

# ECFA

European Committee for Future Accelerators



## Report from the Chairperson

*Jorgen D'Hondt* ([Jorgen.DHondt@cern.ch](mailto:Jorgen.DHondt@cern.ch))

RECFA meeting, March 2<sup>nd</sup>, 2019, Madrid

## *Schedule of ECFA meetings in 2019*

- *Spain (Madrid), March 1-2, 2019*
- Slovenia (Ljubljana), April 5-6, 2019
- Poland (Warsaw), May 24-25, 2019
- Joint ECFA and EPS-HEPP session (Ghent), July 13, 2019 (including RECFA meeting)
- Cyprus (??), October 25-26, 2019
- CERN, November 14-15, 2019 (including RECFA on 14 Nov and PECFA on 14-15 Nov)



previously

## *PECFA meeting in 2020*

Plenary ECFA meeting at a major laboratory in the European region, typically in June-July 2020

1. I would launch, via email, a call for venues to all ECFA members
  - The proposals can be composed by ECFA and non-ECFA members, but need to be supported by at least one RECFA member
  - A proposal would contain at least: proposed date(s), location, description of the meeting room(s), accommodation, potential transport, potential visits to the scientific facilities, local organising team, ...
  - Deadline to receive proposals: 15 February 2019
2. First discussion of the proposals within RECFA at our meeting on 1-2 March 2019 (Spain), decide within RECFA either at our meeting on 4-5 April 2019 (Slovenia) or on 24-25 May 2019 (Poland)
3. Announce the venue at the PECFA meeting at Ghent/Belgium, i.e. during the joint EPS-HEP and ECFA session

## ***PECFA meeting in 2020***

- Two proposals received: JINR (Dubna, Russia) and CPPM (Marseille, France)
- Both proposals are attached to the indico page of our meeting

## ***Joint session ECFA and EPS-HEPP***

*(13 July, 2019; <http://eps-hep2019.eu> )*

### ***“Towards an update of the European Particle Physics Strategy”***

- Follow-up of the Open Symposium with an overview and open items
- Speakers to be assigned in due time, i.e. after the Open Symposium
- Agenda of 13 July for RECFA members:
  - Closed RECFA meeting in the morning at the conference venue (9:30-12:00)
  - Light lunch for RECFA members (12:00-14:00)
  - Open ECFA/EPS-HEPP session in the afternoon (14:00-18:00)
- A light registration process will appear



## ***ECFA Working Groups***

***ApPEC-ECFA-NuPECC Joint Seminar: next slides***

***ApPEC-ECFA-NuPECC working group on a Diversity Charter: report today***

***ECFA working group on Recognition of Individual Achievements in Large Collaborations: next slides***

***Working group on Higgs@FutureColliders: next slides***

## ApPEC-ECFA-NuPECC – Joint Seminar (<https://jenas-2019.lal.in2p3.fr>)

- Registration process is open for ECFA members, and will open for everybody from 1<sup>st</sup> of June.
- Opportunity to nominate additional to be added on the priority registration list, deadline 22<sup>nd</sup> of February
  - *Four names, all (excellent) CERN staff members*
- Per country one early career researcher can be added to the priority registration list, nominations to the ECFA chair, deadline 4<sup>th</sup> of March
- Suggestions on agenda are welcome, and taking into account the draft agenda, speakers can be nominated to the ECFA chair, deadline 4<sup>th</sup> of March

March 2nd, 2019

Report from ECFA Chairperson

# JENAS-2019

Joint ECFA-NuPECC-ApPEC Seminar  
jointly organized by LAL, IPNO, IRFU and LPNHE

**October 14-16, 2019**

Auditorium Pierre Lehmann, bât. 200, Faculté d'Orsay

### ECFA-NuPECC-ApPEC Organizing Board

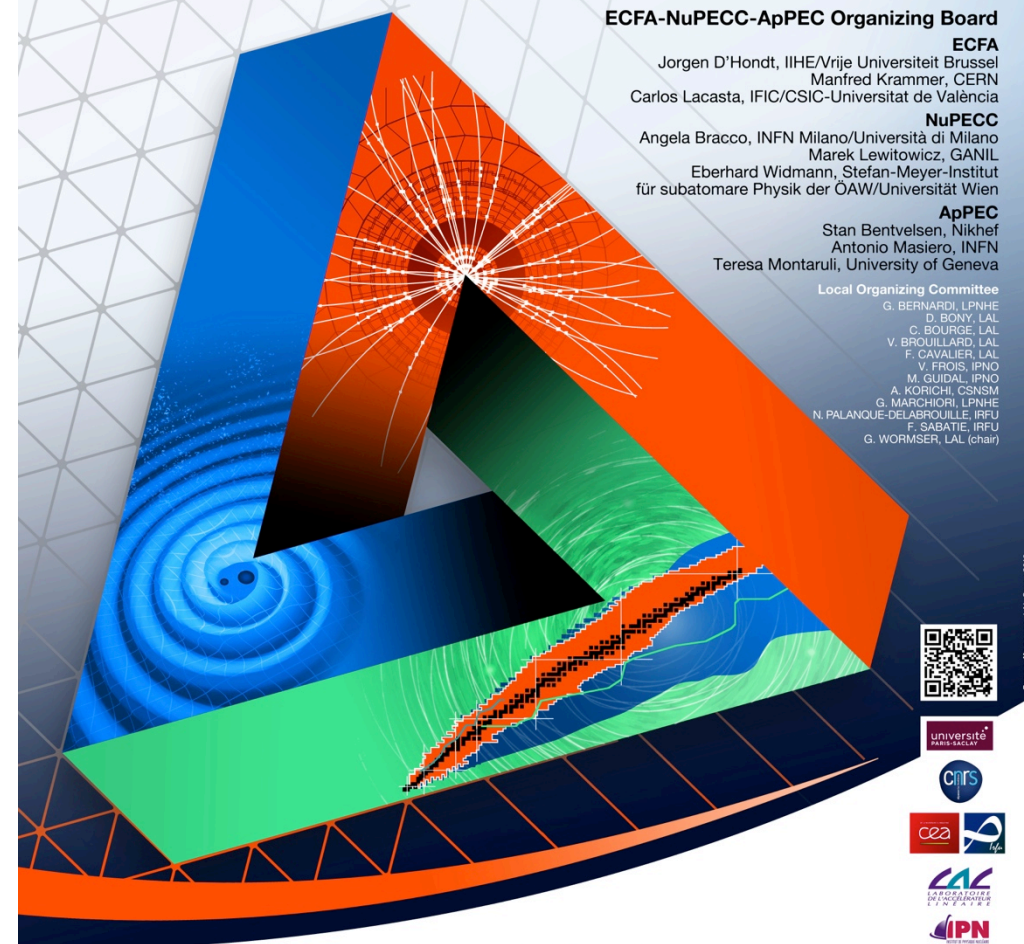
**ECFA**  
Jorgen D'Hondt, IIHE/Vrije Universiteit Brussel  
Manfred Kramer, CERN  
Carlos Lacasta, IFIC/CSIC-Universitat de València

**NuPECC**  
Angela Bracco, INFN Milano/Università di Milano  
Marek Lewitowicz, GANIL  
Eberhard Widmann, Stefan-Meyer-Institut für subatomare Physik der ÖAW/Universität Wien

**ApPEC**  
Stan Bentvelsen, Nikhef  
Antonio Masiero, INFN  
Teresa Montaruli, University of Geneva

### Local Organizing Committee

G. BERNARDI, LPNHE  
D. BONY, LAL  
C. BOURGE, LAL  
V. BROUILLARD, LAL  
F. CAVALIER, LAL  
V. FROIS, IPNO  
M. GUIDAL, IPNO  
A. KORICHI, CSNSM  
G. MARCHIORI, LPNHE  
N. PALANQUE-DELABROUILLE, IRFU  
F. SABATIE, IRFU  
G. WORSER, LAL (chair)





## Monday

14-Oct

*Session: welcome and overall strategies, to set the scene*

10:30	Welcome and presentation of local institutions	Professeur Sylvie Retailleau	President of Paris-Saclay University
11:00	Strategy ApPEC	NN	
11:30	Strategy ECFA	NN	
12:00	Strategy NuPECC	NN	
12:30	<i>Lunch</i>		

*Session: key physics highlights, key outstanding questions and most prominent challenges*

14:00	Physics highlights and challenges - astroparticle physics	NN	
14:30	Physics highlights and challenges - particle physics	NN	
15:00	Physics highlights and challenges - nuclear physics	NN	
15:30	<i>Break</i>		

*Session: Computing and Software situation, challenges and avenues for the future*

16:00	Computing and Software challenges	NN	Prepare the talk with a contact for ApPEC, ECFA and NuPECC each
16:30	Big Data challenges for Science	NN	Someone with an academic C&S view
17:00	Big Data challenges for Industry/Society	NN	Someone with a non-academic C&S view
17:30	Open Data for ApPEC-ECFA-NuPECC	NN	Prepare the talk with a contact for ApPEC, ECFA and NuPECC each
18:00	<i>Welcome cocktail</i>		





## Tuesday

15-Oct

*Session: Technology and Detector R&D (cannot cover everything, hence select key topics with synergies among the fields)*

09:00	Photo-sensors (TBC)	NN	Prepare the talk with a contact for ApPEC, ECFA and NuPECC each
09:30	Solid-state devices (TBC)	NN	Prepare the talk with a contact for ApPEC, ECFA and NuPECC each
10:00	Calorimetry (TBC)	NN	Prepare the talk with a contact for ApPEC, ECFA and NuPECC each
10:30	Break		
11:00	Cryogenics (TBC)	NN	Prepare the talk with a contact for ApPEC, ECFA and NuPECC each
11:30	Magnets (TBC)	NN	Prepare the talk with a contact for ApPEC, ECFA and NuPECC each
12:00	Accelerator technology (TBC)	NN	Prepare the talk with a contact for ApPEC, ECFA and NuPECC each
12:30	Lunch		

*Session: applications for society (intention to kick-off a joint ApPEC-ECFA-NuPECC folder on the topic, referring to domain specific information)*

14:00	Astroparticle physics for society	NN	
14:30	Particle Physics for society	NN	
15:00	Nuclear physics for society	NN	
15:30	Break		

*Session: education, outreach and science communication, conferences/workshops*

16:00	Education from master student to tenure	NN	Prepare the talk with a contact for ApPEC, ECFA and NuPECC each
16:30	How well are we exploring our synergies in conferences/workshops?	NN	Prepare the talk with a contact for ApPEC, ECFA and NuPECC each
17:00	Outreach: a united ApPEC-ECFA-NuPECC story to tell?	NN	Prepare the talk with a contact for ApPEC, ECFA and NuPECC each
17:30	placeholder		extra topic (not necessarily in this session)
18:00	Poster session		
19:00	Conference dinner		



## Wednesday

16-Oct

### Session: topical presentations

09:00 Neutrinos (EXP+TH)

NN

Prepare the talk with a contact for ApPEC, ECFA and NuPECC each

09:30 Dark Matter (EXP)

NN

Prepare the talk with a contact for ApPEC, ECFA and NuPECC each

10:00 Beyond Standard Symmetries (EXP)

NN

Prepare the talk with a contact for ApPEC, ECFA and NuPECC each

10:30 *Break*

11:00 Precise calculations (TH)

NN

Prepare the talk with a contact for ApPEC, ECFA and NuPECC each

11:30 Standard Model of cosmology and beyond (TH)

NN

12:00 Cosmology in the era of gravitational wave detection (EXP)

NN

12:30 *Lunch*

### Session: panel discussion on diversity

14:00 Panel on Diversity - public announcement of Diversity Charter

Panel members

15:00 Closing remarks

ApPEC-ECFA-  
NuPECC chairs

Highlighting the synergies discussed during the meeting

15:30 *End of meeting*



## ***ECFA Working group on Recognition of Individual achievements in collaborations***

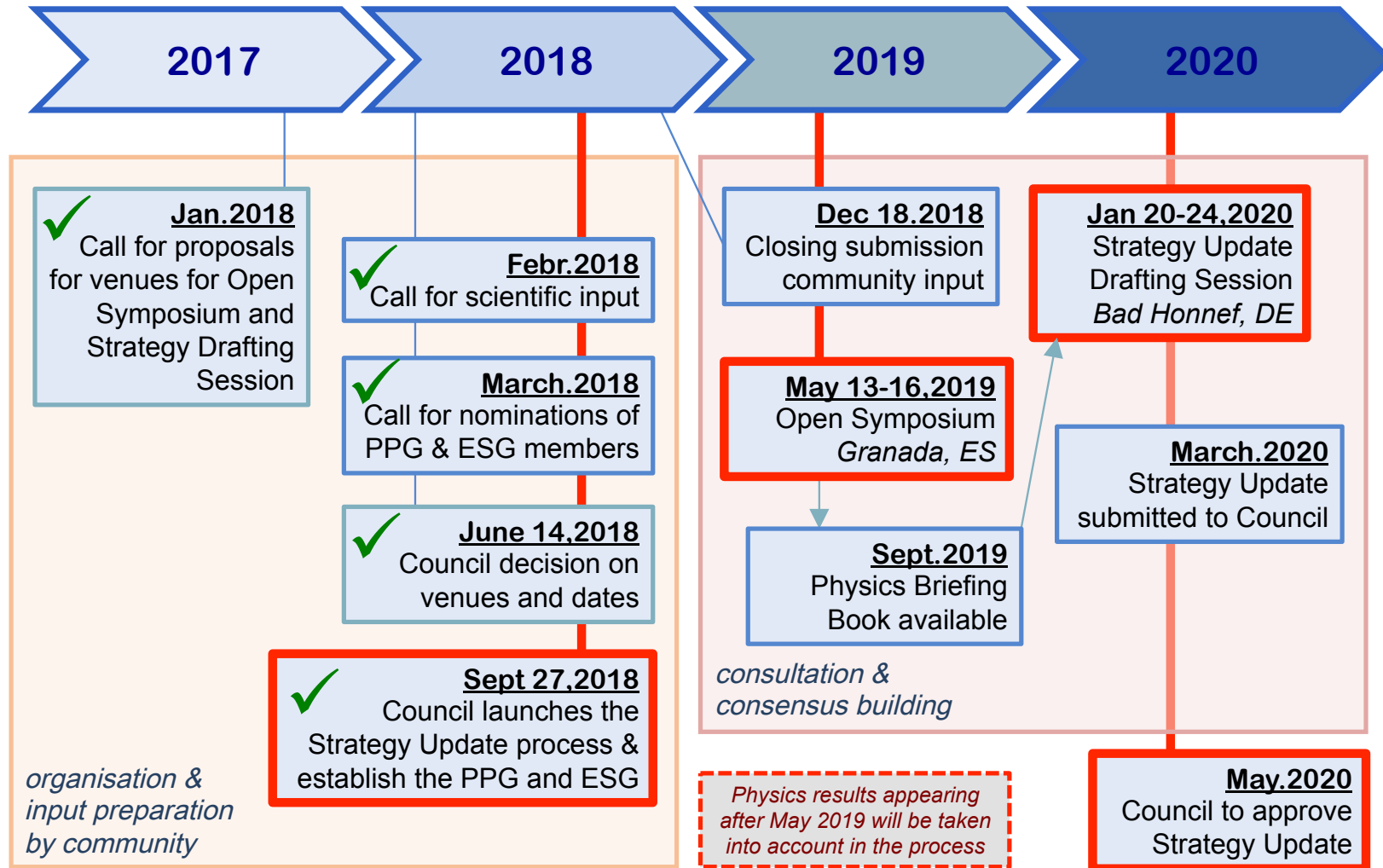
*(Members: Antonio Zoccoli, Dave Milstead, Peter Schleper, Roger Forty, Stan Bentvelsen, ECFA chair and secretary)*

- The working group delivered a presentation and discussion of the survey, and reported briefly in the ECFA Newsletter #2: a package of information that could be added to CDS
- The next step would be to dissolve the current working group, and to create a new working group with representatives from all interested scientific collaborations in particle physics (potentially as well astroparticle and nuclear physics towards an ApPEC-ECFA-NuPECC working group?)
- Key objectives within an advisory and exploratory mandate of the working group:
  - exchange and discuss best practices, and reflect on alternative or additional procedures
  - potentially perform a second survey in 2020-2021 to monitor the progress on the topic
  - however, the group should not be an ombudscommittee for individual problems
- The working group would openly communicate about its activities to the community at large
- The collaborations remain themselves responsible for the actions of the working group and to implement (or not) recommendations; ECFA would be there for example to facilitate, to invite the collaborations, to draft the initial mandate and potentially to assign (co-)chair(s)

**I would like to verify with you if we can move forward with these intentions**

## *Working group on Higgs@FutureColliders*

- In the context of exploring the Higgs sector, provide a coherent comparison of the reach with all future collider programmes proposed for the European Strategy update, and to project the information on a timeline
- For the benefit of the comparison, motivate the choice for an adequate interpretation framework (e.g. EFT,  $\kappa$ , ...) and apply it, and map the potential prerequisites related to the validity and use of such framework(s)
- In April 2019, provide a comprehensive and public report to inform the community.
- **Members: Aleandro Nisati** (Rome, chair), **Christoph Grojean** (DESY), **Fabio Maltoni** (Louvain/Bologna), **Jorge de Blas** (University of Padova), **Maria Cepeda** (CIEMAT), **Riccardo Rattazzi** (EPFL), **Wouter Verkerke** (NIKHEF), and ex-officio Keith Ellis and Beate Heinemann (PPG conveners for the EW sector), and ex-officio the ECFA Chair
- Since the start of the year we have weekly meetings, during which and amongst others we hear from the proponents of each of the future collider proposal and work towards a comprehensive overview



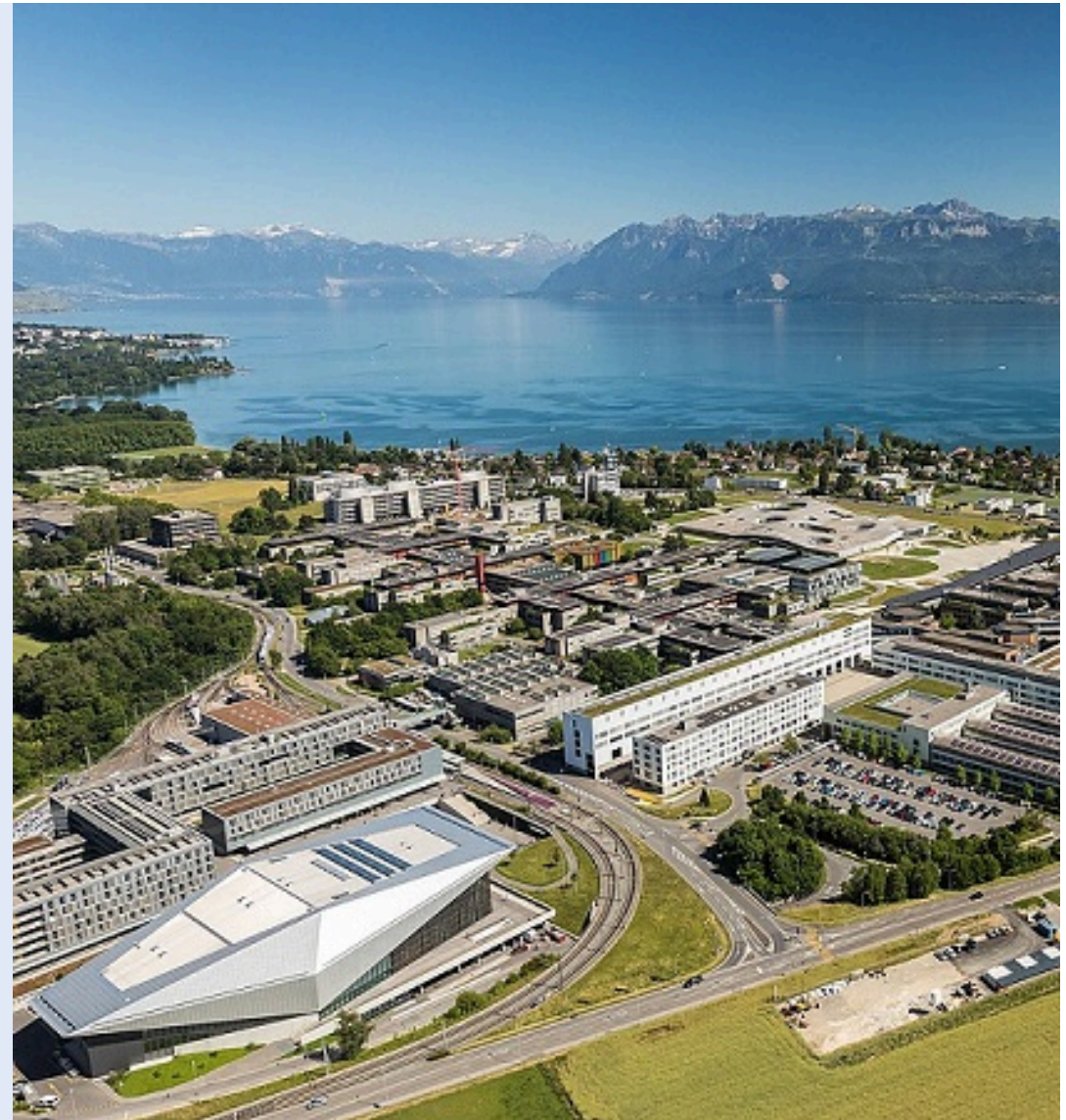
Website of the Open Symposium, Granada (ES): <https://cafpe.ugr.es/epps2019/>

## ***Linear Collider Community meeting***

***8-9 April 2019, Lausanne***

***(<https://indico.cern.ch/event/789524/>)***

- Three main objectives:
  - Initiate the formation of a strategy for future linear collider activities.
  - Discuss how to present the case for linear colliders at the Open Symposium in Granada.
  - Address the future organisation of the international linear collider activities beyond LCC.
- Registration process is open
- The meeting is arranged on the initiative of LCB/ICFA and is supported by ECFA.





## ***Croatia becomes Associate Member of CERN***

*When this becomes effective, Croatia will receive an invitation to join ECFA*



## *Communications*



***ECFA Newsletter #2***  
***available on the ECFA website:***  
***<https://ecfa.web.cern.ch>***

- Sincere thanks to everybody who contributed to the creation of this first Newsletter
- Such a newsletter can only be achieved with the input and the help of many colleagues
- Thank you!

**ECFA**  
European Committee for Future Accelerators



**ECFA Newsletter #2**

Following the Plenary ECFA meeting at CERN, 15-16 Nov 2018  
<https://indico.cern.ch/event/759130/>  
Winter 2018

***ECFA Newsletter #2***  
***available on the ECFA website:***

**<https://ecfa.web.cern.ch>**

- An email list is created to which everyone can subscribe to receive the newsletters  
<https://e-groups.cern.ch/e-groups/Egroup.do?egroupId=10319139&AI>
- This was communicated via the CERN-EP list and to the ECFA list, please stimulate the members of your community to subscribe.
- This will allow us as well to verify which communities are more present on the list.
- In total ~260 persons registered (including ECFA members)
- Please stimulate your community to register

**ECFA**  
European Committee for Future Accelerators



**ECFA Newsletter #2**

Following the Plenary ECFA meeting at CERN, 15-16 Nov 2018  
<https://indico.cern.ch/event/759130/>  
Winter 2018



***END***