

ICFA Report to ICHEP 2014

J. Mnich (for Nigel Lockyer)

ICFA: International Committee for Future Accelerators

Web site: <http://www.fnal.gov/directorate/icfa/index.html>

Mandate:

- **promote international collaboration on very high energy accelerators**
- **organize regularly world-inclusive meetings for the exchange of information on future plans**
- **organize workshops for the study of problems related to super high-energy accelerators**

ICFA Membership

July 2014:

CERN Member States

R. Heuer

M. Krammer

J. Mnich

USA

N. Lockyer (Chair)

D. MacFarlane

I. Shipsey

Japan

T. Mori

A. Suzuki

Russia

A Bondar

S. Ivanov

Canada

M. Roney

China

Y. Wang

Other Countries

L. de Paula

V. Matveev

A. Roy

C11

H. Aihara

Secretary: R. Rubinstein

ICFA Meetings

(since June 2013)

- **February 20/21, 2014 at DESY, Hamburg**
- **July 6, 2014 at ICHEP, Valencia**
 - **ICFA meetings scheduled at same day as Linear Collider Board (LCB) meetings because of large overlap of participants**
- **Main topics of discussion**
 - **Global planning for Particle Physics**
 - **Linear Collider**

Global Planning for Particle Physics

- **ICFA heard reports and discussed**
 - roadmaps in particle physics developed in the 3 regions
Asia, Europe, USA (P5)
 - future large international accelerator ideas & projects,
among them are HL-LHC, ILC, CLIC, FCC, CEPC

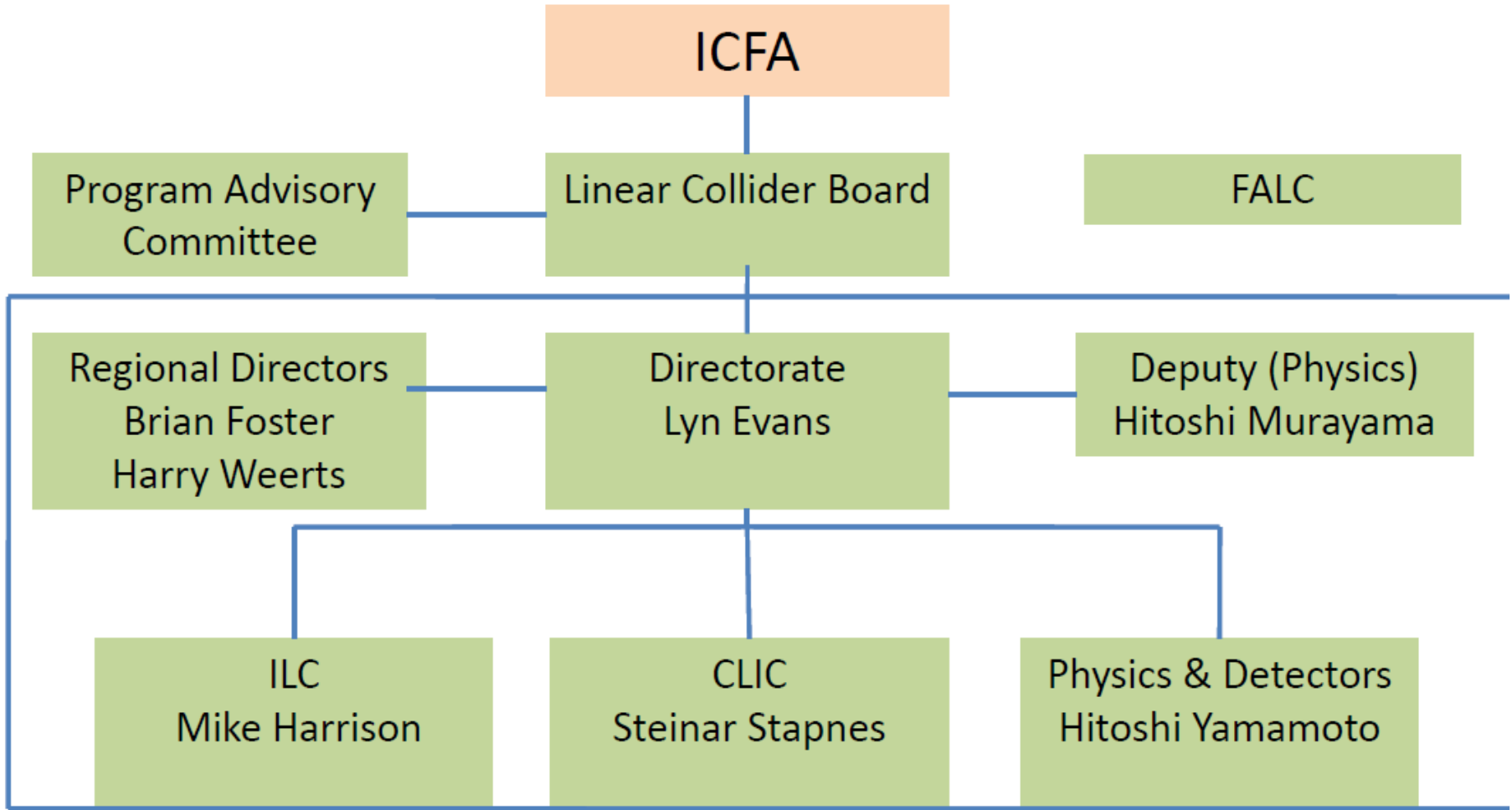
Global Planning for Particle Physics

ICFA Statement on its Support of the ILC, its Endorsement of the Strategic Plans of Europe, Asia and the United States, and its Encouragement of International Studies of Future Circular Colliders

ICFA endorses the particle physics strategic plans produced in Europe, Asia and the United States and the globally aligned priorities contained therein. Here, ICFA reaffirms its support of the ILC, which is in a mature state of technical development and offers unprecedented opportunities for precision studies of the newly discovered Higgs boson. In addition, ICFA continues to encourage international studies of circular colliders, with an ultimate goal of proton-proton collisions at energies much higher than those of the LHC.



Organization



Linear Collider Board

Sub-panel of ICFA to promote the construction of an electron-positron linear collider and its detectors as a world-wide collaborative project

Membership of the Linear Collider Board

**Chair Sachio Komamiya
(Secretary: Roy Rubinstein)**

Americas

**Jonathan Bagger
The Fermilab Director (currently Nigel Lockyer)
David MacFarlane
Lia Merminga
Hugh Montgomery**

Asia

**Jie Gao
Rohini Godbole
Sunkee Kim
Atsuto Suzuki
Yifang Wang**

Europe

**The CERN Director-General (Rolf Heuer)
The DESY Director of Particle Physics (Joachim Mnich)
The JINR Director (Victor Matveev)
Francois Le Diberder
Leonid Rivkin**

News on Linear Collider

- **ILC Project Office has been set up at KEK**
 - it interacts with the Japanese government and with the international Linear Collider Collaboration (LCC)
- **LCB and LCC are discussing ILC staging scenarios**
 - community input is being sought, with the aim of a consensus scenario by the October 2014 Linear Collider Workshop
- **LCC is now studying site-specific designs for the ILC in the Japanese-selected site**
 - subcommittee is reviewing possible ILC governance models

ICFA Neutrino Panel

- **Mandate:**

To promote international cooperation in the development of the accelerator-based neutrino-oscillation program and to promote international collaboration in the development of a neutrino factory as a future intense source of neutrinos for particle physics experiments.

- **Chair: Ken Long**

- **Details:**

http://www.fnal.gov/directorate/icfa/neutrino_panel.html

- **Initial report:**

<http://www.fnal.gov/directorate/icfa/files/ICFA-Neutrino-Panel-Rpt-1.pdf>

ICFA Seminar

- **Held every three years to review particle physics progress and plans**
 - bringing together government officials, representatives of the major funding agencies, directors of major HEP laboratories, and leading scientists from all regions
- **Next seminar will take place in 27 – 30 October, 2014 at IHEP, Beijing**



- **Web page <http://icfa2014.ihep.ac.cn/>**

Future ICFA Meetings and Chair

- **Upcoming ICFA Meetings:**
 - during ICFA seminar in Beijing, October 27 – 30, 2014
 - at JLAB, February 26/27, 2015
 - during Lepton-Photon in Slovenia, August 17 – 22, 2015

- **ICFA chair:**
 - Nigel Lockyer's term ends in December 2014
 - by rotation, the next ICFA Chair should be from Europe
 - J. Mnich (DESY) will become next ICFA Chair for a three-year term starting on 1 January 2015