



DCMP Newsletter

APS Division of Condensed Matter Physics, DCMP Winter 2017 Newsletter

Important Deadlines and Dates:

New Orleans APS March Meeting	March 13 – March 17, 2017	Morial Convention Center
DCMP/DMP New Fellows & Award Winners Reception	5:30-7:00 pm, March 14, 2017	Marriott, Mardi Gras Ballroom ABCD
DCMP Business Meeting	7:00-8:00 pm, March 14, 2017	Marriott, Iberville Room

A Note from the DCMP Chair

The March Meeting this year in New Orleans promises a wide spectrum of invited and contributed talks and special events. The DCMP is the largest Division of the American Physical Society and we take pride in contributing significantly to the meeting's success, topicality, and breadth. A DCMP session focused on early career programs supported by the funding agencies will be held Monday evening. On Tuesday evening, we will celebrate the newly elected fellows and hold our DCMP business meeting. At this event, you can comment on draft amendments to the By-Laws and hear a report from the Executive Committee on new programs including graduate student travel awards; a collaboration of the APS Panel on Public Affairs with DCMP members to approach national and state congressional representatives; and other important business of the Division. I hope to see you there!

Bill Halperin

2016 DCMP Election Results

The results of the 2016 Division of Condensed Matter Physics election for Vice Chair and Members-at-Large of the executive committee are:

Vice Chair: Dan Arovas

Members-at-Large: Mark Freeman, Kathleen Stebe, and Rashid Zia

Approximately 14% of the 6,510 DCMP members voted in the 2016 DCMP election. We would like to congratulate those elected and express my gratitude to all the DCMP members who agreed to stand as candidates during this election. The DCMP benefits greatly from those who are willing to run for office and serve the condensed matter physics community. We would also like to thank our colleagues who will be leaving office in 2017: Sharon Glotzer (past chair) and David Grier, Francis Houle, and Joel Moore (members-at-large), all of whom have performed valuable services to the DCMP. Finally, thanks to the members of the 2016 DCMP nominating committee - Barbara Jones (Chair), Sharon Glotzer, Andy Kent, and Brad Marston – and to Allison Betz and her colleagues at MyDirectVote for the online and paper ballot distribution and counting.

The 2017 APS March Meeting

The 2017 APS March Meeting will be held in New Orleans, Louisiana from Monday, March 13 to Friday, March 17, 2017. The 2017 March Meeting headquarters hotel is the Marriot New Orleans, and the 2017 March Meeting venue is the Ernest N. Morial Convention Center.

The complete 2017 March Meeting bulletin is available in electronic form. For more information, see: <http://www.aps.org/meetings/march/index.cfm>

For DCMP-sponsored sessions, see:

<http://meetings.aps.org/Meeting/MAR17/SessionIndex2?SponsorID=DCMP>

DCMP Sponsored Events: DMP/DCMP Fellows and Awards Reception and DCMP Business Meeting

The Division of Condensed Matter Physics will sponsor the following events during the 2017 March Meeting. This is your opportunity to interact with the Executive Committee and to become informed of the activities of the Division.

Tuesday, March 14

DCMP/DMP New Fellows & Award Winners Reception

5:30 - 7:00 p.m.

New Orleans Marriott, Mardi Gras Ballroom ABCD (3rd Floor)

DCMP Business Meeting

7:00 - 8:00pm

New Orleans Marriott, Iberville Room (4th Floor)

DCMP Sponsored Prize Winners for 2017

Oliver E. Buckley Condensed Matter Prize (DCMP)

Alexei Kitaev, California Institute of Technology

Xiao-Gang Wen, Massachusetts Institute of Technology

For theories of topological order and its consequences in a broad range of physical systems

Davisson-Germer Prize in Atomic or Surface Physics (DCMP)

Eli Rotenberg, Lawrence Berkeley National Laboratory

Stephen Kevan, University of Oregon

For the development of angle resolved photoemission spectroscopy (ARPES) leading to groundbreaking surface science

Division of Condensed Matter Physics Graduate Student Travel Awards

The DCMP Graduate Student Travel Award Program has been established to assist the professional development and careers of graduate student researchers. This year, we awarded ten \$500 DCMP Travel Awards and ten Honorable Mention recognitions to allow graduate student members of DCMP to participate in 2017 APS March Meeting sessions. The selection was based on merit and the committee consisted of members of the DCMP Executive Committee.

The DCMP Graduate Student Travel Awards will be presented at the DCMP/DMP New Fellows and Award Winners Reception, Tuesday, March 14, New Orleans Marriott, Mardi Gras Ballroom ABCD (3rd Floor).

The recipients of the 2017 DCMP Graduate Student Travel Awards are:

Name/Institution

Ozgur Aslan, Stanford University
Thomas Baker, University of California, Irvine
Benedetta Flebus, Utrecht University
Suguru Ito, ISSP, University of Tokyo
Hsiang-Hsi Kung, Rutgers University
Ang Li, University of Florida
Laura Ortiz, Universidad Complutense de Madrid
Mihir Pendharkar, University of California, Santa Barbara
Chi Zhang, The Ohio State University
Linghua Zhu, New Jersey Institute of Technology

Recipients of the 2017 DCMP Graduate Student Travel Honorable Mention Awards are:

Name/Institution

Sayan Basak, Purdue University
Lei Fang, The City College of New York
Sudiksha Khadka, Ohio University
Neda Lotfizadeh, University of Utah
Lekhanath Poudel, University of Tennessee and Oak Ridge National Laboratory
Abhinav Prem, University of Colorado, Boulder
Mahdi Sadjadi, Arizona State University
Vijeta Singh, Academy of Science and Innovative Research at CSIR-NPL
Serafim Teknowijoyo, Ames Laboratory and Iowa State University
Li Yang, Rice University

Enabling Careers in Condensed Matter Physics: Federal Programs

Monday, March 13

7:30 p.m. – 9:20 p.m.

New Orleans Theater A

[Session D22](#)

Who should attend? Those interested in federal career programs related to condensed matter physics.

Kavli Symposium: Quantum Matter & Quantum Information

Wednesday, March 15

2:30 p.m. - 5:30 p.m.

Exhibit Hall

[Session P0](#)

About the Kavli Foundation: The Kavli Foundation is dedicated to the goals of advancing science for the benefit of humanity and promoting increased public understanding and support for scientists and their work. The Foundation's mission is implemented through an international program of research institutes, professorships, and symposia in the fields of astrophysics, nanoscience, neuroscience, and theoretical physics as well as prizes in the fields of astrophysics, nanoscience, and neuroscience.

March Meeting: Pre-meeting Workshops

DPOLY Short Course: Polymer Colloids: Synthesis, Characterization and Application

March 11 - 12, 2017, Location TBD

GSOFT Short Course on Fundamental Concepts and Tools in Computational Soft Matter Physics

March 12, 2017, Location TBD

Finding Your Scientific Voice: Improving Your March Meeting Presentation

March 12, 2017, Location TBD

Communication and Negotiation Seminar for Women

March 12, 2017, Location TBD

March Meeting First-Time Attendees Orientation

March 12, 2017, Location TBD

Future of Physics Days Undergraduate Meet and Greet

March 12, 2017, Location TBD

Official Tweetup

March 12, 2017, Location TBD

March Meeting: Tutorials

Sunday, March 12

Morning Tutorials, 8:30 am – 12:30 pm

Tutorial #1: Quantum Photonics

Instructors: Darrick Chang, ICFO; Javier Garcia de Abajo, ICFO-Spain; Mikhail Lukin, Harvard University; Vlad Shalaev, Purdue University

Tutorial #2: Electron Phonon Interactions

Instructors: Feliciano Giustino, Oxford University; Chris G. Van de Walle, University of California, Santa Barbara; Carsten Ullrich, University of Missouri; Mark van Schilfhaarde, King's College

Tutorial #3: Topological Insulators

Instructors: B. Andrei Bernevig, Princeton University; Piers Coleman, Rutgers University; Çağlıyan Kurdak, University of Michigan, Ann Arbor; Nitin Samarth, Penn State University

Tutorial #4: Current Research in Many-Body Localization

Instructors: Antonello Scardicchio, International Center for Theoretical Physics, Trieste; Sarang Gopalakrishnan, City University of New York, New York; Frank Pollmann, Max Planck Institute for the Physics of Complex Systems, Dresden; Ulrich Schneider, Cambridge University, Cambridge

Afternoon Tutorials, 1:30 pm – 5:30 pm

Tutorial #5: Weyl Semi-metals

Instructors: Andrei Bernevig, Princeton University; Anton Burkov, University of Waterloo; Nai Phuan Ong, Princeton University; Siddharth Parameswaran, University of California at Irvine

Tutorial #6: Computation in the Undergraduate Curriculum

Instructors: Danny Caballero, Michigan State University; Norman Chonacky, Yale University; Larry P. Engelhardt, Francis Marion University; Robert Hilborn, American Association of Physics Teachers; Marie Lopez del Puerto, University of St. Thomas; Kelly Roos, Bradley University

Tutorial #7: Topological Physics with Cold Atoms

Instructors: Wolfgang Ketterle, Massachusetts Institute of Technology; Ian Spielman, National Institute of Standards and Technology; Christof Weitenberg, University of Hamburg; Hui Zhai, Tsinghua University

Tutorial #8: Active Matter

Instructors: Sriram Ramaswamy, TCIS; Tom Powers, Brown University; Aparna Baskaran, Brandeis University; Dan Needleman, Harvard University

DCMP Executive Committee

The Executive Committee Officers and Members-at-Large for the 2016-2017 year (most terms begin after the March Meeting):

Officers:

Chair: William Halperin, (03/16 - 03/17)
Northwestern University

Chair-Elect: Meigan Aronson, (03/16 - 03/17)
Texas A&M University

Vice Chair: Paul Canfield, (03/16 - 02/17)
Iowa State University

Past Chair: Sharon Glotzer, (03/16 - 03/17)
University of Michigan, Ann Arbor

Councilor: Brad Marston, (01/16 - 12/19)
Brown University

Secretary/Treasurer: Lance Cooper, (03/15 - 03/19)
University of Illinois, Urbana

Members-at-Large:

David Grier, (03/14 - 03/17)

New York University

Frances Houle, (03/14 - 03/17)

Lawrence Berkeley National Laboratory

Joel Moore, (03/14 - 03/17)

University of California, Berkeley

Martin Greven, (03/15 - 03/18)

University of Minnesota, Minneapolis

Harold Hwang, (03/15 - 03/18)

Stanford University

Adriana Moreo, (03/15 - 03/18)

University of Tennessee, Knoxville

Erica Carlson, (03/16 - 02/19)

Purdue University

Stephen Nagler, (03/16 - 02/19)

Oak Ridge National Laboratory

Douglas Natelson, (03/16 - 02/19)

Rice University