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*** CALORIMETER (N. Johnson)

CAL Management (Johnson, Acker)

Created and distributed calorimeter action item list.

Continued work on WBS, WBS dictionary, and schedule in support of understanding of the work ahead and PMCS deliveries.

Continued work on development of the CAL Implementation Plan. A draft version was discussed in Paris last week.

CAL CsI Crystal Elements

Received quote from Hamamatsu for EM photodiodes. The NRE was quoted at greater than a factor of 2 over that for the BTEM diodes and our expectations. We are trying to communicate with Hamamatsu Japan to understand the cause. Procurement plans are in the toilet unless this NRE is reduced or partially recovered over the flight part build. Hamamatsu is willing to negotiate as long as appropriate assurances are provided. (Phlips)

CsI Crystal Test Stations: (Phlips, Grove)

Test station assembly has begun. Motioning system is in place and under control of Labview. LabView Acquisition and control software well under way. Negotiating with Leif Nilsson for testing and training in April.

Work on CsI specification continued by mail and telecon. New specifications must be given to the provider. (Polytechnique/NRL, Sweden)
CsI Drawing provided by oscar.

Bonding

Claude Chapron is the ingenior (CDF) in charge of the bonding. After a joint meeting CDF Polytechnique, specification draft sent to CETIM bonding experts to prepare the meeting next week devoted to bonding specification study (Gilles, Claude) Test plan will be develop after this meeting. Thermal cycling on CsI glued to glass and 25 x 25 mm diode continued. Cycling/shock to 80°C perfomed without degradation on some samples.

3M material

sample of 3M material sent to NRL for testing purpose.

GSE

Work on specification for PEM test bench started (Alain Gilles)

Pin bonding test:

Test on Mapsil + primer :encouraging results : two tests succeed cold, hot and vacuum tests.

Start of the preparation of radiation + transparency measurements (S. Herve& D. Gauthereau).

Appointment next week with CETIM (Y. Acker).

Crystal Performance testing bench :

Measurements (5) and data reduction (3) for the 3M wrapping. Start of the upgrading of the hodoscope (P. Bourgois, Y. Piret).

FW Weekly Report for the week ending Mar. 8 2001.txt
CAL Pre Electronics Module (Bogaert)

Design of tooling for EM PEM in progress at Polytechnique.

Pem Specification writing in progress (oscar)

Finalize PEM and crystal dim. Work started during the Interim review
continue by teleconf (Oscar , NRL)

CAL Analog Front End Electronics (Ampe)

Prototype layouts of AFEE PCB have begun to investigate placement and routing
problems associated with mounting holes, PIN access holes and other positioning
constraints on the PCB. Modularity of the digital control will likely be determined
by real estate - ie. part size.

CAL Balloon Flight (Johnson)

Show me the power!

CAL Software/Design Verification (Grove, Chekhtman)

Requirements: Grove submitted CAL Sim, Digi, and Recon high-level requirements text
to T. Burnett. Requirements for State Verification and Calibration in are progress.

CalRecon: Chekhtman completed the port of tb_recon to Gaudi. More comparison with
tb_recon results is needed.

Geometry: The flight CAL geometry was slightly modified at last week's meeting in
Paris. NRL reviewed the carbon-cell geometry file, and other than some minor
numerical modifications to accommodate the changes in the design, it is ready to
distribute. The G4 balloon flight geometry also had some slight discrepancies with
the BFEM CAL, so Grove sent comments to the G4 group.

G4 verification: The G4 proton results presented last week sure look wrong. Plots
show protons depositing ~100 MeV in a layer (but one MIP in 2.3 cm of CsI is about
13 MeV). Plots show too many logs hit per layer. Plots from runs at 180 deg (i.e.
rear entry) apparently show protons slowing down in the CAL, but the range of >10
GeV proton in CsI is many thousands of g/cm².

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