

Activities of Commission C20: Computational Physics

C20 Commission website: <https://iupap.org/who-we-are/internal-organization/commissions/c20-computational-physics/>

Mission: The Commission on Computational Physics (C20) was established by the International Union of Pure and Applied Physics in 1996 to promote the exchange of information and views among the members of the international community of physicists in the area of Computational studies of problems originating in or relevant to physics.

The commission began its work in 2025 by proposing the following professors as associate members:

Artem Oganov (Russia)

Nicola Marzari (Switzerland)

Arash Nikoubashman (Germany)

The proposal was submitted to the governing bodies of IUPAP, and after receiving approval, they were admitted as associate members.

The C20 committee received 17 nominations for the IUPAP Early Career Scientist Prize in Computational Physics 2025.

2024-2025 Activities:

- Early Career Scientist Prize in Computational Physics:
 - 2024 awardee: [Dr. Yang Zhang](#), University of Tennessee, Knoxville, USA
 - Awarded @ CCP2024 in Thessaloniki, Greece
 - *For his significant and innovative achievements in computational study of topological bands and quantum anomalous Hall states in two-dimensional semiconductors.*
 - 2025 awardee : [Prof. Felipe H. da Jornada](#), Stanford University, USA
 - To be announced @ CCP2025 in Knoxville, USA
 - *For developing first-principles methods and open-source codes that advanced the understanding of excited-state phenomena in two-dimensional materials.*
 - 2026 award nomination
 - To be announced in CCP2025 in Knoxville, USA
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- IUPAP Conference on Computational Physics (Type A)
 - CCP2024 to be hosted by Aristotle University, Thessaloniki, Greece
 - Date: Jul. 7 -12, 2024

Attendees

180

Attendees giving invited papers

22

Women participating

36

Women giving invited papers

7

Countries participating

35

Participants from outside the host country

150

Number of members of the International organizing committee

10

Number of female members of the International organizing committee

2

Scientists from developing/disadvantaged countries receiving travel assistance

10 (airfare, hotel, free registration fee), 5 (hotel, free registration), 5(airfare, sponsorship of Aegean airlines)

- CCP2025 to be held in Knoxville, USA
- Due to delays in the DOE's approval to the organizers of our commission's annual conference, the organisation had to postpone the conference dates and format. It is now scheduled to take place online from 3 to 7 November 2025.
 - Will be coordinated with APS DCOMP
- CCP2026 July 19- July 23, to be held in Seoul, Korea

Officers and Members:

Alfonso Muñoz González (Chair) Spain

Valentino R. Cooper (Vice–Chair) USA

Regina Maphanga (Secretary)

Veronica Viladosola

Derek Leinweber

Gian Marco Rignanese

Suhuai Wei

Anthony Maggs

Reza Ejtehadi

Aaron Golden

Enzo Marinari

Shinji Tsuneyuki

Young-Woo Son

Ching-Ming Wei

Associate Members:

Arash Nikoubashman (Associate Member)

Artem Oganov (Associate Member)

Nicola Marzari (Associate Member)