

New PECFA/RECFA Members

Endorse and Welcome new PECFA member:

- Marek TASEVSKY (CZ) as from 1.1.2014

Endorse and Welcome new RECFA member:

- Peter LÉVAI, replacing Ferenc SIKLÉR as Hungarian RECFA representative, as from 1.1.2014

Report from the chairman

M. Krammer
HEPHY, Vienna, Austria

Report news since last PECFA meeting (Nov. 2013)

- ECFA supported Studies, Workshops and Schools
- RECFA Country Visits
- ICFA Matters
- Matters from the EPS-HEPP Board
- Call for nomination for the next ECFA chairperson
- Meetings in 2015

ECFA High Luminosity LHC Experiments Workshop: Physics and technology challenges

2nd Workshop: 21-23 Oct. 2014,
Aix-les-Bains, F

<http://indico.cern.ch/event/315626/>

**HL-LHC construction included in CERN
medium-term plan 2015-19 approved by the
CERN Council in June 2014!**



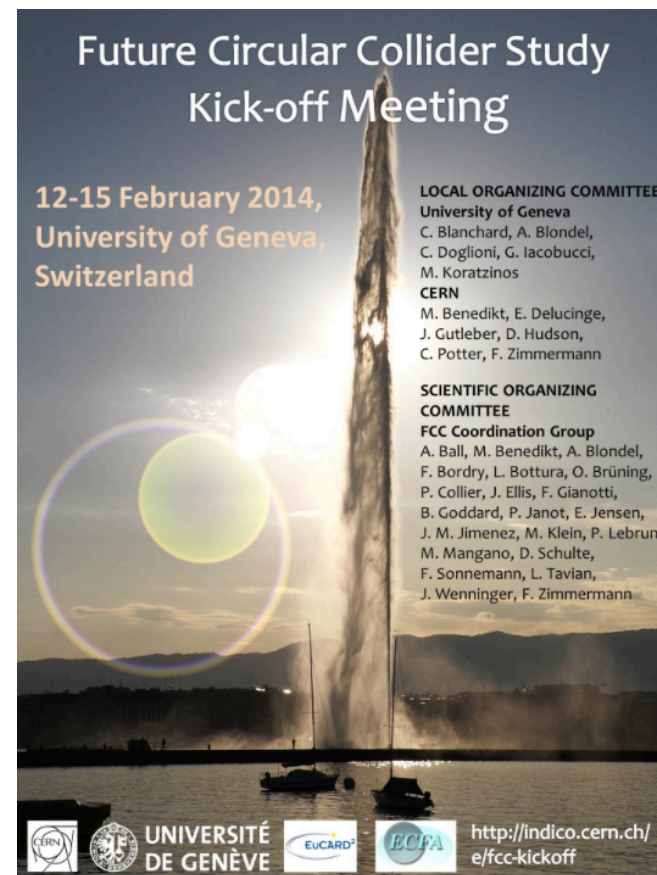
Future Circular Collider Study (FCC)

Launch of an international conceptual design study for Future Circular Collider
(under the auspices of ECFA)

Kick-off meeting 12-15 February 2014,
University of Geneva

<http://indico.cern.ch/event/282344/>

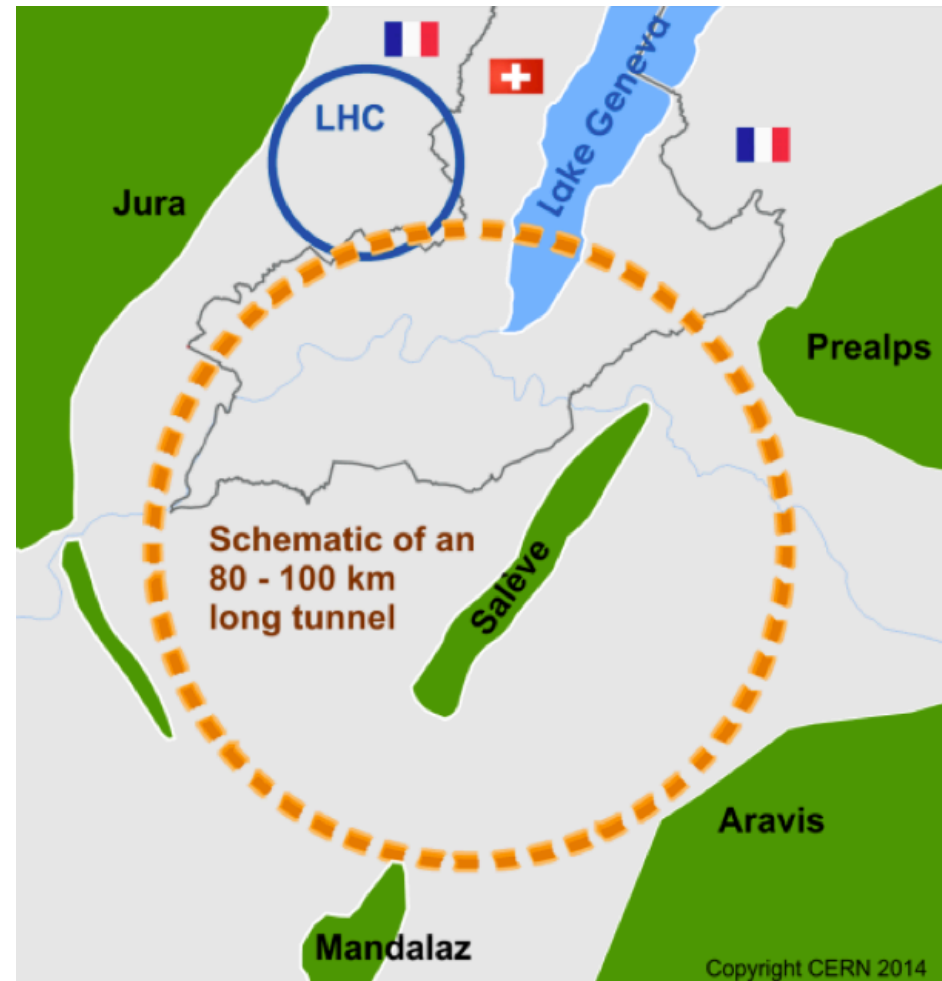
330 registered participants



ECFA European Committee for Future Accelerators

Scope of the 5 year study:

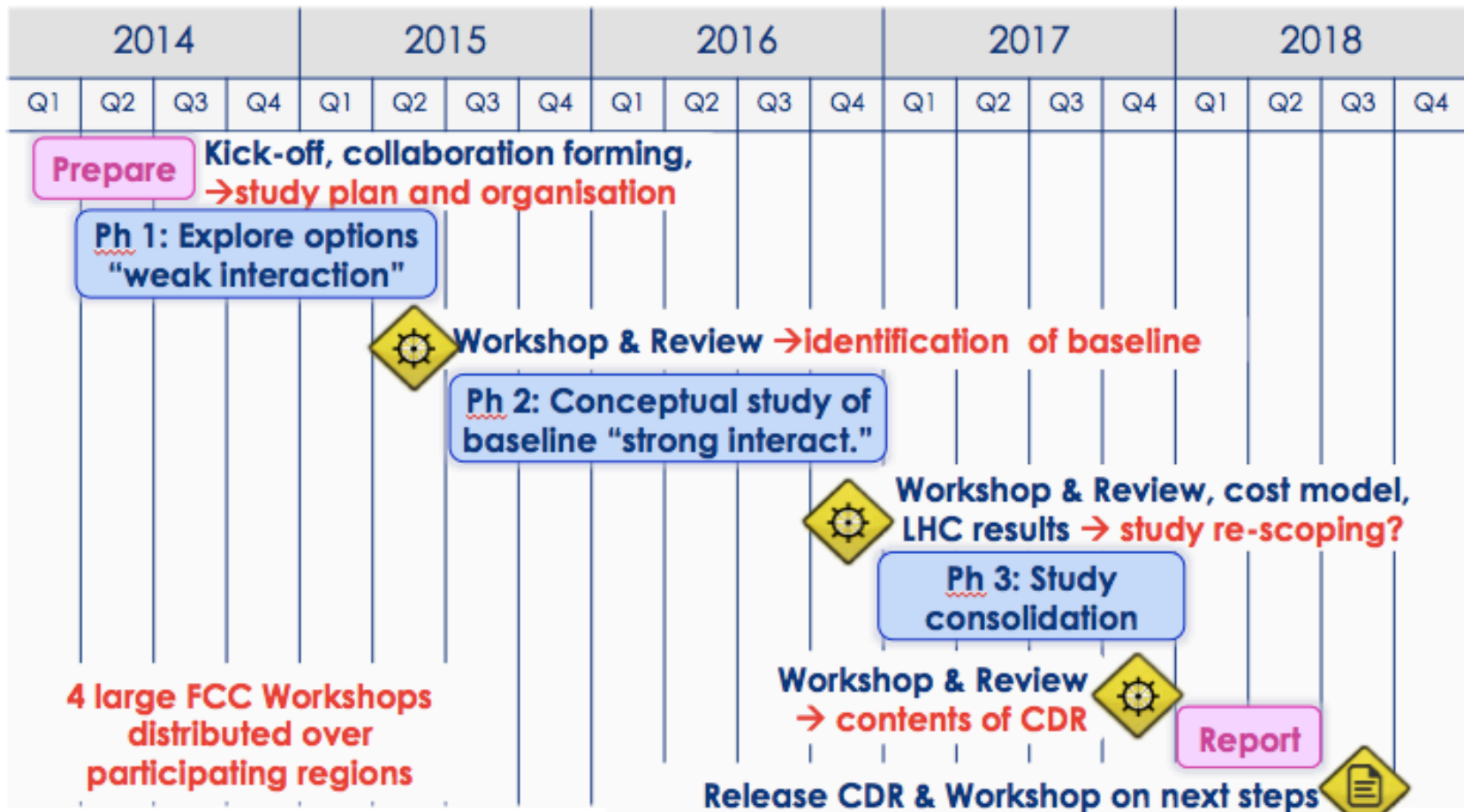
- **FCC-hh: 100 TeV pp-collider**
~16 T dipoles → 100 km
~20 T dipoles → 80 km
pp defines the requirements for the infrastructure
- **FCC-ee: 350 GeV e^+e^- collider**
As a possible intermediate step
- **FCC-he: included as option**
- **Infrastructure in Geneva area**



ECFA European Committee for Future Accelerators

Slides from M. Benedikt (Study coordinator together with F. Zimmermann)

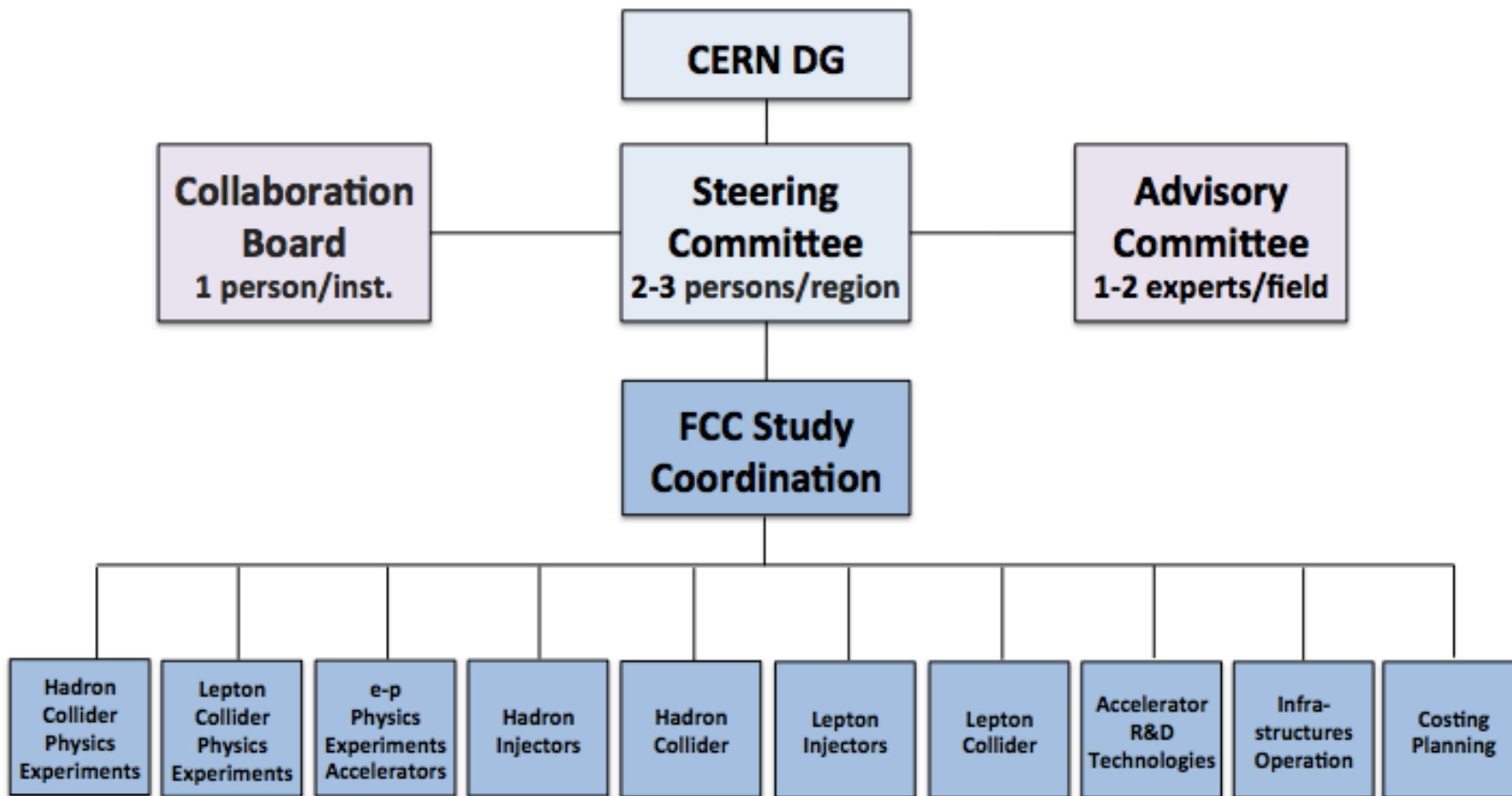
Proposal for FCC Study Time Line



ECFA European Committee for Future Accelerators

Slides from M. Benedikt

Proposed international organization structure



Instrumentation School in Serbia

University of Novi Sad, Serbia
September 8-13, 2014

The school was initiated during a RECFA country visit to Serbia. School intended for MSc, PhD students and postdocs who want to acquire hands on experience in different detector technologies used in Particle Physics and Nuclear Physics, as well.

Jointly organised by the ICFA Instrumentation Panel, CERN and ECFA

Danube School
on Instrumentation
in Elementary Particle
& Nuclear Physics

UNIVERSITY OF NOVI SAD, SERBIA
September 8-13, 2014

The school is an equal opportunity event intended for MSc, PhD and Postdoc students who want to acquire hands on experience in different detector technologies used in Particle Physics and Nuclear Physics. Researchers, who are actively involved in the field and are recognized experts in detector R&D, will give lectures and state-of-art laboratory sessions. Students are encouraged to attend, contribute and share their experience.

Review Talks

- Higgs Boson: from QED to LHC
- Future Challenges in Physics
- The Linear Colliders Challenges
- Neutrino Physics
- The Challenge of B-physics and rare decay events
- Astro-particle and dark matter searches
- Nuclear Physics

Accompanied by **lectures** and **laboratory "hands-on" practice** on detector techniques both in particle and nuclear physics.

INTERNATIONAL ADVISORY COMMITTEE

C. Alexa, IFN-III, Bucharest, Romania
P. Bloch, CERN
V. Brigićević, Rudjer Bosković Institute, Zagreb, Croatia
G. Casse, University of Liverpool, UK
A. Cattan, CERN
R.D. Heuer, CERN
P. Iovijević, INRNE, Bulgarian Academy of Sciences
M. Kratmer, HEPHY, Vienna, Austria
P. Krizan, University of Ljubljana and JZ, Slovenia
L. Masetti, CERN
E. Mazzo, INFN, Italy
M. Planinic, Faculty of Sciences, Zagreb, Croatia

LOCAL ORGANIZING COMMITTEE

P. Adžić, University of Belgrade
A. Belić, University of Belgrade
I. Bikić, University of Novi Sad
V. Cirojević, University of Novi Sad
M. Krmar, University of Novi Sad
P. Milenović, University of Belgrade
D. Mirda, University of Novi Sad
J. Nikolic, University of Novi Sad
D. Popović, University of Belgrade
G. Stojanović, University of Novi Sad
B. Šepić, University of Belgrade
M. Veskočić, University of Novi Sad (School Director)

More information and registration:
<http://cern-danube-school.uns.ac.rs>

Deadline for applications:
June 15th 2014



RECFA Country Visits 2014

- Israel, April 10/11, 2014 (Tel Aviv/Jerusalem)
- Germany, May 9/10, 2014 (Bonn)
- United Kingdom, November 7/8, 2014 (Rutherford Lab)

Midterm reports tomorrow by Belgium and Finland

RECFA visit to Israel



April 10, 2014



- Second visit to Israel, first after Israel became full CERN member state
- Outstanding science culture, investments into science among the highest in the world (per GDP) → outcome also exceptional
- Experimental focus on ATLAS → very visible contributions (construction, operation, upgrade), prestigious leadership positions
- Strong detector R&D at Tel Aviv University, the Technion, and the Weizmann Institute
- Very large and productive groups in theory and phenomenology, several Israeli theorists are leading figures in their field
- Issues discussed: Benefit from new status as full CERN member (e.g. strengthening the accelerator R&D programme), increase of career opportunities for young scientists

RECFA visit to Germany



May 9, 2014



- Strong effort by the government to achieve the investment goal of 3% GDP in research and development
- Complementary funding schemes: Verbundforschung, Helmholtz Association, the Max-Planck-Society, Universities
- Excellent coverage of the field of particle and astro-particle physics → high visibility in all projects and leading role of physicists
- Positive development towards funding of HL-LHC upgrade projects
- Accelerator and detectors R&D very strong in Germany → major contributions to FAIR, ILC, XFEL,..
- Outreach activity is exemplary and highly professional
- Issues discussed: maintaining the necessary computing capability, number of permanent research positions at universities (Mittelbau)

RECFA visit to Germany



May 9, 2014

- Strong effort by the government to achieve the

...and winner of the world cup 2014



Congratulation !!!!!

permanent research positions at universities (Mittelbau)

July 24/25 2014

95th Plenary ECFA DESY

13

ICFA Matters

Meetings in 2014:

- 20/21 February, DESY, Hamburg
 - 6 July, Valencia during ICHEP
 - 27-30 October, Beijing, during ICFA seminar
- ICFA meetings scheduled at same day as **Linear Collider Board (LCB)** meetings because of large overlap of participants
→ see presentation of B. Foster tomorrow.

LCB and the European LC Forum

Launch of a bi-directional information channel between the European members of LCB and the European linear collider community.

Web site (for information and subscription): <http://elcf.desy.de>

Home Meetings Contact

European Linear Collider Forum

European Linear Collider Forum

Mandate of the European Linear Collider Forum

The European Linear Collider Forum (ELCF) was created by ECFA in order to channel European discussions concerning future linear colliders and to facilitate input for the international Linear Collider Board (LCB) meetings.

Participation in the ELCF

Participation in the ELCF is open to all physicists working on linear collider projects in Europe. Especially senior colleagues are encouraged to participate.

News and upcoming meetings

The next meeting of the ELCF is scheduled for Tuesday, 11 February 2014, 10:00 CET.

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Coordinated by J. Mnich
Technical support by
Thomas Schörner-Sadenius

About 100 colleagues have
meanwhile subscribed to
the forum.

European LC Forum

- 1st meeting, February 11 (all meetings using Webex)
Discussion on the mode of operation of the forum and on the agenda of the following LCB meeting
- 2nd meeting, March 11
Report from the LCB meeting February 20, main points, discussion
- 3rd meeting, June 26
Preparation of the following LCB meeting
- 4th meeting, July 17
Report from the LCB meeting July 6, main points, discussion

Very successful format – interesting discussions and in my view fulfills it's purpose of better involving the community.

ICFA Matters cont'

Following reports ICFA discussed

- Roadmaps in particle physics from all 3 regions: Asia, Europe, Americas
- Future large international accelerator facilities: HL-LHC, ILC, CLIC, FCC, CEPC

and issued an ICFA statement on global planning for particle physics.

ICFA Statement

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.

ICFA Seminar

11th ICFA seminar at IHEP, Beijing, on 27-30 October 2014

<http://icfa2014.ihep.ac.cn>



The Seminar takes place every three years with the aim of bringing together government officials involved in strategic decisions for High Energy Physics (HEP), representatives of the major funding agencies, the directors of major HEP laboratories, and leading scientists from all of the regions of HEP activity.

News from ICFA Chair

Nigel Lockyer's term ends in December 2014

Appointment of the next ICFA chair person (rotation scheme brings the ICFA chair back to Europe):

Joachim Mnich (DESY)



EPS-HEPP Board

Theme for the next joint ECFA - EPS-HEPP session during the EPS conference, July 25 2015 in Vienna

Following a discussion in the EPS-HEPP board and RECFA we propose:

Connecting scales: bridging the infinities

Call for nominations for the next ECFA chairperson

Period January 2015 – December 2017

Proposed time line:

- Today** **PECFA meeting, call for nomination (through RECFA representatives)**
- Sept. 15 Deadline for nomination
Ask candidates if they stand and ask for CV and letter (until Oct. 5)
- Oct. 7 Distribute CV and candidate letters to RECFA representatives
Discussion and opinion building with home community
- Nov. 7 Chairperson election at the RECFA meeting (during UK visit)
- Nov. 20/21 Endorsement by PECFA

PECFA/RECFA Meetings in 2015

Plenary ECFA meetings:

- 97th PECFA July in Vienna during EPS conference (July 25)
Joint meeting with the EPS HEPP-Board
- 98th PECFA November 19/20 at CERN

RECFA country visits:

- Czech Republic March 27/28
- Portugal May 15/16
- Greece or Sweden

Request for Endorsements by Plenary ECFA

Nomination for the representative of ECFA in the FCC Steering Committee

The international Study of Future Circular Colliders is composing a steering committee consisting of members from the three regions Americas, Asia and Europe. ECFA was asked to nominate an ECFA representative.

Possible candidates were discussed in the RECFA meeting May 10. This agenda item was chaired by R. Heuer. RECFA decided to nominate **Manfred Krammer (HEPHY-Vienna)** as the representative of ECFA in the FCC Steering Committee following the completion of his mandate as ECFA chair.