ALCPG

Feb. 20, 2003

*Linear Collider Affairs on the International Scene*

- Strong R&D efforts continue in Europe, Japan and US
- Technical Review Committee of ICFA (Greg Loew Committee) report will be available soon- http://www.slac.stanford.edu/xorg/ilc-trc/2002/2002/2002_report.htm
- R&D goals for both warm and cold technology set forth therein – to be accomplished in ~ 1 yr.
- ICFA set up an International Linear Collider Steering Committee ILCSC in 2002 to coordinate work and promote LC – see ICFA web page link to LC to find charter and membership (see org chart next page)
- 3rd meeting Feb. 13 at Tsukuba – herewith is a brief report of the meeting


U.S. Steering Group
Asian Steering Group
European Steering Group
Govt. Agencies
Govt. Agencies
Govt. Agencies
International Steering / Oversight Group
Steers towards
International Organization / Laboratory Charged with Constructing LC
Global Goal

Third Meeting of ILCSC, Feb. 13, 2003

Report to ALCPG Feb. 2003

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*AGENDA*

1. Reports from Regional LCSC's on activities since our last meeting ( including activities of subcommittees to study organizational vehicles for the LC project)
   - ALCSC (WNK) (20)
   - ELCSC (BF) (20)
   - USLCSC (JD) (20)
2. Report on the ACFA Roadmap (HS) (20)
3. Report on the "Consensus Document" nee ("Scoping Document") of the World Wide Study group (DJM/PG) (20)
   (see http://sbhep1.physics.sunysb.edu/~grannis/wwlc_report.html for latest version)
4. Schedule for completion of the WW Consensus Document (DJM/PG – All) (5)
5. a)Need for test beams (DJM) (10)

b) LHC/LC Study Group DJM (10)

6. Nomination of 2 persons from each region to draft a scoping/parameters document for the ILCSC specific enough to base cost estimates upon (Regional Chairs) (10)
7. Establishment of that document's writing committee, charge and schedule[a] (MT/ All) (20)
8. Progress in "communications" activities (N.Calder - guest) (15)
9. Formation of an Accelerator Sub-Committee for the SC[b] (MT/ All) (30)

10. Suggested plan for working together globally on some problems common to warm and cold technology[b] (MT/All) (30)
11. Idea for forming a "Design Center" (HS) (30)
12. Time schedule for presentation to ILCSC of regional SC (and other) suggestions for overall organization and management of the Global LC project[c] (MT/All) (20)
13. Plan for technology Recommendation process[d] (MT/All) (60)
14. Creation of Criteria for basing Recommendation[e] (MT/All) (30)

15. Set next meeting time (MT/All)(10)

More detailed report will appear on the ICFA Web site in due course

Notes

1. *Regional SC Reports*

   Asia: Three subcommittees formed, Accelerator, Physics and Detector, International Partnering. Major work so far was organizing the ACFA Symposium on JLC of Feb. 12. Next assignment – recommend possible new names for JLC which are more appropriate for its true global nature

   Europe: 2 meetings since last ILCSC, reviewing European scope document (principal parameters of LC) to be finalized in April, Outreach will be dealt with on a national basis, Accelerator Subcommittee working to identify areas of possible international collaborative effort that span both warm and cold technologies, Organizational Subcommittee will present a report on possible ways of organizing the ILC construction and operation-oral in June with written in Nov., beginning to

discuss the appropriate role of CERN in the LC area with appropriate officials and bodies, reported that ECFA will propose to EU FP6 work on accelerator R&D with high gradient SC cavity work relevant to LC among other things, reviewed German decision i.e. that the government will support half the cost of the XFEL as a European project and will not support, today, the DESY site for the LC but rather will wait for the deliberations of the international community, making it clear however that DESY should continue its R/D program so as to remain a strong participant in the world LC program, noted that governments are now beginning to take notice and moves are afoot to form a group of interested funding agencies on an international basis.

US: Physics and Detector Subcommittee in late stages of drafting a scope and parameters document reflecting the ideas of the US HEP community – hope to have it approved already this month, Accelerator Subcommittee launched a parallel study of warm and cold technology machines conforming to that

parameters document and using two example sites – parallel cost estimates will be a major part of this effort, International Partnering Subcommittee studying the founding documents for CERN, ESRF, ITER, ALMA…. In search of models that meet the needs of an ILC organization – hope to work on same timescale as ELCSC so that ILCSC can begin serious discussions at 4th meeting in August, USLCSC reported that OSTP, NSF, DoE are now showing more interest in LC than before and are following the efforts to make an international group of agency people with interest – very positive.

2. Received a brief review of ACFA roadmap for Global LC, hosted in Japan, to be taking high luminosity data by 2015 – http://lcdev.kek.jp/RMdraft

3. Received report on "Consensus Document" a vehicle for HE physicists defining the case for the LC in language comprehensible to scientists in allied disciplines – succinctly stated and without specialized jargon but not wholly over

simplified. Final draft found at http://sbhep1.physics.sunysb.edu/~grannis/wwlc_report.html

4. Will be complete very soon (complete as of Feb. 17)

5. a)WW Study is putting together the requirements for test beams for LC detector R&D as well as a catalog of the beams that may be available. b) Received report on grass roots LHC/LC Study Group, (Georg Weiglein, Frank Paige, Rohini Godbole) putting together a detailed case for the interplay of these two in getting out the physics we need – ILCSC will send a letter of support for this important work.

6. Regional SC's submitted names of two physicists each for a Parameters and Scoping subcommittee to ILCSC specific enough that the 500 GeV phase of the LC can be designed and costed and that possible options for an upgrade path are well enough defined for costing as well.

7. MT will work with designated Parameters committee members (S. Komamiya, N. Toge, R. Heuer, F. Richard, P. Grannis and M. Oreglia) to choose a chair and recommend a charge for themselves on a 2 month time scale and be prepared to make a progress report at the August ILCSC mtg.

8. Communications activities in the US were reported and the communications committee recently formed – including professional lobbyists – was described as well as the strategy of promoting all science first, then physical science, then HEP, then projects in that order. Need to develop simple answers to frequently asked questions was underlined. A web site with collections of these and other important information is being created.

9. Directors and MT will recruit an Accelerator Subcommittee from a list developed at the 2nd and 3rd meetings of the ILCSC. They will give technical advice regarding accelerator work to be done, help coordinate that work and help, along with other subcommittees to develop

criteria for technology selection. First task is to develop a list of collaborative LC work that spans both technologies for the ILCSC to prioritize and initiate as resources permit.

10. First task of this group is to develop a list of collaborative LC work that spans both warm and cold technologies for the ILCSC to prioritize and initiate as resources permit.

11. All agreed that in principle it would be highly desirable to form a precursor to the Global Linear Collider Center, a pre- GLCC in Sugawara's terms. They would be the core group to begin, among other things, making an international design based on accumulated work to date but reexamined in a completely international context. It would also be desirable to have the technology recommendation made before they start work but not to wait to start creating this group until the recommendation but to develop them in parallel. Our action item in preparing for the August meeting will be to explore how such a group could be authorized and formed

12. As mentioned above we hope to begin discussion of the form our Global organization for creating and operating the ILC might take at our August meeting, pooling the ideas put forward for TESLA, JLC and the regional SC's.

13. As a working model we will adopt the idea of making a technology recommendation by gathering a committee of wise persons, using criteria to be developed by the ILCSC and expanding upon them as in their wisdom they see fit, together with hearings of the proponents and such technical experts as they may call to recommend a technology choice to the ILCSC. The regional steering committees will each nominate 4 persons from which the ILCSC will choose three from each list for a total of 9 wise persons. We hope to have a first discussion of the make-up of the committee in August. Advice in this will be widely sought from the community.

14. The Accelerator sub-committee, the Physics and Detector Subcommittee together with the Parameters committee will be asked to submit suggested criteria for the technology recommendation to be melded and boiled down by MT and submitted to the ILCSC for consideration and decision.