

APS March Meeting to convene in Denver

The annual March Meeting of the American Physical Society takes place this year in Denver, Colorado, amid the scenic Rocky Mountains. It will run from Monday, 5 March through Friday, 9 March, with pre-sessions scheduled for Saturday, 3 March and Sunday, 4 March. Some 7000 papers will be presented at more than 90 invited sessions and 550 contributed sessions. Among the highlights of this year's events are various tutorials and workshops, as well as meetings, social gatherings, and receptions. Specific information about all events is available at <http://www.aps.org/meetings/march/index.cfm>. All tutorials and many of the special workshops require preregistration.

The Colorado Convention Center, a state-of-the-art facility located in downtown Denver, will host the scientific sessions. The center is within walking distance of restaurants, shops, theaters, and museums. The nontechnical and satellite sessions will take place nearby at the headquarters hotel, the Adam's Mark.

Pre-meeting programs include a two-day Division of Polymer Physics short course, Advances in the Use of Atomic Force Microscopy for Studies of the Physics of Macromolecular Materials, offered Saturday, 3 March through Sunday, 4 March. A range of topics will be covered, including an overview of AFM, its use for biological and synthetic systems, new advances, and the challenges involved. Several half-day tutorials on Sunday will cover nanoscale magnetism, statistical and thermal physics, quantum error correction, spintronics, quantum turbulence, the physics of graphene, and other related topics.

Two workshops also take place on Sunday, 4 March. The 4th APS Workshop on Opportunities in Biological Physics will include a discussion of new techniques in biomedicine, extensive

tutorial overviews, and a lunch with the speakers. The second Sunday workshop, Professional Skills Development for Women Physicists, will cover communication skills and negotiation techniques for women physicists in industry and government.

A special field trip to the Colorado School of Mines in Golden is planned for Sunday afternoon and evening, from 3:30 to 9:00pm. Hosted by three major research universities—CSM, Colorado State University, and the University of Colorado at Boulder—the outing boasts an open house and lecture centering on research into renewable and alternative energy sources, followed by a reception and buffet.

The APS Education and Diversity department is sponsoring a High School Teachers' Day on Tuesday, 6 March, at the Adam's Mark Hotel. This event is open, at no cost, to local physics teachers, who will attend presentations, workshops, and a lunch. The program introduces current research and presents innovative hands-on activities teachers can use in their classrooms; it serves as a social vehicle to meet other physicists, university faculty, and fellow teachers in the area.

The annual job fair will run Monday–Wednesday, 5–7 March in the Convention Center Exhibit Hall. Job seekers can network, post resumés, and interview with employers on-site, while employers can showcase their companies, advertise positions, and meet and interview prospective employees. Physics-related products, services, books, and journals will be exhibited at the annual show, which also runs from 5 to 7 March.

Numerous social activities are also planned. For companions of the attendees, a complimentary welcome breakfast will be available on Monday, 5 March, from 8:30 to 10:00am at the

Adam's Mark Hotel. The breakfast will include presentations by the Denver Metro Convention and Visitors Bureau about where to go and what to see in Denver. Monday evening from 5:30 to 6:30pm is the annual Awards Program in the Convention Center. A Welcome Reception for all attendees will follow.

On Tuesday, 6 March, from 7:30 to 9:30am, the Committee on the Status of Women in Physics and the Forum on Industrial and Applied Physics are cosponsoring a networking breakfast at the Convention Center, and they invite both men and women to participate. Tuesday afternoon will offer an opportunity to meet and talk with the editors of American Institute of Physics and APS journals at the APS Journal Editors Panel Discussion, 2:30–3:30pm, followed by a Meet-the-Editors Reception, 3:30–5:30pm, also in the Convention Center. In addition, various alumni reunions hosted by universities, laboratories, and companies are planned for the Adam's Mark Hotel.

Tuesday evening the Convention Center is the site for a student reception, from 5:30 to 6:30pm, with refreshments and a physics trivia quiz. Students will have another opportunity to connect at the Convention Center during a complimentary box lunch on Wednesday, 7 March, 1:00–2:30pm, where they can participate in an informal discussion with an expert on a variety of topics.

Tuesday night is topped off by a Physics Sing-Along from 8:30 to 9:30pm in the Adam's Mark Hotel. The 2006 March Meeting in Baltimore hosted the first-ever of this event, where whimsical physics lyrics are sung to popular tunes, such as last year's "I Got Physics" sung to the tune of "I Got Rhythm" by George Gershwin. Everyone can participate, since according to last year's promotion, no singing ability is required.

Sessions with Invited Speakers

Monday, 5 March

morning

DCMP: Competing Order in High- T_c Superconductors. *Abbamonte, Kohsaka, Homes, Tranquada, Franz*
 FIAP: Future of Fossil Fuels. *Wilson, Fan, Lackner, Collett, Schmitt*
 DCMF: Electronic States in Graphene. *Basov, Zhang, Berger, Lanzara, Castro Neto*
 DPOLY/DMP/GSNP: Responsive and Adaptable Polymeric Materials. *Vaia, Zauscher, Hansma, Wirtz, Grosberg*
 DBP: Mechanisms and Landscapes of Cellular Networks. *Tyson, Shapiro, Davidson, Bialek, Cross*
 DCOMP: Frontiers in Computational Materials. *Williamson, Godby, Ceder, Zunger, von Allmen*
 DCMF: Unconventional Transport and Magnetic Properties of Hexaborides. *Degorgi, Cooper, Denlinger, Pereira, Calderon*
 DMP: Novel Superconductors I: Doping and Impurities in MgB_2 . *Daghero*
 DMP: Superconductivity: Thermodynamic and Doping Effects. *Bonn*
 GMAG/DMP/FIAP: Spin Hall Effect. *Awschalom*
 DMP/GMAG: Multiferroics I. *Ederer*
 GMAG/DMP/FIAP: Spin-Dependent Tunneling I. *Miller*
 GMAG: Spin Freezing on Frustrating Lattices. *Ueland*
 DPOLY/DMP: Photophysics of Electronic Polymers. *Vardeny*
 DCP: New Frontiers in Imaging I. *Bluemich, Fukushima, Gladden*
 FED: Physics Education Research. *Redish*
 GSNP: Econophysics. *Farmer*
 DMP/DCOMP: High Pressure I: Earth and Planetary Materials. *Iota*
 DPOLY: Particle Dynamics and Organization: Polymer Mediated, Polymer Particles, and Anisotropic Particles. *Granick*
 DPOLY: Mechanical Properties, Fracture, and Adhesion. *Van Vliet*
 DCP/DBP: Protein Folding: Theory and Simulations I. *Wolynes, Pande, Shakhnovich*
 DMP/DCOMP: Computational Nanoscience I: Methods and Applications. *Ciobanu*
 DMP: Carbon Nanotube Optics I. *Kono*
 DFD: Colloids I. *Weeks*
 DAMOP: Rotating Quantum Gases. *Vievers*
 GQI/DAMOP: Quantum-Limited Measurements. *Geremia*
 GIMS: Acoustic and Optical Instrumentation. *Diebold*
 FIAP: Phase Transitions and Domains in Ferroelectric Nanostructures I. *Spanier*
 DMP: Quantum Size Effects in Metallic Thin Films. *Shih*
 FIAP/DMP: Physics of Thermoelectric Materials and Phenomena I. *Zhang*
 DMP: Nanoscale Transport: Wires, Dots, Point Contacts. *Rokhsinon*

midday

FHP: 20th Anniversary of High T_c Superconductivity "Woodstock" Session. *Bednorz, Chu, Scalapino, Grant, Cava, Cohen, Tanaka, Greene, Kapitulnik, Finnemore*
 GMAG: Spin-Transfer-Driven Magnetic Excitations. *Stiles, Suzuki, Sankey, Acremann, Klaui*
 DCMF: Phonons and Magnetic Frustration in Pyrochlores. *Bergman, Tchernyshyov, Dodge, Gaulin, Lee*
 DAMOP: Population-Imbalanced Superfluid Fermi Gases. *Li, Shin, Sheehy, De Silva, Chen*
 DBP: Adaptation in Biological Systems. *Endres, Fairhall, Brenner, Desai*
 GSNP/DPOLY: Control and Architecture in Directed Macromolecular Self-Assembly. *Bowick, Pine, Stone, Wooley, Alexandridis*
 DCMF: Emergent Patterns in Geophysical Processes. *Goldenfeld, Morris, Short, Betterton, Shinbrot*
 DMP: Novel Superconductors II: $CeCoIn_5$ and Na_2CoO_2 . *Klein*
 GMAG/DMP/FIAP: Spin Injection. *Jiang*
 DMP/GMAG: Cobaltates and Manganites. *Rosenkranz*
 GMAG/DMP: Magnetic Nanowires, Nanodots, Multilayers. *Bolotin*
 GMAG/DCOMP/DMP: Spin Transport and Orbital Polarization Effects. *Rocha*
 DPOLY/DMP: Pentacene and Field-Effect Transistors. *Frisbie*
 DCP: New Frontiers in Imaging II. *Kimmich, Song*
 DMP: Properties of Ferroelectrics and Relaxors. *Nelson*
 DMP/DCOMP: High Pressure II: Earth and Planetary Materials. *Jackson*
 DPOLY: Reversibly Associating Polymers: Theory and Experiments. *Percec*
 DPOLY: Adhesion, Swelling, and Elastic Properties of Thin Polymer Films. *Attard*
 DCP/DBP: Protein Folding: Theory and Simulations II. *Thirumalai, Hummer, Orland*
 DMP: Carbon Nanotube Optoelectronics. *Avouris, Lee*
 GQI: Quantum Foundations I. *Spekkens*
 GIMS/DBP: Bioinstrumentation and Biophotonic Technologies. *Telenkov*
 FIAP/DMP: Materials and Applications for Solar Energy I. *Nozik, Klimov*
 DMP: Kinetics of Self-Assembly at Surfaces. *Pimpinelli*
 DMP: Materials for Quantum Information Processing I. *Simmons*
 DMP: Nanoscale Transport: Molecules I. *Venkataraman*

afternoon

DCMP: Induced Superconductivity in Carbon Nanotubes and Graphene. *Kouwenhoven, Beenakker, Schoenenberger, Lindelof, Hakonen*
 GQI: Ion Traps for Scalable Quantum Computation. *Chuang, Wineland, Monroe, Slusher, Berkeland*
 DMP: DMP Prize Symposium. *Miller, Epstein, Harris, Bader*
 DPOLY: Polymer Crystallization: 50 Years of Chain Folding. *Geil, Khoury, Lotz, Strobl, Toda*
 FIAP: Pake Prize Symposium: Magnetic Storage and Applications. *Kryder, Bertero, Tehrani, Wittig, Meisner*
 DCOMP: Computational Challenges in Describing Mechanical Phenomena at the Nanoscale. *Greaney, Lukes, Cahill, Bernholc, Mingo*
 DCMF: Signatures of Non-abelian Quantum Hall States. *Read, Nayak, Grosfeld, Hormozi, Feldman*
 DMP: Correlated Electron Superlattices. *Pentcheva*
 GMAG/DMP/FIAP: Spin Dynamics and Magnetism in Quantum Dots. *Fabian*
 DMP/GMAG: Computational Study of Complex Oxides. *Smith*
 GMAG/FIAP: MRAM and Magnetic Devices. *Engel*
 GMAG: Triangular Lattice Antiferromagnetism. *Starykh*
 DMP/GMAG: Multiferroics II. *Bibes*
 DCP: New Frontiers in Imaging III. *Warren, Squier*
 DMP: Ferroelectric and Other Oxides. *Cohen*
 GSNP/DMP: Fracture. *Bonamy*
 DMP/DCOMP: High Pressure III: Earth and Planetary Materials. *Lee*
 DCP/DBP: Protein Folding: Theory and Simulations III. *Onuchic, Henry*
 DMP: Carbon Nanotube Optics II. *Wang*
 DFD: Colloids II. *Dinsmore*
 DAMOP: Fermi Gases with Unequal Spin Populations or Masses. *Chevy*
 DBP: Cell-Level Patterning During Embryonic Development. *Little*
 DBP: Biological Networks. *Hasyl*
 FIAP/DMP: Materials and Applications for Solar Energy II. *Marti*
 DMP: Spin and Nonlinear Dynamics in Optical Nanostructures. *Scheibner*

evening

DCMP: Fifty Years of BCS Theory. *Scalapino, Rowell, Baym*

Tuesday, 6 March

morning

DCMP: DCMF Prize Session. *Eisenstein, Girvin, MacDonald, Himpel*
 DPOLY: Polymer Physics Prize. *Fredrickson, Kramer, Bates, Mezzenga, Milner*
 DCMF: Anomalous Hall Effect: Theory and Experiments. *Onoda, Lee, Sales, Zeng, Xiao*
 DCOMP/DCOMP/DMP: Recent Advances in Quantum Monte Carlo Simulations. *Zhang, Casula, Mitas, Needs, Sorella*

Abbreviations preceding each entry denote the sponsoring committee (c), division (d), forum (f), or topical group (g):

COM: Minorities in Physics (c)
 DAMOP: Atomic, Molecular, and Optical (d)
 DBP: Biological Physics (d)
 DCMF: Condensed Matter Physics (d)
 DCOMP: Computational Physics (d)
 DCP: Chemical Physics (d)
 DFD: Fluid Dynamics (d)
 DMP: Materials Physics (d)
 DPB: Physics of Beams (d)
 DPOLY: Polymer Physics (d)
 FED: Education (f)
 FGSA: Graduate Student Affairs (f)
 FHP: History of Physics (f)
 FIAP: Industrial and Applied Physics (f)
 FIP: International Physics (f)
 FPS: Physics and Society (f)
 GIMS: Instrument and Measurement Science (g)
 GMAG: Magnetism and Its Applications (g)
 GQI: Quantum Information (g)
 GSNP: Statistical and Nonlinear Physics (g)

DCOMP: Exact-Exchange-Based DFT Functionals Meet Quasiparticle Energy Calculations: Exciting Prospects for Condensed Systems. *Pulci, Shirley, Scuseria, Kresse, Goerling*
 FIAP: Physicists as Entrepreneurs. *Wyatt, Elings, Woollam, Wyatt*
 FPS: Nuclear Weapon Missions in the 21st Century. *Brooks, Kehler, Tarter, Drell, Oelrich*
 DMP: Novel Superconductors III: Mostly MgB_2 . *Li*
 DMP: Multiferroic Heterostructures. *Schlom*
 GMAG/DMP/FIAP: Spin Transport. *Weiss*
 GMAG: 2D Quantum Magnetism. *Fernandez-Baca*
 DCP: New Frontiers in Imaging IV. *Springer Jr, Navon*
 DBP: Medical Radiation Biology. *Britten, Brenner*
 DCP: Nonadiabatic Molecular Dynamics and Control at Conical Intersections I. *Matsika, Miller*
 DMP/DCOMP: Computational Nanoscience III: DNA Translocation/Nanopores. *Bhattacharya*
 DMP: Graphene I. *Ando*
 GQI: Superconducting Qubits I. *Gambetta*
 DBP: DNA and Protein Analysis with Nanofluidics. *Craighead*
 GIMS: X-Ray and Neutron Instruments and Sciences I. *Sato*
 FIAP: Phase Transitions and Domains in Ferroelectric Nanostructures II. *Prosandeev, Roytburd*
 FIAP/DMP: Physics of Thermoelectric Materials and Phenomena II. *Shakouri*
 DMP: Optical Properties of Nanocavities and Structured Materials. *Williams*

midday

DCMP: Cuprate Superconductors: Underdoping and Pseudogaps. *Ong, Loram, Norman, Hirschfeld, Balatsky*
 DCP/DCOMP/GSNP: Prize Session. *Somorjai, Frenkel, Zwier, Havlin, Huang*
 DCMP/DMP: Emerging Science of Solid-State Lighting. *Craford, Burrows, Simons, Malliaras, Misewich*
 DPOLY/FIAP: Polymer-Based Composite Materials. *Char, Krishnamoorti, Mackay, Schweizer, Kim*
 FED: Topics from the Gordon Research Conference on Teaching Electricity and Magnetism. *Shaffer, Belcher, Patton, Spalding*
 FIP/FPS: Scientific Cooperation in the Middle East. *Feldman, Mansouri, Rabinovici, Greene, Turekian*
 DMP: Novel Superconductors IV: Intercalated Graphites and Related. *Kim*
 GMAG/DMP/FIAP: Spin Control and Dynamics in Quantum Dots. *Gywat*
 GMAG/DMP/FIAP: Domain Wall Motion and Spin Dynamics. *Thomas*
 GMAG: Frustrated 1D Magnetism. *Enderle*
 GMAG/DMP: Molecular Magnets. *Ardavan*
 DCP/DCOMP: Frontiers in Electronic Structure Theory I. *Becke, Gill*
 DBP: Medical Physics: Approaches to Cancer Treatment. *Paganetti, Ma*
 GSNP/DFD: Collective Dynamics of Self-Driven Particles. *Ramaswamy*
 DPOLY: Hybrid Organic, Inorganic Nanomaterials: Synthesis, Assembly. *Emrick*
 DCP: Nonadiabatic Molecular Dynamics and Control at Conical Intersections II. *Cederbaum, Krylov*
 DMP: Carbon Nanotube Optics III. *Jorio*
 DFD/GSNP: Granular Flows I. *Kumaran*
 DFD: Characterizing Spatiotemporal Complexity in Fluids and Materials. *Mischaikow*
 FIAP/DMP: Hydrogen Storage I. *Yaghi*
 DMP: Materials for Quantum Information Processing II. *Santori*
 DMP: Optical Properties of Nanocrystals. *Htoon, Wang*

afternoon

DCMP/DMP: Basic Research Needs for Superconductivity. *Sarrao, Eckstein, Kwok, Pickett, Malozemoff*
 FIAP/DPOLY: Organic and Molecular Bistability and Memory Devices. *Yang, Scott, Jabbour, Forrest, Heath*
 DCMP: Novel Phenomena in Granular Systems with Complex Interactions. *Gollub, Kudrolli, Snezhko, Cebers, Tsimring*
 DCMP/GQI: Prize Session. *Siddiqi, Wootters, Loh, Churchill, Malik*
 DCMP: Spin Manipulation in Semiconductors and Metals for Spintronics. *Hankiewicz, Stern, Samarth, Lou, Ohno*
 COM: Minorities in Medical Physics. *Gonzalez, Ewell, Gueye, Avery, McKetty*
 FED: Physics Education Award: PSSC. *Haber-Schaim, Holbrow, Smith-Williams, King*
 GMAG/DMP/FIAP: Magnetic Semiconducting Oxides. *Venkatesan*
 DMP: Interfacial Ordering. *Chakhalian*
 GMAG/FIAP: Patterned and High-Anisotropy Films for Data Storage. *Albrecht*
 DCP/DCOMP: Frontiers in Electronic Structure Theory II. *Reining, Van Voorhis*
 GSNP: Structure and Dynamics of Complex Networks. *Sneppen*
 DPOLY: John H. Dillon Award Symposium. *Pochan*
 DPOLY/DMP: Organic Spintronic Materials and Nano-Spintronic Materials. *Kronik*
 DCP: Nonadiabatic Molecular Dynamics and Control at Conical Intersections III. *Ashfold, Sussman*
 DMP: Carbon Nanotube Optics IV. *Prezhdo*
 DAMOP: BEC/BCS Crossover. *Trivedi*
 DBP: Virus-Inspired Supramolecular Structures. *Zandi, Douglas*
 DMP: Nanoscale Transport: Molecules II. *Burke*

Wednesday, 7 March

morning

DCMP: Quantum Electronics in Silicon. *Lyon, Eriksson, Rogge, Hollenberg*
 GQI/DCMP: Progress in Superconducting Quantum Computing. *Wilhelm, Hime, Houck, Steffen, Mooij*
 DAMOP: Frontiers in Ultracold Gases in Optical Lattices. *Liu, Moritz, Ho, Cornell, Lobo*
 DPOLY: Novel Approaches Aimed at Rational Design of Functional Polymeric Materials. *Khokhlov, Tew, Kiick, Kane, Hawker*
 DFD: The Generation of Magnetic Fields in the Cosmos and the Role of Turbulence. *Lathrop, Cowley, Pinton, Brummell, Mininni*
 FHP/DPB: Condensed-Matter Physics at Synchrotron Facilities: History as Prologue to the Future. *Stahr, Sette, Robinson, McWhan, Sinha*
 DCMP: Nonlinear Rheology and Dynamics of Soft Materials. *Lubensky, Wyss, Squires, Burki*
 DMP: Novel Superconductors V: Borides, Organics, and Others. *Curtarolo*
 GMAG/DMP/FIAP: Diluted Magnetic Semiconductors I. *Kuroda, Priour Jr*
 GMAG/DMP/FIAP: Current Induced Magnetization Dynamics and Spin Transfer. *Tserkovnyak*
 GMAG/DCOMP/DMP: Spin and Magnetization Dynamics. *Canali*
 DCP/DCOMP: Frontiers in Electronic Structure Theory III. *Carter, Stengel*
 GSNP: Jamming I. *Dennin, Cipelletti*
 DPOLY/DMP: Organic LEDs and Light Emission. *Bradley*
 DPOLY/DBP: Biopolymers I: Mechanical Properties. *Kalinin*
 DCP: Nonadiabatic Molecular Dynamics and Control at Conical Intersections IV. *Brixner, Jonas*
 DMP/DCOMP: Computational Nanoscience IV: Nanoparticles. *Tiago*
 DMP: Graphene II. *Jarillo-Herrero*
 DMP: Carbon Nanotubes: Synthesis. *Hayashi*
 DMP: Carbon Nanotubes: Sensors and Adsorption. *Collins*
 DBP: Brownian Motors in Physics, Chemistry, and Biology. *Linke*
 DBP/DCP: Time-Resolved Structural Investigations on Protein Folding and Function. *Hoff, Rousseau*
 GIMS: Advances in Scanned Probe Microscopy II: Force Methods. *Ternes*
 FIAP: Emerging Research Devices and Materials for the Microelectronics Industry I. *Zollner*
 DMP: STM of Surface-Based Nanostructures. *Gao*
 FIAP/DMP: Physics of Thermoelectric Materials and Phenomena III. *Tritt*

midday

DCMP: Recent Advances in Magnetization Dynamics. *Fischer, Kent, Bailey, Hofer, Liu*
 DBP: Nanopore World: From Single Molecules to Bionanotechnology Prospects. *Ling, Bezrukov, Keyser, Timp*
 DCMP: Advances in Nanostructured Materials for Electronics. *Johnston-Halperin, Martensson, Pierce, Belcher, Bezryadin*
 GMAG: Magnetic Bose-Einstein Condensation. *Fisher, Batista, Zapf, Takano, Stone*
 DCMP: Entanglement Entropy in Condensed-Matter Physics. *Levin, Moore, Refael, Vidal*
 FIAP/DPB: Condensed-Matter Physics and Future Accelerator-based Light Sources. *Gibson, Brock, Moncton, Stephenson, Schneider*
 FGSA: Science Meets Policy: Careers and Advocacy. *Bosler, Slakey, Dresselhaus, Sonneret*
 DMP: Novel Superconductors: Miscellaneous Materials. *Massidda*
 GMAG/DMP/FIAP: Spin-Orbit Coupling. *Sih*
 DMP/GMAG: High- T_c Cuprates and Nickelates. *Macridin, Wilson*
 GMAG/DMP: Magnetic Nanostructures I. *Schwarz*
 GMAG/DCOMP/DMP: Current- and Magnetization-Driven Effects. *Guo*
 DCP/DCOMP: Frontiers in Electronic Structure Theory IV. *Chan, Tomanek*
 GSNP: Social Dynamics and Scaling. *Vespignani*
 DPOLY/DMP: Organic Heterojunction Photovoltaics. *Bredas*
 DPOLY: Dynamics and Structure in Polymer Melts and Glasses. *Robbins*
 DCP: Electron and Ion Solvation in Clusters and the Condensed Phase I. *Schwartz, Hynes, Bradforth*
 DMP: Graphene III. *Son*
 DFD: Granular Flows II. *Hrenya*
 DFD: Rheology and Hydrodynamics of Wormlike Micellar Fluids. *Olmsted*
 DBP/GSNP/DPOLY: Cytoskeletal Dynamics and Cell Migration I. *Waterman-Storer*
 FIAP/DMP: Hydrogen Storage III. *Antonelli*
 DMP: Biological and Chemical Self-Assembly at Surfaces. *Brinker*
 DMP: Materials for Quantum Information Processing III. *Levy*
 DMP: Nanoscale Transport: Metals. *Altomare*

afternoon

DCMP: Magnetic Excitations in High- T_c Superconductors. *Dai, Keimer, Kitaoka, Hayden, Dahm*
 GMAG: Symposium on Exchange Bias. *Krivorotov, Nagues, Morales, O'Grady, Binek*
 DCMP: 1D Electrons Outside the Luttinger Liquid Paradigm. *Glazman, Yamamoto, Fogler, Kindermann*

DAMOP: Disordered Quantum Gases. *Inguscio, Aspect, Santos, Castin, Mueller*
 DBP: Quantum Mechanics/Molecular Mechanics: Developments and Applications. *Friesner, Warshel, Roitberg, Jorgensen, Gascon*
 GIMS: X-Ray Synchrotron Instrumentation. *Maser, Chu, Williams, Macrander*
 GSNP: Percolation. *Gruzberg, Falkovich, Serrano, Kleban, Vojta*
 DMP: Surfaces of Correlated Electron Systems. *Renner*
 GMAG/DMP/FIAP: III-Mn-V Ferromagnetic Semiconductors. *Moreo*
 DMP/GMAG: 4d and 5d Transition-Metal Oxides. *Hiroi*
 GMAG/DMP/FIAP: Spin Transfer Torque. *Fullerton*
 DMP: Nanoscale Ferroelectrics, Switching, and Domains. *Tenne*
 DPOLY/DBP: Interaction of Polymers with Biological Structures. *Olvera de la Cruz*
 DCP: Electron and Ion Solvation in Clusters and the Condensed Phase II. *Neumark, Jordan, Turi*
 DMP: Carbon Nanotubes: Devices. *Léonard*
 FIAP: Negative Index Materials: Concepts to Applications I. *Brongersma*
 FIAP/DMP: Hydrogen Storage IV. *Wu*
 DBP: Simplifying Biological Complexity. *Banavar, Duke, Cieplak*

Thursday, 8 March

morning

DCMP: RNA Folding at the Crossroads Between Molecular Biology and Statistical Physics. *Zee, Bundschuh, Tang, Wiese*
 GQI/DCMP: Quantum Cryptography and Quantum Communication I. *Zeilinger, Pan, Hughes, Luetkenhaus, Kuzmich*
 DCMF: Quantum Chaos in Condensed-Matter Physics. *Fedorov, Weaver, Anlage, Kottos, Rahav*
 DPOLY/DBP: Interfaces Between Synthetic and Biological Polymers. *Leckband, Kumar, Kannan, Szeifei, Abbott*
 FIAP: Pharmaceutical Materials Science. *Cima, Shalae, Reutzel-Edens, Pikal, Muzzio*
 DCOMP/DCP: Recent Progress in Computational Approaches for Rare Events. *Bolhuis, Dellago, Geissler, Vanden-Eijnden, Parrinello*
 GSNP/FED: Teaching Nonequilibrium Statistical Mechanics for the Needs of 21st-Century Physicists. *Duffy, Sehna, Schmittmann, Kardar, Goldenfeld*
 DMP: Superconductivity and Magnetism. *Klapwijk*
 GMAG/DMP/FIAP: Diluted Magnetic Semiconductors II. *Jamet*
 DMP/GMAG: Manganites, Titanates, and Vanadates. *Solov'yev*
 GMAG/DMP/FIAP: Magnetization Dynamics and Half Metals. *Stoll*
 DCP: Ultrafast Dynamics Using X-Rays and Electrons I. *Bucksbaum, Sokolowski-Tinten*
 DCOMP: General Theory: Density Functional Theory and Beyond. *Niu*
 GSNP/DMP: Friction. *Salmeron*
 DPOLY: Phase Transitions in Polymeric Systems I. *Han*
 DCP: Charge Transport in Nanostructures I. *Di Ventra, Yacoby*
 DFD: Fluid Dynamics of Animal Motion. *Shelley*
 DAMOP: Novel Phases in Quantum Gases. *Reimann*
 DBP: Nonequilibrium Fluctuations in Biomolecules. *Frauenfelder*
 DBP/GSNP/DPOLY: Cytoskeletal Dynamics and Cell Migration II. *Edelstein-Keshet*
 FIAP: Emerging Research Devices and Materials for the Microelectronics Industry II. *Zhirnov*
 DMP: Optical Properties of Metallic Nanostructures: Theory. *Gray*

midday

DCMP: New Developments in Supersolids. *Dorsey, Reppy, Balibar, Huse, Alles*
 DCMF: Nanowire Quantum Devices. *Thelander, Kodambaka, Meyer, Vidan, Bleszynski*
 DCMF: Detection and Applications of NMR and MRI at Microtesla Magnetic Fields. *Moessle, Burghoff, Appelt, Espy, Romalis*
 DPOLY: Dynamics in Polymeric Systems. *Ediger, Lodge, Larson, Dutcher, McKenna*
 DCMF: Unusual Transport Phenomena in Chalcogenides. *Abrikosov, Husmann, Parish, Cava, Hu*
 DBP: Cell Motility. *Mahadevan, Ryu, Julicher, Goldstein, Fletcher*
 FPS: Current Issues in Climate Change. *Solomon, Nychka, Randall, Kiehl*
 GMAG/DMP/FIAP: Magneto-optics and Spin Dynamics. *Pacuski*
 GMAG/FIAP: High-Anisotropy Magnetic Nanoparticles and Composite Materials. *Chepul'sky*
 GSNP/DBP: Nonequilibrium Thermodynamics of Small Systems. *Ritort*
 DCP: Ultrafast Dynamics Using X-Rays and Electrons II. *Chergui, Chen, Anfinrud*
 DMP: Superlattices and Oxides on Silicon. *Nakhmanson*
 GSNP: Jamming II. *van Hecke*
 DPOLY: Phase Transitions in Polymeric Systems II. *Wang*
 DPOLY/DBP: Organic Based Magnetism and Organic Spintronics. *Awaga*
 DCP: Charge Transport in Nanostructures II. *Samuelson, Schoeller*
 DMP/DCOMP: Computational Nanoscience VIII: Nanotransport, Contact, and Conduction. *Ghosh*
 DMP: Carbon Nanotubes: Chemistry. *Strano*
 DBP: Nonlinear Dynamics of Neuronal Systems. *van Hemmen*
 GIMS: Instrumentation and Metrology for Fundamental Physics. *Schwab*
 FIAP: Negative Differential Resistance I. *Kiehl*

afternoon

DCMP: Quantum Coherence in Superconducting Devices. *Clarke, Oliver, Semba, Il'ichev, Bauch*
 DBP: Molecular Motors (Biophysical Society Symposium). *Johnson, Patel, Smith, Catalano*
 DCMF: Magnetotransport in Organic Conductors and Semiconductors. *Bussmann, Lupton, Wohlgenannt, Hu, Bergeson*
 DPOLY/DCOMP: Computational Challenges in Simulations of Macromolecular Assemblies. *Shi, de Pablo, Fraaije, Balazs, Gersappe*
 FIAP: Crystallography Without Crystals. *Ourmazd, Fuoss, Spence, Saldin, Elser*
 GIMS: Keithley Award. *Irwin, Kilbourne, Richards, Cabrera, Zink*
 DCMF: Novel Phenomena in Quantum Fluid Helium-3. *Wolf, Kojima, Halperin, Okuda, Fisher*
 DMP: Superconductivity Theory: Phonons and Other Mechanisms. *Kamimura*
 DMP/GMAG: Thin Films and Superlattices. *Yamada*
 GMAG/DMP: Nanomagnetic Oxides. *Ramesh*
 DCP: Ultrafast Dynamics Using X-Rays and Electrons. *Weber, Corkum, Leone*
 DPOLY: Microphysical Properties of Block Copolymer Aggregates: Going Beyond Structure. *Spontak*
 DCP: Charge Transport in Nanostructures III. *Rabani, McEuen*
 DMP: Carbon Nanotubes: Transport and Thin Films. *Hong*
 FIAP: Negative Index Materials: Concepts to Applications II. *Shalae*
 FIAP: Negative Differential Resistance II. *Pati, Sergueev*
 DMP: Nanoscale Transport: Mostly Quantum Dots. *Amasha*

Friday, 9 March

morning

DCMP: Magnetic-Field-Driven Quantum Phase Transitions. *Rosch, Sebastian, Ruegg, Park, v. Löhneysen*
 DBP: Understanding DNA and RNA Machines. *Visscher, Croquette, Saleh, Wang, Ha*
 DCMF: DNA Organization Within Chromosomes. *Bloom, Heermann, Lionnet, Viovy, Poirier*
 DCMF: Quantum Order in Chiral Magnets. *Pfleiderer, Uchida, Binz, Wilhelm, Belitz*
 DBP: Elasticity of Biological Membranes: From Physical Principles to Biological Processes. *Keller, Huang, Groves, Huber, Zimmerberg*
 GSNP/DBP: Networks in Genetic Regulation. *Tang, Albert, Bassler, Mehta, Balazsi*
 DCOMP: Computational Nonequilibrium Many-body Physics: From Classical to Quantum Simulation. *Bonitz, Ruhl, Freericks, Schneider, Brandbyge*
 DMP: Novel Superconductors VII: Triplet Pairing and Time Reversal Symmetry Breaking. *Xia*
 GMAG/DMP/FIAP: Anomalous Hall Effect and Spin Orbit Coupling. *Cumings, Sinitsyn*
 GMAG/DMP/FIAP: Spin-Polarized Transport. *Tsoi*
 GSNP/DMP: Deformation and Fracture. *Bulatov*
 DCP: Charge Transport in Nanostructures IV. *Ratner*
 GQI/DAMOP: Quantum Information at the AMO/Condensed-Matter Interface. *DeMarco*
 DBP: Nucleic Acid Protein Interaction. *von Hippel*
 FIAP: Negative Index Materials: Concepts to Applications III. *Stockman*
 FIAP: Physics and Technology of III-V Semiconductors in IR and THz Imaging I. *Schneider*
 DMP: Nanoscale Transport: Molecules III. *Raikh*

midday

DCMP: Fractional Quantum Hall Effect: Spin Effects and Broken-Translational Symmetry States. *Muraki, Manfra, Pinczuk, Chen, Fertig*
 DBP: Collective Motions of Living and Nonliving Self-Propelled Particles. *Bertozzi, Grunbaum, Hubler, Showalter, Kapral*
 DCMF: Exotic Electronic Structures of Complex Materials and Phases. *Osterwalder, Miller, Shin, Rotenberg*
 DPOLY: Assembly and Organization in Polymeric Systems. *Pojman, Hudson, Krausch, Eisenberg, Ortiz*
 GSNP/DCMP: Fluctuating Random Solids and their universal properties. *DiDonna, Xing, Frey, Plischke*
 FIAP: Towards Medium-Temperature Proton Conductors for Fuel-Cell Applications. *Angell, Gervasio, Benicewicz, Sayir, Berger*
 DBP: Nonequilibrium Thermodynamics. *Jarzynski, Szabo, Crooks, Seifert, Gottschalk*
 DMP/GMAG: Charge/Orbital Order in Complex Oxides. *Biermann*
 DMP/GMAG: Magnetic Nanostructures II. *Mihajlovic*
 DPOLY/DCOMP: Multiscale Modeling in Polymeric Materials. *Dobrynin*
 DCP: Charge Transport in Nanostructures V. *Lindsay*
 FIAP: Emerging Research Devices and Materials for the Microelectronics Industry III. *Xiong*
 FIAP: Physics and Technology of III-V Semiconductors in IR and THz Imaging II. *Helistö*