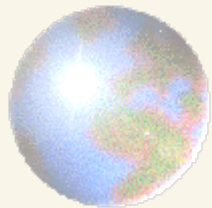


*IUPAP International Union of
Pure and Applied Physics*

C11

Commission of Particles and Fields



Gregor Herten

Freiburg University



ICSU – International Council of Science

*27 Unions
73 Scientific
Nat.Members*

*IUPAP – International Union of
Pure and Applied Physics*

20 Commissions

C11 – Commission of Particles and Fields

13+2 Members

NC – National Contacts

*55 Contacts
+35 through ICTP*

www.iupap.org,

www.iupap.org/commissions/c11



C11 Members Oct. 2005 – Oct. 2008

G. Herten	Germany	Chair
P. McBride	USA	Vice-Chair
T. Yamanaka	Japan	Secretary

M. Aguilar-Benitez	Spain
W. Carither	USA
J.W.A. Cleymans	South Africa
W. Li	China
A. Olchevski	Russia
R. Petronzio	Italy
D. Saxon	UK
S. Stapnes	Norway
G. Taylor	Australia
G. Wormser	France

Associate Members

D.-O. Riska, C12
Sureshi Tonwar, C4



C11 Activities

Oversight and sponsorship of ICHEP and Lepton-Photon.

ICHEP-06 Moscow

LP-07 Daegu

ICHEP-08 Philadelphia

LP-09 Hamburg

ICHEP-10 Paris

IUPAP Young Scientist Prize

- Outstanding contribution to Particle Physics

- Up to 8 years of research after Ph.D.

- Search committee will be set up by C11.

- Given every 2 years, first prize at ICHEP 08



C11 Working Group on Authorship

- C11 formed a WG to
 - Examine current practices of authorship in HEP and other fields
 - Explore potential modifications and alternatives
- WG report available at:
<http://docdb.fnal.gov/C11-public/DocDB/ShowDocument?docid=4>
- Report has been discussed by C11 and approved

Recommendations:

- Physics publications, published Scientific and Technical Notes
- Belle collaboration is seen as a good example
- Option to create sub-groups in large collaborations

Whatever measures one introduces – the author lists of LHC experiments will never be below a few hundred.



International Instrumentation Conference

C11 sees a strong need for an International Instrumentation Conference in Particle Physics sponsored by IUPAP for various reasons:

- Global projects require a truly international conference.
- HEP methods are being used in other fields (medicine, photon science, astrophysics). An international conference will help to keep the center of activity and competence in our field.
- Large participation of PP at other instrumentation conferences, e.g. IEEE. It should continue, but it demonstrates the need for a major instrumentation conference in PP.
- No intention to suppress successful, existing regionally organized conferences on instrumentation.



International Instrumentation Conference

C11 proposal:

- Discuss with organizers of successful existing instrumentation conferences whether they support the transition to a truly international conference. Clearly a better solution than creating a completely new conference.
- 2-year cycle of International Instrumentation Conference in phase with Lepton-Photon
- Plan to have the first International Conference on Instrumentation in Particle Physics (ICIPP) in 2009 at a major particle physics laboratory.



Assessment of scientific achievements in PP

Motivation:

- Widely used procedures (publication list and impact factors) not suitable in experimental Particle Physics .
- Disadvantage for particle physicists in competition with scientists of other fields.
- Group leaders in PP have difficulties to convince colleagues in other fields that the assessment should be based on **more factors**: internal notes, talks, letters of recommendations, physics coordinator position, ...



Assessment of scientific achievements in PP

Goal:

We need a catalogue of objective criteria, transparent to people outside of PP, for the assessment of scientific achievements in large collaborations. Intended for:

- Decision makers at universities, laboratories, prize committees.
- Experiments: to adapt their procedures to allow excellent physicists to obtain a track record, which is understood outside PP.
- Young particle physicists: to have a bench mark for their scientific work.
- Group leaders in PP: to convince colleagues in other fields.



Assessment of scientific achievements in PP

Actions:

- C11 plans to set-up a working group:
 - members should be particle physicists with experience in selection, promotion, prize committees, young physicists, representatives from large experiments, non - particle physicist
 - WG could collect information: current experience at labs and universities, which criteria have been used successfully? How can this be implemented inside large collaborations?
 - Propose a catalogue of criteria for assessment.