

# CCP2018

## XXX IUPAP Conference on Computational Physics

July 29 - August 2, 2018 | University of California, Davis, USA

[ccp2018.physics.ucdavis.edu](http://ccp2018.physics.ucdavis.edu)

### PLENARY SPEAKERS

Alán Aspuru-Guzik	Harvard U, USA
Michael Biercuk	U Sydney, Australia
Silke Biermann	Ecole Polytechnique, France
Duncan Brown	Syracuse U, USA
Tian Cui	Jilin U, China
Emanuel Gull	U Michigan, USA
Gus Hart	Brigham Young U, USA
Phil Hopkins	Caltech, USA
Ribhu Kaul	U Kentucky, USA
Noa Marom	Carnegie Mellon U, USA
Matthias Scheffler	Fritz Haber Institute, Germany
Matthias Troyer	Microsoft Corp and ETH Zurich
Tony Tyson	UC Davis, USA
Christopher Wolverton	Northwestern U, USA
Julia Yeomans	Oxford U, UK

### INVITED SPEAKERS

George Batrouni	U Nice Sophia Antipolis, France
Sergio Boixo	Google, USA
Vasily Bulatov	Lawrence Livermore Nat'l Lab, USA
James Chelikowsky	U Texas, USA
Joshua Dolence	Los Alamos Nat'l Lab, USA
Nicolas Gauger	Technische U Kaiserslauten, Germany
Koblar Jackson	Central Michigan U, USA
Michelle Johannes	U.S. Naval Research Lab, USA
Stephen Jordan	Microsoft Research, USA
Helmut Katzgraber	Texas A&M U, USA
Ehsan Khatami	San Jose State U, USA
Zi Yang Meng	Chinese Academy of Sciences, China
Peter Nugent	Lawrence Berkeley Nat'l Lab, USA
Yuko Okamoto	Nagoya U, Japan
John Pask	Lawrence Livermore Nat'l Lab, USA
John Rehr	U Washington, USA
Mark Ritter	IBM T.J. Watson Research Center, USA
Jack Wells	Oak Ridge Nat'l Lab, USA
Renata Wentzcovitch	Columbia U, USA
Eva Zurek	SUNY Buffalo, USA

### CHAIR

Barry Klein (UC Davis)

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Warren Pickett (UC Davis)  
Richard Scalettar (UC Davis)

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# UC DAVIS

## TOPICS

Statistical Mechanics and Complex Systems  
Soft-Matter, Polymer, and Biological Physics  
Materials Physics  
Fluid Dynamics, Turbulence, Nano-Fluidics,  
Magnetohydrodynamics  
Quantum Many-Body Physics  
Quantum Computation

Lattice Field Theory in Particle and Nuclear Physics  
Astrophysics, Space-Plasma Physics, Gravitation, Cosmology  
Computational Physics Education  
Novel Hardware and Software Paradigms  
Energy, Environment and Climate Modeling  
Machine Learning and Applications  
Algorithm Development

