

22nd International Workshop on Computational Nanotechnologies

June 12th-16th 2023 Barcelona

The [IWCN](#) is the leading forum for discussions on current trends and future directions for nanotechnology computations. The venue will be [Casa Convalescencia](#), a modernist building in the center of [Barcelona city](#).

2nd Call for papers

<https://iwcn2023.uab.es>



IMPORTANT DEADLINES:

Abstract [submission](#): **February 10th 2023**
Acceptance notification: **March 10th 2023**
Early bird [registration](#): **April 19th 2023**

AUTHORS: Prospective authors are invited to [submit](#) a 2-page abstract, 1 page of text and 1 of figures, for oral or poster presentations on the [topics](#):

- 1.- Multiscale and multiphysics simulations
- 2.- Simulation of nanodevice processing and performance
- 3.- Electronic structure calculations
- 4.- Computational design and evaluation of engineered nanomaterials/nanostructures
- 5.- Simulations of electronic, optical and mechanical properties of nanostructures
- 6.- Simulations of electronic, thermal, spin and molecular transport processes
- 7.- First principles calculations in the context of transport studies
- 8.- Novel architectures for nanodevices

SATELLITE WORKSHOP: The 5th edition of the [International Wigner Workshop](#) (IWW) will take place as a satellite workshop at the beginning of the conference, from June 11-12, 2023, at the same [venue](#) as the IWCN.

INVITED SPEAKERS

Jesus Carrete
TU Wien (Austria)
Carlos H. Diaz
Senior Director in R&D (TSMC)
David K. Ferry
Arizona State University (USA)
Lado Filipovic
Inst. for Microelectr. (Austria)
Kersti Hermansson
Uppsala University (Sweden)
Nobuya Mori
Osaka University (Japan)
Maurizia Palummo
University Tor Vergata (Italy)
Alison B. Walker
University of Bath (UK)

SPECIAL SESSION ON QUANTUM TRANSPORT SIMULATORS

Jose Hugo Garcia
ICN2 (Spain)
Yong-Hoon Kim
KAIST (Republic of Korea)
Gerhard Klimeck
Purdue University (USA)
Thomas Kloss
Neel Institute (France)
Pablo Ordejon
ICN2 (Spain)

GALA DINNER SPEAKER

Jordi Mompert
Director of Research at FCB



The gala dinner will take place at Palau Requesens, the largest Gothic palace in Barcelona, built on top of the (2000 year-old) Roman wall, and cultural asset of national interest.