC (Global Experimental Commission), which had a small (~6) number of members, oversaw the costing document and detector R&D, and received the detector LOIs, among other tasks.
- We now consider that such body would have a confusing boundary with WWS and would weaken WWS, which is a bottom-up representative of all physicists interested in LC.
- WWS OC can appoint panels that perform the necessary tasks, and it can retain oversight.
- At this time, we do not know which body will receive detector LOIs.

Roles of WWS - proposal

- Recognize and coordinate studies on whole detector concepts, and work toward interregional detector TDRs.
- Interface with GDI, especially on MDI issues.
- Keep a register of R&D relevant to LC experimental programs, identify those that are vital or missing, and ensure peer review of R&D proposals.
- Organize interregional meetings and workshops.
- Report to ILCSC and ICFA on the matters above.