

# GDE R&D Board

## Minutes of Meeting #49, 30 March 2007

Participants: Andy, Barry, Bill, Chris, Eckhard, Hitoshi, Marc, Lutz, Olivier, Tom and G Dugan and M Harrison.

### Agenda MAC Meeting April: all

The updated agenda of the MAC meeting has been posted at

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=1388>

Comments to the talks were discussed and are available from the excel sheet available from the indico web-page of the RDB meeting.

### FP7 Proposal announcement: Eckhard

Eckhard informed the RDB that a proposal is being prepared for the EC to support the realization of the ILC on the "political" level and the purchase and treatment of 30 TESLA style cavities for high-gradient. Couplers and tuners will be supplied by France and Italy. The total volume is 8 MEUR support with some 50% to support the technical work.

The proposal will be made available to the RDB for discussion at the next meeting.

### S3: Andy

Andy had distributed the proposal and the S3 plans. It makes a strong case in support of e-cloud and fast ion programs and emphasizes the importance of the ultra-low emittance of CsrTA. The actual funding requirements are not part of the document and will be made available during the next days.

Gerry and Mike try to give a very rough estimates of what is involved: CESR operation runs at \$10M per year. An additional \$0.5M are required to complete the 2008 physics program. Even though NSF funding is largely secured for 2008 funds have to be set aside for decommissioning of CESR if the program were to be discontinued. One may speculate that with \$5M and \$0M from NSF in 2009 and 2010 respectively the load on DOE would be \$5M and \$10M in the corresponding years. A sharing between HEP and synchrotron community needs to be further explored. What are the chances of an increased budget given the unique opportunity?

Without additional funds and because of the time profile there may be an impact of \$5M for the S0 and \$10M for the S1 program - for S0 this translates into a delay for the decision. Barry emphasizes that such delay would impact the overall schedule since the ILC should not use technology that is outdated before completion of construction.

Looking for alternative test facilities Andy explains that DAPHNE would not be able to address the e-cloud in the same rigor while KEKB could provide ultra-low emittance beams. It was decided to explore the options at KEKB further and particularly to understand the availability of the collider for such programs. Andy and Hitoshi will seek further information from K Oide.

With this feedback the S3 topic will be back on the agenda on April 13.

**S0/S1: Lutz**

The S0/S1 task force will meet at DESY at the beginning of the week to finalize the R&D plans.

**S2: Tom**

Tom comments that the overall cost of the program is not clear since it is not always clear which parts of the national programs to include and which not.

**S4: Marc**

One critical item is the design of the SC quads. It is hoped that by end April the UK funding situation may be known.

**R&D board meeting during LCWS:**

The RDB will meet Sunday, June 3, 8:30 CEST.

**Organisational matters:**

Next Meeting Apr 6, 2007, 13:00 UTC.

E Elsen