DCMP Newsletter

APS Division of Condensed Matter Physics, DCMP Summer 2017 Newsletter

Important Deadlines and Dates:

DCMP Invited Symposia Nominations	**Thursday, August 31, 2017**
DCMP Executive Committee Nominations	**Friday, September 1, 2017**
Voting Starts for DCMP Executive Committee	October 2017
Contributed Abstracts Deadline	November 10, 2017
APS Fellow Nominations	Thursday, February 1, 2018
2018 Los Angeles APS March Meeting	March 5 – March 9, 2018

The 2018 APS March Meeting

The 2018 APS March Meeting will be held in Los Angeles, California from Monday, March 5 to Friday, March 9, 2018. The 2018 March Meeting headquarters hotel is the JW Marriott Los Angeles, and the 2018 March Meeting venue is the Los Angeles Convention Center. The complete bulletin will be available only in electronic form.

Message from the DCMP Chair-Elect: Invited Symposia Nominations

Please help make the 2018 March Meeting a success by submitting nominations for invited DCMP Symposia. APS has implemented a new, simplified, method of proposing DCMP-sponsored symposia for the March Meeting. Access the site here:

https://www.aps.org/meetings/march/abstracts/

Log in and follow the prompts to get to the APS March Meeting 2018 page, at which point you can start your nomination submission process.

A few key points:

---According to DCMP bylaws, invited speakers are drawn exclusively from member nominations. If a researcher is not nominated, then they cannot be selected as an invited speaker, no matter how wonderful their research is. It is therefore vital for DCMP members to submit nominations.

---When you begin entering your symposium nomination into the system, please remember to choose “Invited Symposium Nomination.”

---Please recall that DCMP sponsors symposia, not individual speakers, so it is most helpful and constructive if you can propose a complete session including a chair, five speakers, and up to two additional substitute speakers.

---Please inform the people you nominate and make sure that they are willing to give the talk you are suggesting. Similarly, make sure your choice of session chair is willing to serve in this capacity.

---If a person gave an invited talk at the March Meeting 2017, then that person cannot give an invited talk at the 2018 March Meeting, and should not be nominated, except if they were a prize or award winner.
http://www.aps.org/meetings/march/reports/mar17speakers.cfm is a link to the complete list of March Meeting 2017 invited speakers.

I urge ***all members*** of DCMP to propose symposia. This is how you directly influence what invited talks you can choose from when you arrive in Los Angeles in March. A complete, well justified symposium proposal leads to the strong symposia and invited talks that we all appreciate and enjoy at the March Meeting.

The deadline for completion and submission of proposals is ***Thursday, August 31, 2017 at 11:59 PM*** (EDT), but I urge you to please consider submitting proposals as early as today, tomorrow, or next week. Please, take the time to submit your ideas and nominations so that we can have as rich and diverse a selection of topics and speakers as possible.

Paul Canfield, DCMP Chair-Elect

Additional Suggestions for Creating a Successful Proposal

1. Propose a symposium on a timely topic with five excellent talks. The program committee favors symposia with five talks, so suggesting an additional sixth talk can be helpful in the event of cancellation.

2. Choose an appropriate title and provide a clear justification. This will aid the committee in making its decision. The speaker can revise the title later, but it is important to have the topic of the presentation stated clearly.

3. Provide an informative abstract for each talk. This will address the central theme of the symposium and aid the committee in reaching a decision. Speakers who are invited will be asked to submit their own abstracts later.

4. Provide references to publications. This will aid the committee in determining whether the work is current and whether it has received acceptance from the scientific community. Electronically posted pre-prints are useful, but do not have the same status as refereed publications.

5. Enter the proposed symposium under a relevant DCMP sorting category. This will ensure that the correct subcommittee examines the proposal. Multiple submissions of a proposal are counterproductive and ineffective.

Nomination and Election of DCMP Executive Committee Members

This coming October, you will be asked to elect a new Vice Chair (who will become, in successive years, Chair Elect, Chair and Past Chair), and three Members-at-Large who serve 3-year terms. To submit a nomination for Vice Chair or Member-at-Large, please go to: http://www.aps.org/units/dcmp/governance/nominations.cfm. When considering nominees, you might find it useful to consult the past list of DCMP chairs and members-at-large. The deadline for nominations is ***Sept. 1, 2017***.

The DCMP Executive Committee performs several functions. One of its most important responsibilities is to lead the organization of the APS March Meeting. It is the body that selects the division's invited symposia from those nominated by the community. Thus, a proper balance of expertise and diversity of the Executive Committee are essential for a successful meeting. The Executive Committee helps to lobby Congress on science policy issues. Finally, the DCMP Members-at-Large choose potential new Fellows, from those nominated, to be considered by the APS Fellowship Committee and Council. The current membership of the Executive Committee appears at the end of this newsletter and can be found at: http://www.aps.org/units/dcmp/governance/officers/index.cfm

The election is planned for October 2017. Members will receive voting instructions from the APS. Candidate biographies and statements will be available on both the APS and DCMP web sites before and during the election. During the election, you will be able to go to the DCMP web-site and click the link that will appear there, or you can click the link in an email that you will receive once the election site opens.

Division of Condensed Matter Physics Grad Student Travel Awards

The DCMP Grad Student Travel Awards have been established to assist the professional development and careers of graduate student researchers. We anticipate awarding ten $500 DCMP Travel Awards and ten Honorable Mention recognitions to allow graduate student members of DCMP to participate in APS March Meeting sessions. The selection will be based on merit and the committee will consist of members of the DCMP Executive Committee.

Students interested in being considered for a DCMP Travel Award must apply online:

https://www.aps.org/units/dcmp/awards/index.cfm

On-line applications must be completed by November 20, 2017. Advisors of applicants will be asked to complete a letter of support by December 11, 2017.

Richard L. Greene Dissertation Award in Experimental Condensed Matter or Materials Physics

The Richard L. Greene Dissertation Award was established to recognize doctoral thesis research of exceptional quality and importance in experimental condensed matter or experimental materials physics. The award, to be given annually, will consist of $2500, a certificate citing the contributions made by the recipient, and an allowance of up to $1500 for travel to attend and give an invited talk at the annual APS March meeting at which the award will be presented. On-line applications must be completed by Friday, September 1, 2017, and the eligibility criteria and nomination information can be found online: https://www.aps.org/programs/honors/dissertation/greene.cfm

New DCMP-Sponsored APS Fellows Selected in 2016

Congratulations to DCMP-sponsored APS Fellows selected in 2016. Fellowship certificates and pins were presented to the new DCMP Fellows during the DCMP/DMP Joint Fellowship/Awards Reception at the 2017 APS March Meeting in New Orleans.

Abanov, Alexander G. [2016]
State University of New York - Stony Brook
Citation: For pioneering contributions to electronic condensed matter physics using topological and hydrodynamic methods.

Appelbaum, Ian [2016]
University of Maryland, College Park
Citation: For advancing the study of spin-polarized electron transport in semiconductors, especially the fundamental processes revealed by coherent and time-resolved spin transport over macroscopic distances in silicon and germanium.

Averitt, Richard [2016]
University of California, San Diego
Citation: For his pioneering experimental study of the electrodynamics of correlated electron materials and metamaterials.

Bianconi, Antonio [2016]
Università di Roma
Citation: For developing experimental methods using synchrotron radiation including X-ray absorption near edge structure and scanning micro-X-ray diffraction, and for advanced data analysis techniques used to unveil the role of complex local structures in the functionality of oxide materials and metalloproteins.

Feng, Donglai [2016]
Fudan University
Citation: For seminal contributions to elucidating the electronic structure of quantum materials, particularly bulk and interface superconductivity in iron-based superconductors.

Fiete, Gregory A. [2016]
University of Texas at Austin
Citation: For contributions to the theory of correlated electron systems, including pioneering work on the spin-incoherent Luttinger liquid and interaction-driven topological phases.

Gruzberg, Ilya [2016]
The Ohio State University
Citation: For contributions to the theory of critical phenomena near Anderson localization-delocalization transitions in disordered electronic systems, including the integer quantum Hall transition and its variants in different symmetry classes.

Gusev, Vitalyi [2016]
Université du Maine
Citation: For fundamental contributions to the study of nonlinear acoustics of mesostructured media, and laser-induced ultrafast opto-acoustic phenomena in semiconductors and nanostructured materials.

Kempa, Krzysztof [2016]
Boston College
Citation: For pioneering contributions to understanding basic physics of plasmons in condensed matter systems.

Kim, Young-June [2016]
University of Toronto
Citation: For contributions to the understanding of various quantum materials using X-ray and neutron scattering techniques, notably the development of resonant inelastic X-ray scattering and its applications to cuprates and iridates.

Kono, Kimitoshi [2016]
RIKEN Center for Emergent Matter Science
Citation: For groundbreaking experiments on the dynamics of strongly correlated 2-D electron systems and the observation of new collective phenomena in helium using surface electron states.

Kreyssig, Andreas [2016]
The Ames Laboratory
Citation: For elucidating the relationships between the structural, magnetic, and superconducting properties of iron-arsenide hightemperature superconductors.

Markovic, Nina [2016]
Johns Hopkins University
Citation: For important contributions to the experimental study and understanding of electron transport in low dimensions.

Okamoto, Satoshi [2016]
Oak Ridge National Laboratory
Citation: For contributions to the theory of interacting electrons in solids, including foundational work on orbital waves and on correlated-electron superlattices.

Perkins, Natalia [2016]
University of Minnesota
Citation: For theoretical studies of the low-energy behavior of strongly correlated electron systems that exhibit an interplay of orbital and spin degrees of freedom.

Potemski, Marek [2016]
CNRS
Citation: For contributions to the understanding of semiconductor and graphene-based, two dimensional systems using optical magneto-spectroscopy methods.

Rogge, Sven [2016]
University of New South Wales
Citation: For contributions to the understanding and development of solid-state quantum electronics and transport through single dopants in semiconductors.

Rokhinson, Leonid [2016]
Purdue University
Citation: For contributions to the field of mesoscopic semiconductors.

Tutuc, Emanuel [2016]
University of Texas at Austin
Citation: For contributions to the physics of 2-D electron systems.

Zhou, Xingjiang [2016]
Chinese Academy of Sciences
Citation: For significant contributions to the development of vacuum ultraviolet laser-based angle- and spin-resolved photoemission systems, and incisive investigation into the electronic structure of high temperature cuprate and iron-based superconductors.

Zhu, Jian-Xin [2016]
Los Alamos National Laboratory
Citation: For outstanding and original contributions to correlated electron systems, specifically electronic structure in unconventional superconductors and heavy fermions.

DCMP Executive Committee

The Executive Committee Officers and Members-at-Large for the 2017-2018 year (most terms begin after the March Meeting):

Officers:

Chair: Meigan Aronson, (3/17 - 3/18)
Texas A&M University
Chair-Elect: Paul Canfield, (3/17 - 2/18)
Iowa State University
Vice Chair: Daniel Arovas, (3/17 - 2/18)
University of California, San Diego
Past Chair: William Halperin, (3/17 - 3/18)
Northwestern University
Councilor: John Marston, (1/16 - 12/19)
Brown University
Secretary/Treasurer: Lance Cooper, (3/15 - 3/19)
University of Illinois, Urbana-Champaign

Members-at-Large:

Martin Greven, (3/15 - 3/18)
University of Minnesota, Minneapolis
Harold Hwang, (3/15 - 3/18)
Stanford University
Adriana Moreo, (3/15 - 3/18)
University of Tennessee, Knoxville
Erica Carlson, (3/16 - 2/19)
Purdue University
Stephen Nagler, (3/16 - 2/19)
Oak Ridge National Laboratory
Douglas Natelson, (3/16 - 2/19)
Rice University
Mark Freeman, (3/17 - 3/20)
University of Alberta
Kathleen Stebe, (3/17 - 3/20)
University of Pennsylvania
Rashid Zia, (3/17 - 3/20)
Brown University