

July 29, 2008

Minutes of the meeting of ICFA panel on advanced and novel Accelerators

1. Date, Place and Attendance

July 29th, 2008, at Rm of New Brighton, AAC2008 in Santa Cruz, CA, USA

M. Uesaka (Chair, U.Tokyo), W.Leemans (LBL), P. Muggli (USC), J.Rosenzweig (UCLA), B.Carlsten (LANL), B.Cros (LPGP-CNRS-U. Paris), W.Gai (ANL), D.Jaroszynski (U. Strathclyde, UK), V.Yakimenko (deputy for I.Ben-zvi BNL), J.Lutten (U. Eindhoven U. of Tech.)

September 10th, at Hotel Portoconte, Alghero, Italy

M.Uesaka, L.Serafini, R.Ruth, R.Hajima, C.Tang

2. Memos

-The roles and hierarchy of ICFA, the panels, and IUPAP (International Union of Pure and Applied Physics) which is the upper union over the ICFA were explained by Uesaka. Importance of the aspects of accelerator and beam physics was also emphasized and confirmed.

- Meaning and process of endorsement of ICFA workshops were discussed. Those are suggestion on the quality control, encouragement to form prizes for young researchers and students, encouragement to publish as many contributions to be published in prestige journals as possible. The ICFA endorsement would be very effective for the status and advertisement of workshops, etc.

- Endorsed workshop and candidates are in the following.

Endorsed

Compton Sources for X/gamma Rays: Physics and Applications, Alghero, Italy, 7-12 September 2008

Candidates

One being chaired by Jaroszynski, Prague, Czech, April, 2009

Plasma Accelerators chaired by Muggli, Kaldamili, Greece, June-July, 2009

Compact accelerators and ultrashort beams; their development and application chaired by Dr.X.J.Wang and Gai, Xi'an, China, September, 2009

3rd High Brightness Beams, Hawaii, USA, November, 2009

- Treatment of not endorsed but related/smaller/local workshops or summer schools was discussed. Even just links at the web sites would be effective to both the panel and those activities. This item is to be discussed at the next ICFA meeting in Philadelphia on Aug.2nd.

- Importance and management of the panel-issued newsletter was discussed.

1) Uesaka proposes that each or a few panel-members should be responsible for on newsletter issued every several months. Then, the possibility that the contents are edited and published in a monograph by a commercial publisher like Imperial College Press Co. after the one circulation is discussed.

2) The contents were discussed.

“Advanced Compact Accelerators and Applications”

S-band linac and application: L.Serafini, J.Louiten et al.

L-band linac including superconducting and application: S.Schreiber et al

X-band linac:Louis Rinolfi et al.

Medical physics application: Mitsuru Uesaka et al.
Compact linacs and industrial application: Tang Chuangxiang et al.
Inverse Compton scattering source and industrial application: R.Ruth et al.
High brightness beam and application: J.Rosenzweig et al.
Wakefield accelerator and application: W.Gai et al.
Extremely high RF accelerator and application: B.Carsten et al.
FEL application: R.Hajima et al.
Ion cooling and application: I.Ben-zvi et al.
Laser plasma electron accelerator and application (Energy frontier, Pump-and-probe analysis, Intense photon science, FEL etc.): W.Leemans, B.Cros, Jongmin Lee, Dino Jaroszynski et al.
Beam plasma accelerator and application: P.Muggli et al.
Compact ion accelerator and application: A.Noda et al.
Topics on beam physics: F.Zimmermann et al.

The listed persons are supposed to be the issue editors. They are responsible for the subjects. Of course, they can ask for other members' contributions and helps, similarly as the beam dynamics panel is doing.

If we refer to the form of the beam dynamics' newsletter, the contents would be the following,

- Foreword
- From the chair
- From the issue editor
- Topics
- Activity Reports
- Workshop and Conference Reports
- Recent doctoral thesis
- Forthcoming events.

It should have updated, informative and valuable contents which readers want to have. We don't have to follow such a large volume as the beam dynamics panel's newsletter. To show the links to important sites would be also available. Even helps from collaborators except the members are also available. The subjects can be improved after our discussion from now on. Some overlapping of the contents such as applications can be allowable at the stage of the electrical circulation. Then, they will be edited by us properly. As you may know, Uesaka wrote, edited and published the monograph of "Femtosecond Beam Science (<http://www.icpress.co.uk/books/physics/p278.html>)" from Imperial College Press in 2005. The possibility that the contents are edited and published in a monograph by a commercial publisher like Imperial College Press Co. after the one circulation was also discussed.