

Minutes of the E-907 Video Conference Tuesday 19-Dec-00, 15:00-16:30, FNAL standard time

Present:-

University of Colorado- Jerry Peterson, Dale Prull ,Gertjan Hofman

Fermilab -Jorge Morfin, Rajendran Raja, Margaret Votava

Lawrence Livermore- Ed Hartouni, Peter Barnes, Ron Soltz (Please fill in the rest)

By Telephone - Brian Cole (Columbia)

1)TPC Clean room status- R.Raja reviewed the information provided by Leon Beverly. Complete the clean room in Meson area by end of January. How many HEPA units ? With a 10' high ceiling, Leon estimates 4 units will give clean air of quality 10,000 particles per unit volume. TPC will have temperature control- Air conditioning and heating. Humidity will be controlled.

The lifting fixture for the TPC is being evaluated by FNAL. They are in touch with Peter Barnes.

2)TPC Move plans- The immediate goal is to make a list and put on the web of the TPC parts and what if any are missing.

(The TPC group- Soltz, Barnes, Cole et al will do this)

R.Raja will get a room for the 3 Sun Workstations that house the old DAQ and will try and bring them up, with some consulting help from the Computing Division.

After the Clean Room is built, a team of people (Livermore, Columbia) will come out and move the TPC from Lab7 to the M-Test clean room. We will all then hook up the electronics and try and bring up the old DAQ.

3)Margaret Votava discussed the Computing Division appraisal of our DAQ needs. Should we keep VXWORKS or use UNIX based systems? Should we build the event in LINUX or use dual port memory? She sees the commissioning of the TPC using ODE (the CD product replacing DART) to take a 2-3 man months of an ODS (Operation an Database Systems department of the CD) person time as well as 1 man month ESE/ESD (ESE=electronics systems engineering) (ESD=Equipment Support Department, formerly known as PREP) shared between an engineer and technician. The CD will provide consultation and help with the infrastructure of the DAQ, if and when approved by the management. She would like a full time 907 person to be at FNAL while this happened, to be the 907 principal DAQ person. Brian Cole and Ron Soltz, being the 907 experts said that while it is difficult for them to be at FNAL for a 2 month stretch of time, they could simultaneously be here on 2 week stretches. This allocation of time needs the problem areas of the present DAQ to be studied in detail. Ruth Pordes has written an impact statement on the 907 request, but this has not been commented upon by the division head (Matthias Kasemann and Steve Wolbers). Jerry Peterson mentioned that a graduate student may be available to come to Fermilab to help with this, to work with Ron and Brian.

4) We discussed the drift chamber status. Ed Hartouni showed a list of available drift chambers (E-690, Hyper-CP, Focus, NuSea and Selex). We need to evaluate each of these and refurbish the chambers. It would be good if a joint team of U. of Colorado and Houston would take charge of this project. Chambers may need to be cleaned and electronics brought up from existing pools. We discussed the possibility of transporting the chambers to Colorado. Hartouni thought that this was feasible. Come November 2001, we need to have these chamber systems up and running. Peterson is in the process of hiring a postdoc who might play a leading role in this.

5) R. Raja showed plots of the Geant-3.21 program called HN_GEANT (Hadron Nucleus Geant) which has a data driven geometry. Currently it has the Jolly Green Giant, the TPC and the TPLB magnet described. Hartouni, Barnes and Soltz will send to Raja the up-to-date code on these as well as the E690 Cerenkov, drift chambers and the Selex RICH. The code will be put in CVS. The event interface to HN_GEANT is STDHEP.

6) Hartouni discussed the status of the ICO to transfer funds (~\$200K) from Livermore to FNAL to clean out Meson area and install fixed magnets. Bruce Chrisman has looked at the ICO and passed it on to Connie Trimby. FNAL seems happy with it. Livermore expects to get the contract from FNAL and set thing in motion in January 01. Chrisman tells Raja that The FNAL overhead (25%) will be used for E-907 related things as an attached MOU.

7) The other projects within E-907 for the next year are the RICH testing, the TOF system and the E-690 Cerenkov. The EFI and Elmhurst College groups have expressed interest in the RICH project. The South Colorado group has expressed interest in the TOF.

7) Peter Barnes described the web related project area where E-907 will keep the project description of each sub-project. The Video Conference was cut-off due at 16:30 in the middle of this presentation. Peter you can add more on this here.