

Minutes of the 1st EUROTeV Annual Meeting

Notes by F.Poirier & G.Xia¹

The 1st EUROTeV Annual Meeting was held at DESY on Jan 27, 2006 with 23 participants. The list of participants is appended. The meeting constituted the first meeting of the Governing Board of EUROTeV. The agenda comprised the scientific reports of each Work Package and was followed by the financial report. Plans for the future progress of the Consortium in its second year and beyond were presented.

On behalf of EUROTeV project, E.Elsen welcomed all the participants and then gave a report on "Introduction & Charge". He introduced the overall status of this project in the year 2005 and the agenda of this meeting. After that, the coordinator from each Work Package delivered the scientific report.

Scientific Reports

F.Willeke gave a report on "Global Accelerator Network – Multipurpose Virtual Laboratory". He summarised the activities from Work Package 8 in the year 2005 and outlined the plan for the year 2006. He stressed the video-communication and remote accelerator control.

D.Angal-Kalinin has focused on 5 technical areas: Beam Delivery System Lattice Design (BDSLD), Crab Cavity RF System Design (CRABRF), Fast Beam Based Feedback (FBBK), Spoiler Wake Field and Mechanical Design (SWMD) and Super Conducting Final Doublet technology R & D (SCFD).

Significant contributions to ILC BDS design and a leading role in the development of the ILC BCD were reported. The goals for 2006 were outlined spanning over the design of missing parts in the lattice to the contribution to the ILC RDR.

N.Walker presented the talk of S.Guiducci on Work Package 3, "Damping Rings". The 4 main tasks including E-CLOUD, RFSEF, LETS and WGLRDYN were studied in detail during the year 2005. Each of them gave significant contribution to the ILC global effort. This process will continue in 2006. One change over the initial design was the abandoning of the RF-kicker design, an approach that has proven obsolete with the recent development in stripline kickers. The effort is hence devoted to stripline kicker development.

J.Clark, for the Work Package 4, has put forward 7 highlights from 2005: the Helical Undulator selected for the baseline, the success of E-166, the superconducting technology for the undulator, the spin tracking results and the implementation of polarisation in Geant4. He reported on the workshop successfully held at Daresbury in April 2005 and on the formation of global target collaboration.

G.Blair from Work Package 5 delivered a report on "Diagnostics". He mentioned the progress of diagnostics including Precision BPM, LBPM, TPMON, ESPEC, PLIC, FLUM WBCM (Wide Band Current Monitor) and NanoBPM collaboration at ATF with KEK and SLAC. He also gave the detailed plan for the next few months.

D.Schulte has presented 7 tasks within the Work Package 6 including luminosity and alignment studies, collimation simulation, failure mode, beam-beam simulation

¹ Freddy Poirier: freddy.poirier@desy.de, Guoxing Xia: guoxing.xia@desy.de

development, halo and tail generation, bunch compressor and post collision diagnostic line. Series of results for mid-2006 milestone are in progress.

Work Package 7 mainly focuses on the “Metrology and Stabilisation”. Y.Karyotakis summarized the research work done so far including seismic sensor’s evaluation, sensor and actuator study, the interferometers, the vibration of superconducting magnets and correlation measurement study etc.

Each scientific report listed the meetings and workshops they attended last year and what they will do in the year 2006. They mentioned the slow hiring process of scientific personnel which however is now complete. They also gave information about the expenses of their activities.

Governing Board

Following the scientific reports the election of the chairman of the Governing Board was held: G.Blair was the only proposed candidate and unanimously elected. G.Blair then chaired the rest of the meeting.

E.Elsen gave the annual report including the highlights of 2005, and mentioned specifically major meetings of the year (Regional meeting at RHUL, 2nd ILC WS at Snowmass, meeting with EU representatives at Brussels and the ECRIUK conference where EUROTeV was invited to present its case).

E.Elsen presented the 1st annual report, a document to be delivered by the 14th of February 2006 and emphasised the efforts required for its completion.

The financial aspects of EUROTeV were detailed and E.Elsen made conscious recommendations on the use of the finance: “If it is EUROTeV work use EUROTeV funds”. He **strongly reminded the contract between the institutes and the EU community particularly on Payment modalities²**.

K.Buesser then gave a report on Dissemination of Knowledge Activities in EUROTeV in 2005. He listed important activities in the last year. EUROTeV runs a central web portal which has been widely accepted. The EUROTeV reports and EUROTeV memos do reflect our contribution to the ILC community. He also listed some important meetings and scientific workshops which EUROTeV community contribute more in the year 2005. In a subsequent discussion it was agreed to make EUROTeV reports available to the SPIRES library system so that the information can be readily found.

E.Elsen reported on the plans of the 2nd period. He stressed that with flat funding for 2005-7 the amounts underspent in 2005 will not easily be available in subsequent years unless spending occurs at an accelerated rate in 2006-7. He iterated that EUROTeV, with its flexible scientific programme, has to continue to make essential contributions to the GDE and provide key elements for the RDR at the end of 2006. E.Elsen summarised that the design study is a powerful instrument for the European Research and as such came at the right moment.

Finally, E.Elsen delivered a brief report “Beyond EUROTeV”. He emphasized that the FP7 will come and the scope is widened. He implied that the EU approved EUROTeV to continue design studies beyond the stage of design and recalled that the

² Article 8 - Payment modalities of “EUROTeV contract”, Commission of the European Communities, http://www.eurotev.org/content/e154/upload/upload_file/EUROTeV_Contract.pdf

ILC is one of the few global projects on the list of opportunities of ESFRI. E.Elsen also called for preparation for FP7 and formation of (new) collaborations.

The reports presented at this meeting are listed in the following webpage:
<https://ilcsupport.desy.de/cdsagenda/fullAgenda.php?ida=a063>.

List of Participants

- Deepa Angal-Kalinin, ASTeC, Daresbury Laboratory
- Grahame Blair, RHUL
- Karsten Buesser, DESY
- Jim Clarke, Daresbury Laboratory
- Eckhard Elsen, DESY
- Arnaud Ferrari, Uppsala University
- Silvia Gabrielli, HCI Lab, University of Udine
- Gilbert Guignard, CERN
- Markus Hodapp, University of Mannheim
- Roger Jones, University of Manchester
- Yannis Karyotakis, LAPP
- Alexey Lyapin, UCL
- Wolfgang F.O. Müller, TEMF, TUD
- Olivier Napoly, CEA
- Marco Pedrozzi, PSI
- Neil Pratt, CCLRC
- Roberto Ranon, HCI Lab, University of Udine
- Daniel Schulte, CERN
- Nicholas Walker, DESY
- Ferdinand Willeke, DESY

DESY secretary:

Silvie Faverot-Spengler, DESY