

IUPAP representation on other organizations:

-IUPAP is a Category 1 member of the International Science Council ([ISC](#)). As such, it participates in its GA and other ISC (virtual) meetings and is invited to vote or give advice on various issues. IUPAP is usually represented by its President in all these activities. The proposals presented to the ISC are discussed by C1 or the EC. Then, the ISC established several committees to look at specific issues on which IUPAP has representatives. They are included in what follows. IUPAP does not receive regular reports of the activities of these representatives.

-Committee on Space Research ([COSPAR](#)). Established by ICSu (now part of ISC) in 1958, it initially played an important role as an open bridge between East and West for cooperation in space. When this role became less prominent with the decline in rivalry between the two blocs, COSPAR, as an interdisciplinary scientific organization, focused its objectives on the progress of all kinds of research carried out with the use of space means. It is not clear that there is a formal link between IUPAP and COSPAR, although Pietro Ubertini (former chair of C19) is currently one of COSPAR's vice-presidents.

- Scientific Committee on Solar-Terrestrial Physics ([SCOSTEP](#)). Established by ICSu in 1966 as the Inter-Union Commission on Solar-Terrestrial Physics (IUCSTP), in 1978 it became a Scientific Committee of ICSU charged with the long-term responsibility of promoting international interdisciplinary programs of finite duration in solar-terrestrial physics. Its three major activities are: long-term scientific programs, capacity building and public outreach. IUPAP has a representative on the Bureau of SCOSTEP. In 2023 Cristina Mandrini (Argentina) replaced P. K. Mohanty (India) in this capacity. Cristina is not related to any of IUPAP's structures, and it is not clear how her presence on the Bureau represents IUPAP.

-Scientific Committee of Problems of the Environment ([SCOPE](#)). Currently SCOPE is a worldwide network of scientists and scientific institutions which develops syntheses and reviews of scientific knowledge on current or potential environmental issues. SCOPE was originally established as a committee by ICSU and was previously an [ISC Affiliated Body](#). According to the [SCOPE's website](#), the President of its Executive Committee is Jon Samseth who is, in principle, representing IUPAP. Jon is presented as the Chair of IUPAP's WG on Energy, a WG that was dissolved some years ago. Jon Samseth happens to be now a member of WG21 on Physics for Climate Change Action and Sustainable Development. In any case, the relation of IUPAP with SCOPE needs to be regularized.

-ISC's Committee on Data ([CODATA](#)). It exists to promote global collaboration to improve the availability and usability of data for all areas of research. CODATA works also to advance the interoperability and the usability of data: research data should be intelligently open or FAIR. The CODATA Strategic Plan identifies three priority areas: 1) promoting principles, policies and practices for Open Data and Open Science; 2) advancing the frontiers of data science; 3) building capacity for Open Science. CODATA achieves these objectives through a number of standing committees and strategic

executive led initiatives, and through its Task Groups and Working Groups. IUPAP is a member of CODATA. The IUPAP CODATA Delegate is Jens Vigen and the Digital Representation of Units of Measurement (DRUM) ambassador is Eric Shirley, currently the Vice-Chair of C2 (Commission on Symbols, Units, Nomenclature, Atomic Masses and Fundamental Constants). Cyrus Walther, former chair of AC5 (Affiliated Commission of Physics Students) who is currently a member of WG16 on Physics and Industry, was nominated by IUPAP to serve on CODATA's Executive Committee for the period 2023-2025. He is currently acting in that capacity. DRUM is a Task Group (TG) which has the objective to work with the International Science Unions to raise awareness of, educate, and enable their communities in the understanding and implementation of digital unit representation. Eric Shirley is not listed among the [TG members](#). Maybe the list has not been updated, but for sure someone from C2 should be involved with this TG. Then, Jens and Cyrus are in charge of a TG titled "Advancing Data Science for Sustainability" which looks to enhance the knowledge and awareness of the community as well as high-level decision-makers on approaches to the use of data science for sustainability. Finally, there is another TG titled "Fundamental Physical Constants" (TGFC) which aims to periodically provide the scientific and technological communities with a self-consistent set of internationally recommended values of the basic constants and conversion factors of physics and chemistry based on all relevant data available at a given point in time. Peter J. Mohr, who was chair of C2 in the past, is a member of TGFC.

-Joint Committee for Guides in Metrology ([JCGM](#)). The tasks of the JCGM are to maintain and promote the use of the *Guide to the Expression of Uncertainty in Measurement* (known as the GUM) and the *International Vocabulary of Metrology – Basic and General Concepts and Associated Terms* (known as the VIM). The JCGM has taken over responsibility for these two documents from ISO TAG 4, who originally published them under the auspices of the BIPM, IEC, IFCC, ISO, IUPAC, IUPAP and OIML. The JCGM operates through two working groups: the JCGM-WG1, with responsibility for the GUM, and the JCGM-WG2, with responsibility for the VIM. IUPAP is a member of JCGM and as such it participates in its GA. Usually it is represented by the Chair of C2. Eric Shirley (Vice-Chair of C2) represents IUPAP on JCGM-WG1. It is important to note that the Director of the the Bureau International des Poids et Mesures (BIPM) is an *ex-officio* member of C2.

-Standing Committee for Gender Equality in Science ([SCGES](#)). IUPAP is a founding partner of this committee which grew out of the Gender Gap in STEM project and now has over 25 members. IUPAP is represented by the VP for DEI (Gillian Butcher) and the Associate Secretary General (Rudzani Nemutudi) on SCGES. Gillian participates in the [Annual Report Working Group](#).

- Inter-Union Commission on the History and Philosophy of Physics ([IUCHPP](#)). In May 2021, the Division of History of Science and Technology of the International Union of History and Philosophy of Science and Technology ([IUHPST/DHST](#)) and the International Union of Pure and Applied Physics (IUPAP) decided to join forces to promote research in the history and philosophy of physics. A [Memorandum of Understanding](#) was signed by the presidents of IUHPST/DHST and of IUPAP establishing

the bases for the existence IUCHPP. The 30th IUPAP General Assembly held in October 2021 approved the creation of IUCHPP and, at the same time, decided that this Commission became the IUPAP Affiliated Commission on the History and Philosophy of Physics ([AC6](#)). The MoU established that the Board of IUCHPP would consist of 6 officers, 3 appointed by IUPAP and 3 elected during the IUHPST/DHST quadrennial Congresses. The MoU did not mention explicitly the terms of reference of the members of the board. The current ones were appointed in 2021. We might need to renew some of them soon.