

PSI-K 2022 CONFERENCE

<https://www.psik2022.net>



August 22-25, 2022

SwissTech Convention Center, EPFL, Lausanne (Switzerland)

Psi-k 2022 is the 6th general conference for the worldwide Psi-k community. Typically held every 5 years, this event is the largest worldwide in first-principles simulations.

With more than 1000 participants attending the past 2010 and 2015 editions, it promises to be the most exciting, defining event in the field, offering an intense but enjoyable atmosphere, in addition to a chance to explore the beautiful region around Lausanne and Lake Geneva.

Some key topics

Density and density-matrix functional theories
Novel developments in diagrammatic many-body theory
Strong correlations beyond local approximations
Open quantum systems and non-adiabatic dynamics
Emerging aspects of electron-phonon interactions
Reduced-scaling methods
Statistics and configuration sampling
Electrified solid-liquid interfaces
Software engineering
High-throughput screening and data analytics
Ab initio guided design of structural materials
Functional materials and devices
Magnetism and spintronics
Surfaces and interfaces at realistic conditions
New physics in 2D materials and van der Waals multilayers
Molecules, macromolecules and biomolecules
Simulations across domains

All 38 symposia detailed at <https://www.psik2022.net>

Plenary speakers

- Gábor Csányi
University of Cambridge, UK
- Feliciano Giustino
University of Texas at Austin, USA
- Francesco Mauri
University of Rome Sapienza, Italy
- Angelos Michaelides
University of Cambridge, UK
- Lucia Reining
Ecole Polytechnique, France
- Nicola Spaldin
ETH Zurich, Switzerland

- 3.5 days
Monday afternoon to Thursday evening
- 6 plenary talks
- 38 symposia
- 6 parallel sessions
- 120+ invited talks
- 170+ contributed talks

Important dates

- May 31, 2022**
Early-bird registration deadline
Abstract submission deadline,
to be considered for contributed talks
- June 30, 2022**
Regular registration deadline
Abstract submission deadline, posters only
- July 31, 2022**
Late registration deadline

Conference Chair

Nicola Marzari, EPFL

