

## **C11 Report to IUPAP Commission Chairs and Executive Committee**

*September 2021*

*Heidi Schellman, Chair IUPAP-C11 Commission*

### **C11 Officers:**

**Chair: Heidi Schellman** (2011) (2014) (2017) United States

**Vice-Chair: Mihoko Nojiri** (2014) (2017) Canada

**Secretary: Florencia Canelli** (2014) (2017) Switzerland

### **C11 Members:**

**Zhi-Zhong Xing** (2014) (2017) China

**Srubabati Goswami** (2017) India

**Dezso Horvath** (2014) (2017) Hungary

**Azwinndini Muronga** (2017) South Africa

**Johan Rathsmann** (2014)(2017) Sweden

**Antonio Zoccoli** (2017) Italy

**Raymond Volkas** (2014) (2017) Australia

**Marie-Helene Schune** (2017) France

**Sergio F. Novaes** (2011) (2014)(2017) Brazil

**Alexander Sorin** (2017) Russian Federation

**Brigitte Vachon** (2017) Canada

### **C11 Associate members:**

Sunil Gupta (C4), Eugenio Nappi (C12, continuing)

Since the General Assembly in October 2017, the Commission has concentrated on 4 efforts.

- 1) Selection of the recipients for the C11 Young Scientist Prize
- 2) Engagement with conference organizers to implement the motions on diversity enacted at the General Assembly
- 3) The Neutrino Panel mandated by the General Assembly
- 4) Helping support the organization of virtual conferences

The Commission met by zoom at the ICHEP2020 meeting in July 2020, in special meetings with the TIPP conference organization on May 25, 2021 and June 23, 2021 and had our annual meeting via zoom on August 17, 2021.

## **Implementation of General Assembly Resolution on Diversity**

The ICHEP2016 conference set a benchmark for our field, with 50% of plenary speakers being female and an extremely well attended session on inclusion in HEP. This and the General Assembly resolution have been communicated to the organizers of future conferences, along with recommendations on best practices. In particular, proper reporting on gender and national balance requires that that data be acquired at registration.

Conferences are now also expected to have a posted anti-harassment policy. It is important that the policy and procedures be clear and communicated to participants.

## **Implementation of the General Assembly Resolution Implementing a Neutrino Panel**

The 29<sup>th</sup> General Assembly RESOLVED to establish the Neutrino Panel, composed of nominees of C4, C11, C12, WG1, WG9 and WG10, under the supervision of those Commissions and Working Groups and coordinated by C11. The Neutrino Panel has a 3-year mandate “to promote international cooperation in the development of an experimental program to study the properties of neutrinos and to promote international collaboration in the development of future neutrino experiments to establish the properties of neutrinos.”

The Commissions and working groups have met by phone and composed a roster of neutrino physicists spanning the full range of neutrino physics. 3 co-chairs, Nigel Smith, Takaaki Kajita and Manfred Lindner have assembled a committee representative of all aspects of neutrino physics with input from the commissions and working groups.

The neutrino panel has circulated a draft of the final report for community input and is now finalizing it to reflect that input with a goal of producing the final report by Oct. 15. It will be available at <https://www.iupapneutrinopanel.org/> and through the arxiv.

## **Conferences Supervision**

Category B: CHEP – offered remotely

Category B: LHCP – remote

Category A: Lepton Photon 2021 delayed to January 2022

Category C: TIPP – occurred virtually in May 2021

## Upcoming conferences

### Category A:

Lepton Photon 2021 (Manchester, UK, January 10-14, 2022)

International Conference on High Energy Physics 2022 (Bologna, Italy, July 6-13, 2022)

Lepton Photon 2023 (Melbourne, AU, dates TBA )

International Conference on High Energy Physics 2024 (Prague, CZ, dates TBA)

### Category B:

Large Hadron Collider Conference 2022 (Taipei, Taiwan, May 16-21, 2022)

International Conference on Computing in HEP (Jefferson Lab, Virginia, USA, postponed to May 2023)

Neutrino 2022 (Seoul, Korea, May 30-June 4, 2022)

TIPP 2023 (Cape Town, South Africa, May 22-26, 2023)

The Neutrino conference and the Baldin Seminar occur biannually and have been sponsored by C11 for many years. Technology and Instrumentation in Particle Physics (TIPP) occurs every 3 years while the International Conference on Particle Physics (IPAC) occurs annually. IPAC generally does not receive financial support.

### TIPP Governance:

The International Conference on Technology and Instrumentation in Particle Physics (TIPP) is one of 3 conferences that C11 is involved in site selection for. Because it is offered every 3 years, it has had some problems with continuity. C11 requested that the TIPP community form a standing steering committee, formed of leaders of previous conferences, to work with C11 on site selection and provide continuity in the organization. The TIPP community has formed such a steering committee and worked jointly with C11 in site selection for TIPP 2023.

### *Observations from the conferences*

Large Physics laboratories have the technical capacity to support successful online conferences.

Early on, we received very positive reports from scientists in emerging countries who were able to attend conferences they had previously been unable to attend in person. As the pandemic dragged on, some of the early enthusiasm has waned as people are typically expected to perform normal academic and family duties and attend a conference at the same time.

All talks should be recorded (individually if possible) and posted online. Professional closed-captioning is feasible and increases accessibility. The increased participation that recording allowed was unprecedented and should be retained.

Frequent breaks, a shortened daily schedule and, if necessary, a longer length in days are needed for an online conference. Without the need for physical rooms, there can be many more sessions in parallel.

Particle Physics held a Virtual Meeting on Virtual Meetings in May 2021. The agenda and talks are at <https://indico.cern.ch/event/1026363/> and it was summarized in an article "[Learning from the Pandemic: the Future of Meetings in HEP and Beyond](#)", Neubauer et al, e-Print: [2106.15783](https://arxiv.org/abs/2106.15783) [physics.soc-ph].

There are also strong environmental reasons to consider reducing the amount of international travel associated with conferences.

The use of commercial conference centers should perhaps be reconsidered. One major hurdle for several conferences was substantial cancellation fees for venues. These were mitigated by agreeing to postpone rather than cancel the use of the venue. But going forward, it is likely that physical attendance at conferences will decrease while virtual attendance will continue to be a useful option. Use of smaller academic facilities, which have lower costs, large numbers of smaller rooms, and better IT infrastructure for recording and streaming video may become the norm.

Organizers might consider charging a nominal fee (50 EU) to remote speakers to cover the costs of IT, proceedings and close captioning with no fee remote registrants without a speaking role.

## **Conference Solicitation**

In 2018, C11 prepared formal guidelines for conferences and, via the IUPAP website, solicited bids for LP2019 and ICHEP2022.

<http://iupap.org/commissions/c11-particles-and-fields/c11-conference-guidelines/>

These guidelines provide advice on a successful conference bid and streamlined the process considerably. In addition to the IUPAP mandates on freedom of access and diversity, we ask about the availability of day care as accompanying persons are now very likely to be children.

The solicitation garnered around 10 approaches from local tourism and conference boards. They were informed that formal approaches needed to come from local universities and given the names of local contacts. This resulted in at least one successful proposal that might otherwise not have happened if the initial connection between the conference board and the institutions had not been made.

**Future conferences:**

IUPAP C11, Particles and Fields, is soliciting applications from institutions interested in hosting the Lepton Photon Symposium in 2025 and the “Rochester Conference”, ICHEP in 2026. Interested parties should contact the C11 chair. Written applications will be accepted until June 1, 2022.

The application should contain information about the participating institutions, the local organizing committee, likely costs and locations and alternative funding sources. We expect to make a final decision on the locations at our meeting in August 2021. Please see <http://iupap.org/commissions/c11-particles-and-fields/c11-conference-guidelines/> for our full conference guidelines.