

# CFS & Global Systems Webex Meeting

## 5 November, 2008

### Agenda

PM Report (M Ross)  
CFS (V. Kuchler, J Osborne, A Enomoto)  
LLRF: FLASH 9mA study (J. Carwardine)

### Attendees

E. Paterson, J. Osborne, V. Kuchler, P. Garbincius, J. Carwardine, E. Elsen, M. Ross, T. Himel, T. Shudara, N. Toge, A. Enomoto

### Meeting Summary

#### PM Report (Marc)

ILC08:

- The opening plenary session will include summaries from accelerator and detector, Project Managers, XFEL, Project X, and the CLIC-ILC collaboration.
- Closing plenary will include summary reports from all the parallel sessions
- Marc asked that the conveners of the parallel sessions put their session agendas into Indico.

PAC Review

- A report is due soon. Presentations are posted on the ilcagenda server.
- There was a generally positive response from the review committee, especially regarding
  - Plug compatibility
  - The importance of developing an ILC Project Implementation Plan.
- The Minimum Machine program was well received but that more substantial cost reductions should be pursued. There was also a strong statement that the physics performance should be maintained.
- The committee looks forward to seeing a schedule for meeting the S2 goals.

PM Visit to India

- Marc and Akira visited BARC after the Tesla Technology Collaboration meeting in Delhi.
- BARC is just getting started with accelerator technology, but there is a strong interest in scientific and technology exchange programs.

Positron Workshop at Daresbury

- There were 25 attendees at the workshop and others joined via Webex.
- There was an excellent summary presentation that will be posted on the workshop website.

#### EDMS

- Lars Hagge hosted an excellent session at the Positron Workshop
- EDMS is now well integrated into the day-to-day business of XFEL.
- Marc wants all CFS drawings and 3D cad models developed for ILC to be uploaded into EDMS.

#### Collaboration with JINR Dubna

- Marc is very positive about progress with the collaboration.
- Core drilling is ongoing, and results are due to be presented at ILC08.
- Vic has received a spreadsheet of information about the core drilling, but it requires some interpretation.
- Marc and Brian Foster have been invited to give a presentation at the Russian Academy meeting on Nuclear Physics in December.

#### AAP Review

- The review will be largely technical, and will concentrate on TD Phase-I
- Will be hosted by KEK in Skuba at the TIL08 meeting
- Key efforts preparing for the review rest with the Technical Area Group Leaders
- A coarse schedule has been developed and posted.

#### CFS (Vic, John O)

##### Report from the CLIC Workshop

- The ILC CFS team participated in the "Technical Issues" working group. Topics covered included:
  - Module Layout and Support
  - Magnet Stabilization and Test Stands
  - Tunnel layout and Cross Section
  - Tunnel Cooling and Ventilation
  - Safety Issues for Underground Structures
- There was also discussion on the topic of a possible common CLIC/ILC Note on Tunnel Safety.

##### Planning for ILC08

- The CFS working session agendas have been finalized. There will be sessions on:
  - Process Cooling Water
  - Klystron Cluster Design (common session with HLRF)
  - ILC Collaborative efforts
  - Minimum Machine Design (common session with AS groups)
  - Alternative site and tunnel configurations

##### Update on Dubna/GSPI

- There has been little direct contact with the JINR representatives.

- The schedule of work is unknown to the CFS group, but a status report is expected at ILC08.
- The Dubna site cost estimate still needs work and needs to be supported by cost estimate backup materials.

#### **LLRF (John C)**

##### TTF/FLASH 9mA studies

- DESY/FLASH personnel have been exploring options for repairing the vacuum leak in the beam dump line. Meanwhile, beam operation at FLASH is limited to ~30nC/pulse which severely restricts the 9mA program.
- Improvements in beam diagnostics and machine protection will be pre-requisites for running future high power 9mA studies.
- The best-case scenario is that the leak would be repaired in the April/May 2009 timeframe, but this would require scheduling a special shutdown of around 3 weeks. FLASH will now shut down in September 2009 for a major upgrade (postponed at Users' requests from May 2009).
- Studies requests have been submitted for 9mA-related studies during the January 2009 machine studies period for low-power tests involving LLRF and machine characterization.

#### **Cost Management (Peter)**

- Triad has begun work on scoping out the Cost Management Tool.
- Peter has held several meetings with Triad, that have included participation from Tom Himel, Lars Hagge, and John Carwardine.

*The next CFS & Global Systems meeting will be held on December 3<sup>rd</sup>.*

*John Carwardine*