

FIFTY-EIGHTH ICFA MEETING

2 August 2008
Philadelphia, USA

Present: Carlos Avila, Robert Aymar, Ariella Cattai, Weiren Chou, Jonathan Dorfan, Umberto Dosselli, Gregor Herten, Sachio Komamiya, Shi-Chang Lee, David MacFarlane, Karlheinz Meier, Harvey Newman, Pier Oddone, Natalie Roe, Roy Rubinstein (Secretary), Atsuto Suzuki, Geoff Taylor, William Trischuk, Mitsuru Uesaka, Albrecht Wagner (Chair)

Note: All attachments are available at
http://www.fnal.gov/directorate/icfa/ICFAAugust2008/ICFA_August2008.htm

1. ILCSC

Albrecht Wagner reported on the 2 June 2008 ILCSC meeting held at Dubna, Russia. The GDE has produced an R&D plan for the technical design phases TDP I (until 2010) and TDP II (until 2012) (see Attachment I), which takes into account the effects of the recent UK and US funding cuts. ILCSC congratulated Barry Barish on overcoming these crises. There is now a stronger connection with CLIC on both the accelerator and the detectors.

The ILC detector program has been revised to keep in synchronism with that of the accelerator. There is a call for detector Letters of Intent to be submitted by March 2009, which will then be validated by the International Detector Advisory Group (IDAG); the goal is to eventually have two complementary detectors taking data at the ILC.

JINR, Dubna, has proposed a nearby site for the ILC, and a letter has been sent to the Russian government by JINR and other Russian organizations containing this proposal. The site geology is good, there is little human presence at the proposed accelerator location, and it will be a shallow site (~ 30 metres underground), unlike the current three (deep) reference sites.

Wagner reported that an ILCSC subgroup will study site selection procedures. A new GDE MOU has been produced for the Technical Design Phase, and signatures are currently being obtained. ILCSC has set up a Project Advisory Committee (PAC) to review ILC accelerator and detector activities; for the first year it is chaired by Jean-Eudes Augustin, and its first meeting will be 19/20 October 2008 at LPNHE, Paris.

2. FALC

A report on the 24 July 2008 Funding Agencies for Large Colliders (FALC) meeting in Rome was given by Albrecht Wagner. Dennis Kovar of the US DOE said that the recent P5 report recommended that all future US particle physics funding scenarios studied allow ILC activities until 2012.

FALC strongly endorsed the GDE response to the UK and US funding cuts, and welcomed the increased collaboration with CLIC. The hope is that solid LHC results by 2012 will allow a

statement on the energy range for a future linear collider; by that date also the TDP should be completed, the feasibility of CLIC technology should be known, and the XFEL should be nearing completion.

The term of the current FALC chair, Roberto Petronzio, will end, and Pierre Coulombe was elected to be the next Chair; he is President of the Canadian NRC.

3. Next ICFA Chair

Robert Aymar reported for the ICFA subcommittee which was asked to make a recommendation for the next ICFA Chair, whose term will start on 1 January 2009. The subcommittee's recommendation is Atsuto Suzuki; however, currently it is not known if he will be reappointed as KEK Director General, although that decision should be announced soon. The decision on the next ICFA Chair will therefore be postponed to the next ICFA meeting in October 2008.

4. ICFA Seminar

Plans for the 28-31 October 2008 ICFA Seminar to be held at SLAC were presented by David MacFarlane (see Attachment II). The Seminar will occur close in time to the B Factory Symposium (27 October) and the BaBar collaboration meeting (26-30 October), both also at SLAC. The Seminar will be held in SLAC's Kavli Auditorium, which will limit the number of attendees to 150.

National coordinators were contacted recently with a request to submit invitee names by 25 August; this short time scale is necessary in order to allow time for obtaining US visas.

MacFarlane showed a proposed Seminar program, and suggestions for possible modifications were made by ICFA members. A revised version will be produced soon.

5. Future of IHEPCCC

ICFA had earlier received a communication (Attachment III) from Randall Sobie, the current IHEPCCC Chair, recommending that this ICFA Panel be discontinued. WLCG is now the global organization for particle physics computing, and is addressing many issues that previously were addressed by IHEPCCC. In addition, no current IHEPCCC member has indicated interest in becoming Chair.

Harvey Newman felt that there are still issues in computing which need to be brought to ICFA's attention, and a Chair for IHEPCCC might be found outside of the existing IHEPCCC membership. In the discussion, it was felt that the first step should be the determination of a future role for IHEPCCC. **Newman was asked to identify possible elements of a future mission for IHEPCCC, and how it would complement WLCG.**

6. Advanced Accelerator Panel

Mitsuru Uesaka mentioned two recent changes in Panel membership, and noted collaboration with the Beam Dynamics Panel. He discussed plans for a newsletter by the Panel, and plans for mini-workshops. ICFA approved the 7-12 September 2008 Workshop on Compton Sources for X/gamma Rays, in Italy, and Uesaka mentioned other possible future workshops. His presentation is in Attachment IV.

7. Beam Dynamics Panel

The Panel Chair, Weiren Chou, requested approval of the 44th and 45th Advanced Beam Dynamics Workshops, and ICFA approved them. Chou showed a preliminary version of the poster "A Brief History of Particle Accelerators". His presentation is in Attachment V.

8. Standing Committee on Regional Connectivity

Harvey Newman noted (Attachment VI) that networking bandwidth is still a limitation, and prices are going up. Over the next 5 years rates will be 80 to 400 Gbs, with 40 Gbs and 100 Gbs standards from 2011. He listed what networks still need to do, and mentioned the GEANT3 White Paper which was made public on 2 August 2008. Transoceanic 100Gbs networks should be available by ~ 2012. Newman showed the internet traffic and bandwidth growth over the period 2004-2007.

9. Instrumentation Panel

This Panel has not been very active during the past few years, reported Ariella Cattai who has recently taken over as chair, but changes are planned, and she asked for suggestions from ICFA members. The next Instrumentation School will be held in Bariloche, Argentina, around the end of 2009, and a preliminary agenda for the School should be available soon.

10. Open Access Publishing

Robert Aymar reported that there has been progress towards open access publishing in Europe and some US regions, with replies still awaited from Asian countries. As soon as pledges are received for 75% of the expected costs, a Board for the program will be set up, and bids will be solicited; it is hoped that the Board will be in existence by the end of 2008. Definite support from institutions, libraries, etc. is needed.

12. Future ICFA Meetings

There will be a short meeting of ICFA over a lunchtime during the 28-31 October 2008 ICFA Seminar at SLAC. Future ICFA meetings will be 12/13 February 2009 at KEK, and in Hamburg during the 17-22 August 2009 Lepton-Photon Symposium; the likely date may be the four day on Wednesday 19 August 2009.