

## ICFA Activities Report to IUPAP

April 2018

Pushpa Bhat, Fermilab (ICFA Secretary)

Geoffrey Taylor, CoEPP (ICFA Chair)

### 1. Introduction

Since the last ICFA report in September 2017, ICFA has had two meetings – (1) the ICFA Seminar during November 6-9, 2017 in Ottawa, Canada, and (2) the 81st annual meeting in Emmanuel College at the University of Cambridge, U.K., during March 8-10, 2018. The ICFA Seminar is held once every three years rotating between Americas, Asia and Europe, in addition to two ICFA meetings that are held every year – a two-day meeting in February-March time frame each year and a one-day meeting either at ICHEP or Lepton-Photon during summer. Brief reports on the two meetings mentioned above are given below.

### 2. ICFA Seminar

The triennial ICFA Seminar, held in Canada's capital city Ottawa, was very successful. The goals of the Seminar are to get a broad overview of the status of the field and to provide opportunity for ICFA-Community-Agency interactions. Heads of major particle physics Labs, agency leaders are invited, and invitees from the community are nominated through ICFA members. The program committee for the Seminar in Ottawa was chaired by Jonathan Bagger, the Director of TRIUMF, and comprised over a dozen other expert physicists from across the particle, accelerator and astroparticle physics communities, some of whom were ICFA members. The Seminar covered topics of neutrinos, dark matter, QCD, Higgs and Electroweak, flavor physics as well as accelerators, detectors, medical isotopes, data sciences and new technologies. The committee strived for regional and gender balance and achieved it with excellent results and very high quality! There were 212 registered participants – 92 from Americas, 78 from Europe and 42 from Asia; 44% of speakers were female.

The Seminar was also very successful in attracting government officials to the meeting. Honorable Julie Payette, the Governor General of Canada attended the reception hosted in the Canadian Museum of History, addressed the attendees and had conversations with the attendees. In the closing session of the meeting, a keynote address was given by the Parliamentary Secretary of Science in the Government of Canada, Kate Young, and a round table discussion with some of the leaders in our field, moderated by Paul Wells of MaClean magazine was held. The meeting also had an embedded popular science communicator, Ian O'Neil of Astroengine, who spoke about his impressions of the meeting. The Seminar was highly informative, productive and enjoyed by the participants.

A group photograph of participants taken at the Seminar is shown below.



### 3. ICFA Statement on the ILC

The ICFA members took the opportunity of the Seminar week to hold an evening meeting of the Linear Collider Board (LCB) as well as of ICFA. The LCB submitted its concise report on its conclusions regarding the Japanese proposal to build and host the 250 GeV International Linear Collider (ILC 250) in Japan. ICFA received the report and after deliberations, released a Statement endorsing the LCB conclusions. The ICFA statement on the 250 GeV ILC in Japan can be found at

<http://icfa.fnal.gov/wp-content/uploads/ICFA-Statement-Nov2017.pdf>

Press releases were issued by all major laboratories.

### 4. The 81<sup>st</sup> ICFA Meeting

The 81<sup>st</sup> ICFA meeting was held during March 8-10, 2018 at the Emmanuel College, University of Cambridge, U.K. Prof. Mark Thomson of U. Cambridge was the official host; the meeting was co-sponsored by Fermilab and Emmanuel College. As is the practice for this annual meeting, the directors of the world's leading particle physics laboratories were invited to allow an extensive discussion of both the current status and plans for future of particle physics research, and R&D activities.

As part of the meeting, the Linear Collider Board (LCB), a panel of ICFA, also held its sessions to further discuss the progress and activities of the Linear Collider Collaboration and progress with the ILC250 proposal in Japan.

There was also a meeting of the Funding Agencies for Large Colliders (FALC) that took place in conjunction with the ICFA meeting.

The LCB and FALC reports were given at the ICFA meeting. ICFA also held an executive session where Policies & Procedures for the panels were discussed and clarified, and several proposed workshops on Beam Dynamics and Advanced and Novel Accelerators were endorsed.

#### 5. Global planning for HEP

ICFA heard reports from Lab directors from around the world and region representatives, as well as various ICFA panel chairs. ICFA will continue to work with its panels to deliberate on the R&D, studies and other activities in the upcoming months and years. ICFA will try to create a timeline for the large-scale particle physics projects based on the current knowledge.

#### 6. Future ICFA Meetings

The next ICFA meeting will be held on July 8<sup>th</sup> in Seoul, South Korea, during ICHEP 2018. Short meetings of FALC and LCB will also be held in conjunction with the ICFA meeting. The subsequent ICFA meeting is being planned to be held in Tokyo, Japan, in Feb/March 2019.

## Appendix I

### **ICFA MEMBERSHIP**

April 2018

#### Australia

G. Taylor (Chair)

#### CERN Member States

J. D'Hondt  
F. Gianotti  
J. Mnich

#### USA

N. Hadley  
N. Lockyer  
D. MacFarlane

#### Japan

T. Mori  
M. Yamauchi

#### Russia

I. Koop  
V. Petrov

#### Canada

M. Roney

#### China

Y. Wang

#### Other Countries

E. Álvarez  
V. Matveev  
P.A. Naik

#### C11

H. Schellman

Secretary:

P. Bhat (USA)