

The American Physical Society Topical Group on Precision Measurements and Fundamental Constants

Newsletter No. 40

March 2014

Marianna Safronova, University of Delaware
Secretary-Treasurer, GPMFC

2014 DAMOP MEETING

The 2014 Division of Atomic, Molecular and Optical Physics (DAMOP) meeting will be held at the Monona Terrace Convention Center in Madison, Wisconsin June 2-6, 2014. The early registration deadline is April 18. DAMOP meeting information is available at <http://www.aps.org/units/damop/meetings/annual>.

GPMFC will sponsor three invited and three contributed DAMOP sessions:

TUESDAY, JUNE 3

Session B6 10:30 am

Focus Session: Precise Atomic Theory and Measurements Room: Hall EH

Invited Speakers: Krzysztof Pachucki, Marianna Safronova

WEDNESDAY, JUNE 4

Session G2 8:00am

Invited Session: Precision Measurements Room: Ballroom CD

Invited Speakers: Jun Ye, Klaus Blaum, Alex Cronin, Mark Kasevich

Session H6 10:30am

Atomic Clocks Room: Hall EH

THURSDAY, JUNE 5

Session M6 8:00am

Atomic Magnetometry Room: Hall EH

Session N2 10:30am

Focus Session: EDM and Fundamental Symmetry Tests Room: Ballroom CD

Invited Speakers: Gerald Gabrielse, Eric Cornell

Session P6 4:00pm

Atom Interferometry and Precision Measurements Room: Hall EH

This year DAMOP special events will include

Professional Skills Workshop for Women on Monday, June 2.

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 using the meeting registration form. Learn more about the workshops at www.WomenInPhysics.org.

TOPICAL GROUP ANNUAL MEETING

The 2014 annual meeting, business meeting, and executive committee meeting of the Topical Group will be held during the DAMOP meeting in Madison, WI, June 2–6, 2014 (see above). The GPMFC business meeting and social outing will be on Tuesday, June 3 at 6:15pm.

CONGRATULATIONS TO OUR 2013 APS FELLOWS:

Susan V. Gardner, University of Kentucky, for pioneering work in strongly interacting physics and its interplay with weak decays and for numerous insights into important tests of CP violation and the Standard Model of particle interactions.

W. Michael Snow, Indiana University, for his contributions to the understanding of fundamental nuclear and particle interactions through innovative studies employing very low energy neutrons and the development of measurement techniques in neutron science.

APS FELLOW NOMINATIONS

The Topical Group is entitled to propose two candidates for Fellowship in the APS. The Fellowship Committee is chaired by Zheng-Tian Lu (lu@anl.gov). Please consider nominating an accomplished colleague for this honor. Nomination instructions and the online form can be found at <http://www.aps.org/programs/honors/fellowships/nominations.cfm>

The deadline for GPMFC nominations is May 1, 2014.

2014 GPMFC ELECTION

In 2014, we will be electing two new Members at Large of the Executive Committee and a new Vice Chair who is in the succession for Chair. Please contact the Chair of the Nominating Committee, Mike Snow (wsnow@indiana.edu) to suggest nominees.

GPMFC TRAVEL SUPPORT FOR YOUNG SCIENTISTS

Each year, the Topical Group provides partial travel support to several graduate students and post-docs to present contributed papers at scientific meetings in the area of precision measurement and fundamental constants. Support is available to attend either the GPMFC annual meeting (DAMOP in 2014) or any other meeting in which GPMFC is sponsoring a session. For more information and application instructions, go to: <http://www.aps.org/units/gpmfc/meetings/travel.cfm>

UPCOMING CONFERENCES AND MEETINGS OF INTEREST
APRIL - OCTOBER 2014

APS APRIL MEETING 2014

The 2014 APS April meeting will be held at the Savannah International Trade & Convention Center in Savannah, Georgia, April 5-8, 2014.

The meeting information is available at <http://www.aps.org/meetings/april>.

APS list of the GPMFC unit contributed sessions is available at http://flux.aps.org/meetings/YR14/APR14/Unit_APR14_GPMFC.pdf

ICAP 2014

The 24th International Conference on Atomic Physics, hosted by the Joint Quantum Institute, will be held on August 3-8, 2014 at the historic Mayflower Renaissance Hotel in Washington, D.C. Registration is now open. More information and a list of confirmed speakers can be found at <http://icap2014.org>.

50 Years of Quarks and Color

<http://www.umdphysics.umd.edu/qc2014>

April 11-12, 2014

University of Maryland, College Park
College Park, MD

2014 IEEE International Frequency Control Symposium (IFCS)

<http://ifcs2014.org/>

May 19 – 22, 2014

Taipei, Taiwan

International Conference on Precision Physics of Simple Atomic Systems (PSAS)

<http://www.if.ufrj.br/~lenz/PSAS2014/PSAS2014.html>

May 25-30, 2014

CBPF, Rio de Janeiro, Brazil

28th European Frequency and Time Forum (EFTF)

<http://www.eftf-2014.ch/>

June 23-26 2014

Neuchâtel, Switzerland

**Satellite workshop to the European Frequency and Time Forum, EFTF
FREQUENCY STANDARDS WITH TRAPPED IONS**

<http://www.ptb.de/emrp/ion-clocks-home.html>

27 June 2014

The University of Neuchâtel
Neuchâtel, Switzerland

Conference of the European Group on Atomic Systems (EGAS)

<http://egas46.univ-lille1.fr/>

July 1-4, 2014

Lille, France

6th International Workshop "From Parity Violation to Hadronic Structure and more..." (PAVI)

July 14 -18, July 2014

<http://pavi14.syr.edu/>

Skaneateles, NY, United States

Particles and Nuclei International Conference (PANIC)

<http://panic14.desy.de>

August 24-29, 2014

Hamburg, Germany

17th International Conference on the Physics of Highly Charged Ions (HCI)

<http://www.cab.cnea.gov.ar/hci2014/>

August 31- September 5, 2014

San Carlos de Bariloche, Argentina

European Conference on Trapped Ions

http://www.quantum.physik.uni-mainz.de/ecti2014_index.html.de

September 15-19, 2014

Schloss Waldthausen, Germany

International Conference on Atomic and Molecular Data and Their Application (ICAMDATA)

<http://www.icamdata.uni-jena.de>

September 22 – 25, 2014

Jena, Germany

4th Joint Meeting of the APS Division of Nuclear Physics and the Physical Society of Japan

October 7-11, 2014

Waikoloa, HI

Frontiers in Optics (FiO) /Laser Science (LS) 2014 conference

<http://www.frontiersinoptics.com/home/about-fio-ls/>

19-23 October 2014

Tucson, AZ, USA

If a meeting of interest to GPMFC members is not on the list above please contact Marianna Safronova at msafrono@udel.edu so it can be added to the list in the future.

2013 - 2014 GPMFC EXECUTIVE COMMITTEE (YEAR TERM ENDS IN PARENTHESES)

Chair:

Michael Romalis (2014)
Princeton University
romalis@princeton.edu

Member at Large:

Bill Marciano (2014)
Brookhaven National Laboratory
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Chair Elect:

Dmitry Budker (2014)
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Member at Large:

Holger Müller (2014)
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Vice Chair:

Zheng-Tian Lu (2014)
Argonne National Lab
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Member at Large:

Eric Hudson (2015)
UCLA
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Past Chair:

Jun Ye (2013)
NIST/ University of Colorado-JILA
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Member at Large:

Tanya Zelevinsky (2015)
Columbia University
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Secretary/Treasurer:

Marianna Safronova (2016)
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Member at Large:

Michael Snow (2016)
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Member at Large:

Jason Stalnaker (2016)
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