Dear DCMP Members,

The goal of the annual DCMP Newsletter is to share general interest information that is important to our members. The 2013 newsletter announces the fall 2012 DCMP election results, the winners of the Buckley, and Davison-Germer Prizes that will be awarded at the 2013 March Meeting, and the DCMP APS Fellows selected at the 2012 March meeting. The newsletter also provides a summary of the 2013 APS March Meeting events that DCMP either organized or is co-sponsoring. The 2013 March Meeting will take place in Baltimore from Sunday March 17 to Friday March 22. The DCMP invited sessions cover a wide variety of exciting scientific themes that reflect the vitality of our field, as well as award sessions and sessions devoted to innovative outreach or education efforts. We invite you to participate in our Tuesday afternoon DCMP-co-sponsored reception and in the business meeting which follows. The reception and business meeting will take place at the Hilton Baltimore in Ballrooms 5 and 2 respectively.

You can find detailed information about the 2013 APS March Meeting Program at www.aps.org. We would like to draw your attention to the Kavli Foundation Special Session on 'Forefront Physics for Real World Problems: Energy, Climate, and the Environment' which will be chaired by APS president Michael Turner and include a talk by former energy secretary Stephen Chu. Barbara Jones, the DCMP and March Meeting Chair, spearheaded the team that organized the 2013 Kavli Session, which will take place in the middle of the meeting on Wednesday afternoon March 20th from 2:30 – 5:30 pm. There have been special Kavli sessions at the past few March Meetings, and the intention is that they will become a regular feature. The DCMP executive welcomes member suggestions on attractive topics for the Kavli Session planned for the 2014 March meeting.

The DCMP invited symposia and special events listed below involve more than 200 invited speakers. DCMP members who enjoy the high quality of these sessions owe a debt of gratitude to those who have taken the time to provide thoughtful nominations. All members are encouraged to consider making invited session nominations for the 2014 March meeting via the APS website. The deadline for nominations is the 2013 Labor Day weekend. The 2013 DCMP Program will also include contributed sessions with thousands of additional presenters. You will be able to choose from almost 9,000 presentations overall.

The March Meeting is your meeting and the DCMP executive committee hopes that you will enjoy it. Suggestions for improvements are always welcome.

— Allan MacDonald DCMP Chair-Elect & March Meeting Program Chair

DCMP Election Results

Here are the results of the 2012 Division of Condensed Matter Physics election for Vice-Chair, Councilor, and Members-at-Large of the Executive Committee:

Vice-Chair: Sharon Glotzer
Members-at-Large: Andrew Kent
                      Philip Kim
                      Peter Littlewood

Approximately 20% of the 5,636 DCMP members voted in this election. I would like to congratulate those elected, and express my gratitude to all those who agreed to stand as candidates. The Division benefits greatly from our colleagues who are willing to run for office and serve the condensed matter physics community.

I would also like to thank our colleagues who will be leaving office in 2013: Sam Bader (Past Chair), Yves Chabal, Peter Johnson, and Charles Kane (Members-at-Large). All of them have performed valuable service for the Division.

Finally, sincere thanks to Andrea Liu, Chair of the Nominating Committee; to Shelley Yi, Jim Egan, Delong Yang and their IT colleagues at the APS for their help with the online component of the election; and to Leanne Poteet from APS Special Publications for preparing and mailing the paper ballots.

—Nick Bonesteel, DCMP Secretary-Treasurer
New DCMP Sponsored APS Fellows Selected in 2012

Alzenberg, Joanna [2012]
Harvard University
Citation: For research in biomineralization and the control of templated nucleation and growth of crystals

Balicas, Luis M. [2012]
Florida State University
Citation: For experimental studies of unconventional superconductors, heavy fermion materials, and frustrated magnetic systems

Bao, Wei [2012]
Renmin University of China
Citation: For neutron scattering studies of the magnetic structure and spin dynamics of highly correlated electron systems

Behnia, Kamran [2012]
LPEM-ESPCI
Citation: For high-resolution thermal transport measurements to understand unconventional quantum states of matter

Bunker, Bruce A. [2012]
University of Notre Dame
Citation: For contributions to the development of X-ray absorption spectroscopy and applications to complex nanoscale materials

Chi, Cheng-Chung [2012]
National Tsing Hua University
Citation: For studies of nonequilibrium superconductivity and quasiparticle dynamics using tunneling and ultrashort pulse experiments

Collins, Reuben T. [2012]
Colorado School of Mines
Citation: For contributions to understanding optical properties of high temperature superconductors, complex semiconductor heterostructures, porous silicon and hybrid organic-inorganic heterostructures

Deveaud, Benoit [2012]
Ecole Polytech Federal
Citation: For demonstration of Bose Einstein condensation of exciton polaritons in microcavities and developments in semiconductor ultrafast optics

Di Ventra, Massimiliano [2012]
University of California, San Diego
Citation: For contributions to the theory of electronic transport in nanoscale conductors

Eckern, Ulrich [2012]
University of Augsburg
Citation: For contributions to the theory of nonequilibrium superconductivity, quantum dissipation in Josephson junctions, and phase coherence in disordered and interacting mesoscopic systems

Eriksson, Mark A. [2012]
University of Wisconsin, Madison
Citation: For contributions to the understanding and development of nanodevices for spintronics and quantum information applications

Felser, Claudia [2012]
Johannes Gutenberg University
Citation: For creating and understanding new Heusler materials with spintronic and energy functionalities

Garg, Anupam K. [2012]
Northwestern University
Citation: For theory and predictions of molecular magnetism and macroscopic quantum phenomena

Govorov, Alexandre O. [2012]
Ohio University
Citation: For contributions to the understanding of optical properties of semiconductor and metal nanostructures, including elucidation of the optical Aharonov-Bohm and nonlinear Fano effects

Hau, Lene V. [2012]
Harvard University
Citation: For slowing, stopping, and storing light pulses in Bose-Einstein condensates of laser cooled atoms and converting light into a matter imprint then resurrecting the light

Heinrich, Andreas J. [2012]
IBM Almaden Research Center
Citation: For the development of scanning tunneling microscope methods to study individual magnetic atoms by spin-excitation spectroscopy and nanosecond pump-probe techniques

Julian, Stephen R. [2012]
University of Toronto
Citation: For research on unconventional metallic and superconducting states of heavy fermion metals and strongly correlated oxides

Kim, Yong-Baek [2012]
University of Toronto
Citation: For contributions to the theory of quantum spin liquids in frustrated magnets and correlated electron materials

Kunchur, Milind N. [2012]
University of South Carolina
Citation: For development of short-pulse techniques and studies of dissipation in superconductors

Morr, Dirk Klaus [2012]
University of Illinois, Chicago
Citation: For contributions to the theory of strongly correlated electron materials and complex phenomena at the nanoscale

Natelson, Douglas [2012]
Rice University
Citation: For experiments in atomic- and molecular-scale junctions

Popovic, Dragana [2012]
Florida State University
Citation: For experimental studies of glassy behavior in strongly correlated systems near the metal-insulator transition

Riseborough, Peter S. [2012]
Temple University
Citation: For contributions to quantum statistical mechanics of non-linear and non-equilibrium phenomena and correlated electron systems

Santos, Michael B. [2012]
University of Oklahoma
Citation: For growth of compound semiconductor nanostructures and spin transport

Schonenberger, Christian [2012]
University of Basel
Citation: For charge transport experiments in metallic, semiconducting and molecular nanoelectronics

Valla, Tonica [2012]
Brookhaven National Laboratory
Citation: For photoelectron spectroscopy studies of the electronic structure and collective dynamics of strongly correlated materials

Wang, Nan Lin [2012]
Chinese Academy of Science
Citation: For contributions to the understanding of correlated electron systems, particularly iron-based superconductors

Wolkow, Robert A. [2012]
University of Alberta
Citation: For contributions to atomic-scale characterization and fabrication processes with an emphasis on silicon surfaces

Xiong, Peng [2012]
Florida State University
Citation: For contributions to the understanding of magnetotransport in nanostructured superconductors, ferromagnets, and their hybrids

Yacoby, Amir [2012]
Harvard University
Citation: For experiments of low-dimensional coherent transport, local imaging, and quantum computation in mesoscopic devices

Zimanyi, Gergely T. [2012]
University of California, Davis
Citation: For contributions to the theory of strongly correlated systems, vortices, and magnetic hysteresis
DCMP-Sponsored Prize Winners for 2013

Oliver E. Buckley Prize (DCMP)
John Slonczewski, IBM Research Staff Emiritus
Luc Berger, Carnegie Mellon University
For predicting spin-transfer torque and opening the field of current-induced control over magnetic nanostructures.

Davisson-Germer Prize (DAMOP & DCMP)
Geraldine L. Richmond, University of Oregon
For elegant elucidation of molecular structure and organization at liquid-liquid and liquid-air interfaces using nonlinear optical spectroscopies.

DCMP March Meeting Invited Sessions and Special Events

DCMP INVITED TALK SESSIONS

MONDAY MARCH 18
8:00 Spin Caloritronics (GMAG)
   Novel Superconductivity in Fe Selenide Superconductors
   Second Landau Level: Quantum Phases
11:15 Logical Spin Qubits for Quantum Computation
   2D Charge Ordering in Under-doped Cuprates
   Frustration and Quantum Criticality
   Cold Atoms on Higher Orbital Bands
14:30 Spin-Orbit-Controlled Ground States in Single-Crystal Iridates
   Coulomb Drag and Exciton Condensation in Semiconductor and
   Graphene Double Layers
17:45 APS Prizes and Awards Ceremonial Session
   Hilton Baltimore / Key Ballroom 8
18:45 Welcome Reception Room: Exhibit Hall D
19:30 Special Outreach Session: Meso-physics Room 310

TUESDAY MARCH 19
8:00 Physics from the Laboratory to the Universe:
   Davisson Germer/Heineman/Onsager/Lilienfeld Prizes (GSNP)
   Low Energy Excitations in Iridates
11:15 Anderson-Higgs Boson in Condensed Matter Physics
14:30 Buckley Prize Session (GMAG)
   Topological States and Plasmonics in Graphene
   Colloidal Carbon Nanotubes (GSNP)
17:30 DCMP/DMP New Fellows and Award Winner Reception
   Hilton Baltimore / Key Ballroom 5
19:00 DCMP Business Meeting
   Hilton Baltimore/Holiday Ballroom 2

WEDNESDAY MARCH 20
8:00 Tunable, Intense, Coherent THz Emission From a High Temperature Superconductor
   Interaction-Driven Quantum Hall States in Graphene
   Novel Quantum Phases in Artificial Lattices and Networks
11:15 Quantum Computing With Diamond (GQI)
   Electron Matter in FE-Based Superconductors
14:30 Kavli Session: Forefront Physics for Real World Problems: Energy,
   Climate, and the Environment
   Controlling Magnetism Without Magnetic Fields (GMAG)
   New Developments in Organic Spintronics
   Nonequilibrium Relaxation and Aging in Materials (GSNP)

THURSDAY MARCH 21
8:00 Superfluids under Nanoscale Confinement
   Valley Polarization Physics
   From Cells to Tissues: The Material Properties of Living Matter
11:15 Topological Insulators: Surface State Transport
   Hidden Order in URu2Si2 and Related Compounds (DCMP)
   Application of the First-Principles and Atomistic Methods to Nuclear
   Detection Materials (DCMP)
   Quantum Reservoir Engineering and Feedback (GQI)
14:30 Superconductivity at High Pressure (DMP)
   Theory of Interacting Topological Insulators
   Physics of Next Generation DNA Sequencing (DPOLY)
   Many Body Physics in Quantum Gases (DAMOP)
17:45 Nobel Prize Session: 2012 Nobel Prize Perspectives
   Convention Center Ballroom Foyer

FRIDAY MARCH 22
8:00 New Perspectives on Kondo Systems
   Magnetism and non-Fermi Liquid in Heavy Fermion Metals
   New Directions in Fractional Quantum Hall Phenomena (DCOMP)
11:15 Time- and Angle- Resolved Photoemission Spectroscopy of
   Complex Materials (GIMS)
   Jamming and Rheology of Disordered Systems (GSNP)
   Integration of Research and Teaching Excellence: Cottrell Scholars