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Welcome to the 45th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics, held in Madison, Wisconsin at the Monona Terrace Convention Center.

The conference website is aps.org/units/damop/meetings/annual/index.cfm

The conference will open with the Prize Session at 8:00 a.m. on Tuesday, June 3 and continue with other exciting scientific sessions until 12:30 p.m. on Friday, June 6. In addition, a number of special events will take place during the conference.

Registration

Registration Desk (Level 4)

Registration hours are as follows:
Monday, June 2 2:00pm–8:00pm
Tuesday, June 3 7:00am–4:00pm
Wednesday, June 4 7:00am–4:00pm
Thursday, June 5 7:00am–3:00pm
Friday, June 6 7:00am–12:00noon

The conference registration fee includes all oral, poster, and plenary sessions, coffee breaks, the welcome reception on Monday, and the conference banquet Thursday evening.

Americans with Disabilities Act Statement

The APS and DAMOP wish to take any steps required to ensure that no individual with a disability is excluded, denied services, segregated, or otherwise treated differently due to the absence of auxiliary aids and services identified in the Americans with Disabilities Act. If any such services are necessary in order for you to participate in the DAMOP Meeting, please communicate your needs in advance to the APS Meetings Department at meetings@aps.org.

Wireless Access Available

Free wireless internet access, sponsored by DAMOP, is available throughout the convention center (in public areas only).

Audio/Visual Equipment

All rooms will be equipped with an LCD projector, screen, lapel microphone, and laser pointer. There will be switchboxes that will allow multiple laptop computers to be connected to the LCD projector. Please arrive approximately 15 minutes early to your session in order to test your computer display on the LCD projector. For sessions with more than 4 talks, you are encouraged to share your computer with other speakers, e.g. place your presentation on an adjacent speaker’s computer, in order to facilitate transitions between talks. There will be no laptops provided in the meeting rooms. Note: you are not allowed to use your own projectors at the meeting. If you require other A-V equipment such as a video projector or overhead projector, you must pay for the equipment yourself and order it directly through APS Meetings Department at meetings@aps.org.

Exhibits

Grand Terrace (Level 4)

Hours:
Tuesday, June 3–Thursday, June 5 9:00am–5:00pm

Exhibitor display tables will be open throughout the conference during the scientific sessions.

AdvR, Inc.
CAS Dataloggers
ColdQuanta, Inc.
IOP Publishing
M Squared Lasers Ltd
Menlo Systems, Inc.
MOG Lab
Newport Corp
NUFERIN
SAES Getters S.p.A.
Spectra-Physics, A Newport Corp Brand
Stable Laser Systems
TOPTICA Photonics, Inc.
Triad Technology Inc.
Vescent Photonics

APS Membership Desk

Grand Terrace (Level 4)

Tuesday, June 3 9:00am–4:00pm
Wednesday, June 4 9:00am–4:00pm
Thursday, June 5 9:00am–4:00pm

Stop by the APS Membership Desk if you have questions about APS membership or journal subscriptions.
APS Souvenir Store
Grand Terrace (Level 4)

Same hours as APS Membership Desk. Come browse our t-shirts, bumper stickers, and more.

Contact Congress
Grand Terrace (Level 4)

<table>
<thead>
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<td>Thursday, June 5</td>
<td>9:00am–5:00pm</td>
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<tr>
<td>Friday, June 6</td>
<td>9:00am–12:00pm</td>
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Q: What's the best-spent minute at the DAMOP Meeting?
A: Stopping by the Contact Congress booth to sign your name to letters to your congressional delegation on the importance of federal funding for basic research. It takes only a minute. By doing so, you are making your voice heard in Washington and helping to influence the funding levels for physics research and education. To amplify the impact, the APS Washington Office follows up each letter with a call or visit to congressional staff.

Don't Take Your Grant for Granted

The strongest and most persuasive advocates on Capitol Hill come from a senator or representative's constituents. That means you! If you live in the United States, you are qualified to write to your members of Congress.

Contact Congress is sponsored by the APS Washington Office. If you have any questions about what is happening in DC, just stop by the Contact Congress desk to ask the experts.
SPECIAL EVENTS

Monday, June 2

Graduate Student Symposium on Hybrid Atomic Systems

Monday, 8:30am–4:00pm
Hall of Ideas EF (Level 4)

DAMOP will again offer a graduate student symposium in conjunction with the DAMOP Meeting. While aimed primarily at graduate students, the symposium is open to all registered meeting participants. The theme for this year’s symposium will be “Hybrid Atomic Systems.” The symposium will provide an introduction to the myriad ways in which optical and atomic physics and techniques are connecting with different fields of research including nanomechanics at the quantum limit, macroscopic gravitational wave detectors, superconducting circuits, and solid state spin ensembles. The presentation schedule is below.

Symposium participants must pre-register by May 16, 2014. There will be no on-site registration for this event. Symposium participants must also register for the conference. The Symposium fee of $50 will cover the costs of the presentations, lunch and refreshments.

8:30am Welcome and Introductions
9:00am Jacob Taylor, NIST: Hybrid quantum optical electrical and nanomechanical systems
10:15am Coffee Break
10:45am Nergis Mavalvala, MIT: Gravitational wave detectors: Light-mirror interactions on macroscopic scales
12:00noon Lunch
1:15pm Andreas Wallraff, ETH Zurich: Quantum Optics with Superconducting Circuits and Hybrid Systems
2:30pm Coffee Break
2:45pm Paola Cappellaro, MIT: Controlling quantum spins

Professional Skills Workshop for Women

Monday, 8:30am–4:00pm
Hall of Ideas G (Level 4)

Professional Skills Development Workshops are designed to provide women physicists with professional training in effective negotiation and communication skills, as well as a special opportunity for networking. Participation is open to female postdocs and early-career female physicists. Participants must pre-register for the workshop by May 16, 2014. Learn more about the workshops at WomenInPhysics.org

8:30am Welcome and introductions
8:45am Workshop
10:15am Coffee Break
10:45am Workshop
12:00noon Lunch
1:00pm Workshop
2:30pm Coffee Break
2:45pm Workshop

DAMOP Executive Committee Meeting

Monday, 2:00pm–6:00pm
Hall of Fame Room (Level 2)

The DAMOP Executive Committee will meet in a closed session which begins at 2:00 pm. The open session begins at 3:30 pm and ends at 6:00 pm.

Welcome Reception

Monday, 6:00pm–9:00pm
Rooftop Gardens (Level 6)

All registered attendees are welcome to attend. The reception is included in the registration fee.

TAMOC Business Meeting

Monday, 8:00pm–10:00pm
Hall of Ideas G (Level 4)

A meeting for the Theoretical Atomic, Molecular, and Optical Community.
Tuesday, June 3

Session A1: Prize Session
Tuesday, 8:00am–10:00am
Ballroom ABCD (Level 4)

This year, the opening prize session of the conference will honor three APS prize and award winners:

**Davisson-Germer Prize in Atomic or Surface Physics:**
Nora Berrah, University of Connecticut

**Will Allis Prize for the Study of Ionized Gases:**
David Graves, University of California, Berkeley

**Maria Goeppert Mayer Award:**
Ana Maria Rey, JILA, University of Colorado

Physical Review Staff Lunch Meeting
(Invitation Only)
Tuesday, 12:00pm–2:00pm
Hilton Madison Monona Terrace, Founders Room, 2nd Floor

For the staff of Physical Review.

DAMOP Fellowship Committee Luncheon
Tuesday, 12:30pm–2:00pm
Meeting Room O (Level 4)

Topical Group on Precision Measurement & Fundamental Constants Executive Committee Meeting
Tuesday, 12:30pm–2:00pm
Meeting Room P (Level 4)

Women Scientists in DAMOP Reception
Tuesday, 5:30pm–7:00pm
Community Terrace (Level 2)

Women graduate students and postdoctoral fellows are especially encouraged to attend. Refreshments will be served.

Topical Group on Precision Measurements & Fundamental Constants Business Meeting & Social Outing
Tuesday, 6:15pm
Meeting Room L (Level 4)

Public Lecture
Tuesday, 7:30pm
Ballroom AB (Level 4)

**Michael Turner**, University of Chicago, Past-President American Physical Society

**Talk Title:**
Dark Side of the Universe: Beyond stars and the starstuff we are made of

**Abstract:**
The sky is filled with hundreds of billions of galaxies, all lit up by their stars. However, stars account for less than one percent of the material in the Universe, and galaxies are held together by a new form of matter—dark matter—that accounts for 1/3 of the stuff in the Universe. The other 2/3 exists as in an even more mysterious form—dark energy—which is causing the expansion of the Universe to speed up, rather than slow down and controls its destiny. Though invisible to telescopes, the dark side of the Universe has shaped what we see today and controls our destiny.

**Biography:**
Michael S. Turner is a theoretical astrophysicist and the Bruce V. and Diana M. Rauner Distinguished Service Professor at the University of Chicago. He is also Director of the Kavli Institute for Cosmological Physics at Chicago, which he helped to establish, and the past-President of the American Physical Society, the 50,000 member organization of physicists.

Turner was born in Los Angeles, CA, and attended public schools there; he received his B.S. from Caltech (1971), his M.S. (1973) and Ph.D. (1978) from Stanford (all in physics). He holds an honorary D.Sc. (2005) from Michigan State University and was awarded a Distinguished Alumnus Award from Caltech in 2006. Turner helped to pioneer the interdisciplinary field of particle astrophysics and cosmology, and with Edward Kolb initiated the Fermilab astrophysics program which today accounts for about 10% of the lab’s activities. He led the National Academy study Quarks to the Cosmos that laid out the strategic vision for the field. Turner’s scholarly contributions include predicting cosmic acceleration and coining the term dark energy, showing how quantum
fluctuations evolved into the seed perturbations for galaxies during cosmic inflation, and several key ideas that led to the cold dark matter theory of structure formation. His honors include Warner Prize of the American Astronomical Society, the Lilienfeld Prize of the American Physical Society (APS), the Klopfst Award of the American Association of Physics Teachers, the Heineman Prize (with Kolb) of the AAS and American Institute of Physics, the 2011 Darwin Lecture of the Royal Astronomical Society and 2013 Ryerson Lecture at the University of Chicago.

Turner's twenty-plus former Ph.D. students hold faculty positions at leading universities around the country (e.g., Chicago, Caltech and University of Michigan), at national laboratories (Fermilab, JPL, and Argonne) and on Wall Street. He has served as Chief Scientist at Argonne National Laboratory (2006 to 2008), Assistant Director for the Mathematical and Physical Sciences at the National Science Foundation (2003 to 2006), Chair of the Department of Astronomy and Astrophysics (1997 to 2003), and President (1989 to 1994) and Chairman of the Board (2009 to 2012) of the Aspen Center for Physics.

Turner's current national service includes membership on the NRC's Committee on Science, Engineering and Public Policy (COSEPUP) and on the Senior Editorial Board of Science Magazine, Chairmanship of the OECD Global Science Forum's Astroparticle Physics International Forum, a member of the Board of Directors of the Fermi Research Alliance, the Secretary of Class I of the National Academy of Sciences, and the founding Chair of ScienceCounts, a brand new 501(c)3 organization that promotes the awareness and support of science.

**Wednesday, June 4**

**DAMOP15 Program Committee Luncheon**

*Wednesday, 12:30pm–2:00pm*

*Meeting Rooms OP (Level 4)*

The program committee for the DAMOP15 meeting will discuss their ideas for next year’s meeting in Columbus, Ohio and the APS March Meeting 2015. All program committee members active in 2014 are invited to attend.

**DAMOP Graduate Thesis Award Committee Luncheon**

*Wednesday, 12:30pm–2:00pm*

*Meeting Room Q (Level 4)*

**Tutorial for Authors and Referees**

*Wednesday, 4:00pm–5:30pm*

*Meeting Rooms KLMN (Level 4)*

Editors from *Physical Review Letters* and *Physical Review Applied* will provide information and tips for our less experienced referees and authors. This session is aimed at anyone looking to submit to or review for any of the APS journals, as well as anyone who would like to learn more about the authoring and refereeing processes. Topics for discussion will include advice on how to write good manuscripts, similarities and differences in writing referee reports for PRL and PR, and other ways in which authors, referees, and editors can work together productively. Following a short presentation from the editors, there will be a moderated discussion. Light refreshments will be served.

**PRA-PRL Editorial Board Reception and Dinner (Invitation Only)**

There will be a cocktail reception for the members of the Physical Review A and Physical Review Letters Editorial Boards at the headquarters hotel, the Hilton Madison at 6:30pm. This will be followed by separate dinners for the individual boards of PRA and PRL.

**PRA/PRL Reception**

*Wednesday, 6:30pm–7:15pm*

*Hilton Madison Monona Terrace, Capitol Club, 14th Floor*

**PRA Dinner & Meeting**

*Wednesday, 7:15pm–10:00pm*

*Hilton Madison Monona Terrace, Founders Room, 2nd Floor*

**PRL Dinner & Meeting**

*Wednesday, 7:15pm–10:00pm*

*Hilton Madison Monona Terrace, La Follette Room, 2nd Floor*
Meet the APS Journal Editors

Thursday, 4:00pm–5:30pm
Grand Terrace (Level 4)

The editors of the APS journals invite you to join them for conversation and light refreshment. The editors will be available to answer questions, hear your ideas, and discuss any comments about the journals. All are welcome.

DAMOP Business Meeting

Thursday, 4:30pm–6:00pm
Meeting Room O (Level 4)

All meeting attendees are invited to attend to hear about unit finances and other issues pertaining to DAMOP.

Conference Banquet

Thursday, 7:00pm–9:30pm
Exhibition Hall AB (Level 1)

Following dinner, DAMOP prizes, awards and fellowships will be presented.

The after dinner talk will be given by Professor Francis Halzen, of the Wisconsin IceCube Particle Astrophysics Center and Department of Physics, University of Wisconsin, Madison. Professor Halzen is the Hilldale and Gregory Breit Professor and principal investigator of the IceCube project, which recently enabled the first detection of cosmic neutrinos a discovery named the 2013 Physics World Breakthrough of the Year. We will be treated to a description of this research adventure. His talk title and abstract follow.

Evidence for High-Energy Extraterrestrial Neutrinos at the IceCube Detector

The IceCube project has transformed one cubic kilometer of natural Antarctic ice into a neutrino detector. The instrument detects 100,000 neutrinos per year in the GeV to PeV energy range. Among those we have recently isolated a flux of extraterrestrial neutrinos. I will discuss the instrument, the analysis of the data and the significance of the discovery of cosmic neutrinos.

DAMOP 2014 Bike Ride

On the last day of the meeting, Friday June 6, local AMO physicists Jim Lawler and Thad Walker are organizing a bike ride for DAMOP attendees. Southern Wisconsin is a pioneer in rails-to-trails conversions, and access to about 70 miles of bicycle trails goes right past the DAMOP conference site. The trails have very gentle hills and have only the occasional road crossing as they travel through the Wisconsin countryside with its dairy farms, cheese factories, breweries, and ever plentiful bars.

Bicycle rentals are being arranged for DAMOP participants. We have posted more information at [http://www-atoms.physics.wisc.edu/DAMOP%20Bicycle%20Excursion.pdf](http://www-atoms.physics.wisc.edu/DAMOP%20Bicycle%20Excursion.pdf), and this information will be updated with more specifics as the meeting approaches. This will be an out-and-back ride, so the ride can be as short or long as you like, and people of all fitness levels will enjoy the ride. Those interested in a very strenuous ride can even ride the route for the proposed Chicago 2016 Olympics.

Meals

There are many restaurants within easy walking distance of the Monona Terrace Convention Center, and many more are accessible by nearby public transportation. The website has a useful restaurant guide.

A light continental breakfast will be provided for registered meeting attendees at 10:00 am (Tuesday to Friday) during the coffee breaks.
**Program Format**

Program Time-Blocks
- Tuesday: A–D
- Wednesday: G–K
- Thursday: L–Q
- Friday: T–U

There are four time blocks for each day of the meeting. (Tuesday through Thursday: Oral sessions at 8:00am; 10:30am and 2:00pm; Poster sessions at 4:00pm on Tuesday and Wednesday and at 2:00pm on Thursday. Friday, two sets of oral sessions at 8:00am and 10:30am) The time blocks are designated in alphabetical order beginning with time block “A” on Tuesday at 8:00am, and ending with time block “U” designating the 10:30am session on Friday. See the Epitome for details.

**Poster Codes**
Posters are numbered sequentially.

**Poster Presentations**
If you are presenting a poster, please be sure to have your poster up prior to the start of the session to which you have been assigned, and taken down immediately at the end of the session. APS will not be responsible for posters left up after the end of each poster session. No A-V is allowed in the poster sessions. Posters will be on display from 10:00am to 6:00pm on Tuesday and Wednesday and from 10:00am to 4:00pm on Thursday. Consult the Poster Session Schedule (below) for exact times and a breakdown of poster topics.

**Poster Session Schedule**
**Session D1: Poster Session I**
- **Tuesday, June 3**
- **4:00pm–6:00pm**
- *Exhibition Hall AB (Level 1)*

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<tr>
<td>01-37</td>
<td>Cold Atoms, Molecules and Plasmas</td>
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<tr>
<td>38-63</td>
<td>Atomic and Molecular Structure and Properties</td>
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<tr>
<td>64-70</td>
<td>Matter Wave Interferometry</td>
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<tr>
<td>71-84</td>
<td>AMO-Based Sensors Fundamental Physics and Applications</td>
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<tr>
<td>85-106</td>
<td>Coherent and Ultracold Spins</td>
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<td>107-137</td>
<td>Photon Interactions with Atoms, Ions and Molecules</td>
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**Session K1: Poster Session II**
- **Wednesday, June 4**
- **4:00pm–6:00pm**
- *Exhibition Hall AB (Level 1)*

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<td>65-75</td>
<td>Hybrid Q Systems</td>
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<td>76-87</td>
<td>Quantum Coherent Control</td>
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<tr>
<td>88-119</td>
<td>Photon Interactions with Ions, Atoms and Molecules</td>
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<td>120-191</td>
<td>Postdeadline</td>
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**Session Q1: Poster Session II**
- **Thursday, June 5**
- **2:00pm–4:00pm**
- *Exhibition Hall AB (Level 1)*

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<td>Precision Measurements</td>
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<td>Individual Qubit Systems</td>
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<td>102-111</td>
<td>Quantum Optics</td>
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<td>112-116</td>
<td>Fundamental Issues</td>
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<tr>
<td>117-151</td>
<td>Photon Interactions with Atoms, Ions and Molecules</td>
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**Guidelines for Speakers**

**ORAL PRESENTATIONS**
Please arrive at least 15 minutes prior to the scheduled time of your talk. Contributed papers are allocated 12 minutes each—10 minutes for presentation and 2 minutes for questions from the audience, unless otherwise specified.

Invited papers are allocated 30 minutes—25 minutes for presentation and 5 minutes for questions from the audience.

**GUIDELINES FOR SESSION CHAIRS**
If you are experiencing technical problems in your session, there will be a telephone with instructions in the session room that you may use to call for assistance from an A-V technician who will come to your session room.
Note: Occasionally (and unfortunately) the chair for a session does not appear, in which case we ask that the first presenter serve as chair of the session.

1. Prior to the session, check the Program Changes Board in the registration area to see if any papers in the session you are chairing have been withdrawn.

2. Arrive at the meeting room about 15 minutes prior to the start of the session and familiarize yourself with the controls for lights, microphones, A-V equipment and the timer. If you encounter problems, you should immediately alert the Registration Desk and/or the A-V specialist.

3. Start the session on time. Briefly introduce yourself, announce the first paper and author, and start the timer.

4. Please adhere to the time schedule listed in the Bulletin, so that simultaneous sessions are as closely synchronized as possible. Many attendees move from session to session in order to hear specific papers.

5. The allotted time for contributed papers is 12 minutes; for invited papers—30 minutes. If you are chairing a session that includes both contributed and invited papers please be aware of the different times allocated for each and set the timer as follows:

   **Contributed papers:** set timer for 8 minutes to give initial warning, then set the final bell to go off 2 minutes later. When this time is up, allow 2 additional minutes for questions relating to the paper, thank the speaker and promptly introduce the next paper and speaker.

   **Invited papers:** set timer for 20 minutes for initial warning, and the final bell to ring 5 minutes later. Then set the timer for 5 additional minutes for questions from the audience. Explain the timing system to the audience prior to the start of the session, and as often during the session as you think necessary.

6. The By-Laws of the Society request that speakers be asked to stop when their allotted time is up in a courteous but firm manner. Keep in mind that the session must end on time, and that the last speaker has just as much right to an audience as does the first speaker.

7. Should a speaker fail to appear, call the author of the first supplementary paper assigned to the session, if any. If that author is not in attendance, call the author of the following supplementary paper, and so on. If there are no supplementary papers assigned to your session, allow the preceding discussion to continue, or recess the session until it is time for the next scheduled paper. At the end of the session, call again for the regularly scheduled paper, if time allows.

8. When two or more papers are submitted by an author, only one of these will be assigned a scheduled presentation time within that session. It is assumed that the first author listed in the abstract is the person who will present the paper at the meeting. Other papers with the same first author will be assigned as supplementary papers, to be called for if time permits. If you notice that an author who has already presented a paper rises to present another paper, you should request that this paper be presented at the end of the regular program as a supplementary paper, if time allows.

9. If any problems arise that you are unable to handle relative to successfully chairing the session, please inform the A-V tech in the room, or go immediately to the APS Registration Desk to alert the APS staff. Any time used by the speaker and/or technicians to set up laptops for LCD (PowerPoint) presentations is deducted from the time allocated for the talk.