

Activities of the International Committee for Future Accelerators (ICFA)

July 2015 – July 2016

Pushpa Bhat – ICFA Secretary (February 2016 – present)

Roy Rubinstein – ICFA Secretary (until February 2016)

1. Introduction

During the past year there were two ICFA meetings: on 19 August 2015 during the Lepton-Photon Symposium in Ljubljana, Slovenia, and on 25/26 February 2016 at J-PARC, Japan. At the February meeting, which is the major annual ICFA meeting, directors of the world's leading particle physics laboratories were also invited, as has been the practice for the past ~2 decades. This allows a more extensive discussion of both the current and the future status of particle physics.

The current ICFA membership is given in Appendix I.

2. International Linear Collider (ILC)

The Linear Collider Collaboration (LCC) under ICFA's Linear Collider Board (LCB) continues to work with organizations in Japan and around the world on the possible hosting of the ILC in Japan. ICFA sent a detailed response to a report on the ILC produced by a Panel advising the Japanese government's MEXT ministry. LCC is also providing information to a new Panel looking into the human resources needed to design, build, and operate the ILC.

ILC design changes under consideration include moving most of the cryogenics from the tunnel to the surface; the creation of 1.1 km tunnel free space for a possible electron-driven positron source; and a reduction in the thickness of the tunnel shielding wall.

Also under current study are possible ILC design modifications if the "750 GeV LHC bump" is shown to be real.

The LCB mandate was extended by ICFA last year to the end of 2016, and discussions were initiated to update mandate and composition to address the next steps in the best possible way. An ICFA subgroup is working on a new LCB mandate and structure, to be presented at the next ICFA meeting.

3. Proposed ICFA Collaboration with the Astroparticle Physics International Committee (ApPIC)

ICFA endorsed an ApPIC suggestion for closer ties between the two committees, and representatives of each committee will in future attend some of the other's meetings.

4. ICFA Panels

A discussion was started on ICFA Panels, their mandates, and the issue of time limits on the durations of Panels and their memberships. A new ICFA Panel on Sustainable Accelerators and Colliders has been proposed.

5. Issue with Publications in University Ranking

Two organizations that rank universities worldwide announced that they would exclude papers from large collaborations from consideration, in their ranking. ICFA sent a letter to both organizations noting that this seemingly arbitrary decision could adversely affect several areas of science, including particle physics.

6. Reports

Reports were made at ICFA meetings by FALC, InterActions, the ICFA/ICUIL collaboration, ICFA Panel representatives, and by members of the labs, countries, and regions represented at the meetings.

ICFA MEMBERSHIP

July 2016

CERN Member States

H. Abramowicz
F. Gianotti
J. Mnich (Chair)

USA

N. Hadley
N. Lockyer
D. MacFarlane

Japan

T. Mori
M. Yamauchi

Russia

A. Bondar
S. Ivanov

Canada

M. Roney

China

Y. Wang

Other Countries

M. Cho
L. de Paula
V. Matveev

C11

J. Fuster

Secretary:

P. Bhat