

### **WG1: International Committee for Future Accelerators (ICFA)**

ICFA has continued having a very active pace of activities, with a virtual meeting in March and the first in-person meeting since early 2020 in Melbourne Australia in July. A continued focus of activity is international coordination for a potential International Linear Collider. The seven ICFA panels continue to serve very valuable functions for the community across a range of topics from accelerator beam dynamics to instrumentation and data preservation. ICFA has additionally engaged community leaders to discuss a potential panel on Software, Data and Computing for HEP. Finally, the first ICFA Seminar in six years is planned for Nov. 28–Dec. 1 at DESY, Hamburg.

### **WG5: Women in Physics**

The Working group has distributed travel grants and contributed towards the organisation of the 2023 International Conference Women on Physics. The conference was held virtually from July 10–14, with nearly 500 delegates from 70 countries, including about 200 hundred participants from India. It was co-organized with the Gender in Physics Working Group (GIPWG) of Indian Physics Association (IPA) and the Tata Institute of Fundamental Research (TIFR) and was hosted by the Homi Bhabha Centre for Science Education (HBCSE) of TIFR. For further details, consult the [full report](#).

### **WG7: International Committee on Ultrahigh Intensity Lasers**

The 2023 activities of the IUPAP Working Group 7, the International Committee on Ultrahigh Intensity Lasers (ICUIL), were mainly devoted to the organisation of its conference and to the renewal of its membership. For further details, consult the [full report](#).

### **WG9: International Cooperation in Nuclear Physics (ICNP)**

The activity in this period mainly concerned two issues: the update of Report 41 and the organisation of the annual meeting which took place on June 3, 2023 in Avignon (France). For further details, consult the [full report](#).

### **WG11: Gravitational Wave International Committee (GWIC)**

For further details, consult the [full report](#).

### **WG13: Newtonian Constant of Gravitation**

### **WG14: Accelerator Science**

The working group has been involved in the following events and activities during the period:

- Joint ICTP-IAEA Advanced Workshop on Future Trends in Multidisciplinary Ion Beam Analysis (10-14 October 2022 – Vienna, Austria)– endorsed by IUPAP. About 20 participants. Given a short presentation on IUPAP and in particular WG14.
- International Particle Accelerator Conference - IPAC23, 7–12 May 2023, Venice, Italy. The conference was supported by IUPAP. Largest number of participants ever:
  - ~1660 participants from 37 countries: 1800 papers, ~100 student grants, 116 industrial exhibitors. For the first time an IPAC in Europe included an Equal opportunity session.
- International Accelerator School on Superconducting Science and Technology for Particle Accelerators, 10–20 July 2023, Saskatoon, Canada. The conference was supported by IUPAP. About 30 students.
- WG14 Web page on-line (including links to on-line courses in accelerator science).

### **WG15: Soft Matter**

The Working Group was involved in the organisation of the International Soft Matter Conference (ISMC) held in Osaka, Japan, September 4-8, 2023. During the conference the first meeting of the Soft Matter Association of Asia and Oceania was held, which will implement the mandate of IUPAP WG-15 in the region. The Soft Matter Association of the Americas (SMAA) was formed. The objectives of SMAA are the same as the mandate of IUPAP WG15 but focused on the Americas. For further details, consult the [full report](#).

### **WG16: Physics and Industry**

The Chair, Christophe Rossel (Switzerland), will give his presentation via Zoom on 5 October.

### **WG17: Centenary of IUPAP**

The Chair, Monica Altarelli (Switzerland), will give her presentation via Zoom on 5 October.

### **WG18: Ethics**

The Chair, Ana María Cetto (Mexico), will give her presentation via Zoom on 5 October.

### **WG19: Quantum Science and Technology**

The working group met virtually to discuss the question of creating a new commission on quantum information science and technology. There was broad consensus that a new commission is needed for several reasons. For

details, see the [full report](#) by the Chair.

**WG20: Open Science**

The membership of the working group is not yet established. Prof. Alex Hansen (Norway) has accepted to be the chair of the working group and the aim is to deliver a full report by the in-person IUPAP General Assembly in China in October 2024.