

Minutes - ICFA High Intensity Hadron Beams Working Group Meeting

Monday, May 12, 2003, 6:00 - 8:00 pm
Studio Suite, Hilton Hotel, Portland, Oregon, U.S.A.

1. Seventeen members or their designated representatives and invitees attended the meeting. They were: (in alphabetical order)
 - Weiren Chou (Fermilab)
 - Ron Davidson (PPPL)
 - Miguel Furman (LBL, for Jonathan Wurtele)
 - Roland Garoby (CERN)
 - Massimo Giovannozzi (CERN, for Roberto Cappelletti)
 - Stuart Henderson (ORNL, for John Galambos)
 - Ingo Hofmann (GSI, invitee)
 - Jean-Michel Lagniel (CEA, invitee)
 - Trevor Linnecar (CERN)
 - Bob Macek (LANL)
 - Ernie Malamud (Fermilab, invitee)
 - Won Namkung (POSTECH, invitee)
 - Chris Prior (RAL)
 - Thomas Roser (BNL)
 - Izumi Sakai (KEK, for Yoshiharu Mori)
 - Lee Teng (ANL, invitee)
 - Bill Weng (BNL)

The meeting was chaired by W. Chou. He made the announcement about the retirement of C. Zhang (IHEP/China), who will be replaced by J-Q. Wang (IHEP/China). The group thanked Prof. Zhang for his valuable contribution in the past years and welcomed Dr. Wang to join it.

2. There were brief reports on three construction projects and three future projects:
 - SNS project, S. Henderson (ORNL)
 - LHC project, M. Giovannozzi (CERN)
 - J-PARC project, I. Sakai (KEK)
 - GSI future facility, I. Hofmann (GSI)
 - High intensity hadron beams in Korea, W. Namkung (POSTECH)
 - CSNS project, C. Zhang (IHEP/China, presented by W. Chou)

The "Big Three" construction projects (SNS, LHC and J-PARC) are proceeding well. Their completion dates are all scheduled around 2006. The GSI future facility has got the approval of the German government and is expected to start the construction in a few years (contingent upon 25% international funding). The total budget is about 700 M euros. Korea is working on a 1 GeV high intensity proton facility called KOMAC. The first stage is 1/10 of this project, namely, a 100 MeV, 20 mA, pulsed proton linac. The budget is about US\$100 M. China has started the design work of a synchrotron based spallation neutron source called CSNS. The beam power is 100 kW and upgradeable to 400 kW.

3. ICFA mini-workshops:

- In the past years, this working group has organized 12 mini-workshops. This type of workshops is gaining popularity also in other ICFA working groups because of its flexibility, efficiency and productivity.
- C. Prior gave a report on the recent 12th mini-workshop on space charge simulation, held April 2-4, 2003 in Oxford, U.K. In particular, he introduced a code benchmarking agreement among a number of attendees at the workshop.
- 3-4 new mini-workshops were proposed for 2003-2005:
 - “Vacuum,” BNL, organizer T. Roser.
 - “Low level RF,” CERN, organizers R. Garoby and T. Linnecar.
 - “Magnet fringe field,” Fermilab, organizer W. Chou.
 - A mini-workshop in Korea or Japan, topic to be decided.These proposals will be submitted to the ICFA Beam Dynamics Panel for approval. (Note: At the Panel meeting on the following day, these mini-workshops were approved.)

4. ICFA “full” workshop:

- The last “full” workshop organized by this working group, HB2002, April 12-15, 2002 at Fermilab was a success. There were about 150 registered participants. The proceedings have been published by the AIP in both hardcopy and CD.
- The next one, HB2004, will take place in early October 2004, at Mainz, Germany. It will be co-chaired by I. Hofmann (GSI) and J-M. Lagniel (CEA). This proposal will be submitted to the ICFA Beam Dynamics Panel and ICFA Committee for approval. (Note: The Panel has approved this workshop. The Committee is expected to discuss this proposal at its August meeting.)