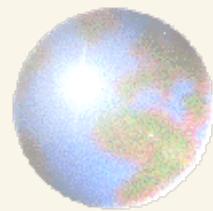


*IUPAP*

*International Union of  
Pure and Applied Physics*

*C11*

*Commission of Particles and Fields*



Gregor Herten

Freiburg University



*27 Unions*  
*73 Scientific  
Nat. Members*

***ICSU – International Council of Science***

***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](http://www.iupap.org),

[www.iupap.org/commissions/c11](http://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:

- ➊ Widely used procedures (publication list and impact factors) not suitable in experimental Particle Physics .
- ➋ Disadvantage for particle physicists in competition with scientists of other fields.
- ➌ 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.