

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

Newsletter No. 42

May 2016

Marianna Safronova, University of Delaware
Secretary-Treasurer, GPMFC

2016 ELECTION RESULTS

Congratulations to the newly-elected incoming GPMFC officers:

Vice Chair: Thad Walker, University of Wisconsin-Madison

Secretary-Treasurer: Malcolm Boshier, Los Alamos National Laboratory

Members-at-Large: Subhadeep Gupta (University of Washington)
James Thompson (JILA)

We thank the members of the nominating committee and all of the candidates!

2016 APS DAMOP MEETING

GPMFC meets with the DAMOP meeting in 2016.

The 47th Regular Meeting of of the APS Division of Atomic, Molecular and Optical Physics will take place on May 23-27, 2016 in Providence, RI. All meeting activities—including scientific sessions and ancillary events—will take place at the Rhode Island Convention Center. The Omni Providence is the headquarters hotel.

DAMOP meeting information is available at <https://www.aps.org/units/damop/meetings/annual/>.

GPMFC ANNUAL MEETING

The 2016 annual meeting, business meeting, and executive committee meeting of the GPMFC Topical Group will be held during the DAMOP (see above).

GPMFC Business Meeting and Social Outing (at DAMOP) will be on Tuesday, May 24, 6:15PM. We will meet at room 551AB at 6:15 PM and proceed to a local restaurant. Join us!

List of GPMFC invited and contributed DAMOP meeting sessions:

TUESDAY, MAY 24

C7 Atomic Clocks

Room: 553AB Chair: David Phillips, Harvard-Smithsonian Center for Astrophysics

WEDNESDAY, MAY 25

G5 Atomic Magnetometers I

Room: 551AB Chair: Jonathan Weinstein, University of Nevada, Reno

H5 Electric-Dipole Searches and Tests of Fundamental Symmetries

Room: 551AB Chair: Elizabeth Petrik, Harvard University

J5 Precision Measurements

Room: 551AB Chair: Michael Romalis, Princeton University

THURSDAY, MAY 26

N5 Atom Interferometers

Room: 551AB Chair: Jason Hogan, Stanford University

P2 Invited

GPMFC Sponsored session

Precision Laser Spectroscopy

Room: Ballroom B Sponsor: GPMFC Chair: John Doyle, Harvard University

Invited Speakers: Hidetoshi Katori, Jun Ye, David Patterson, Thomas Udem

FRIDAY, MAY 27

T3 Invited

GPMFC Sponsored session

Astrophysical Detectors

Room: Ballroom D Chair: David DeMille, Yale University

Invited Speakers: Paul Hamilton, Jason Hogan, Asimina Arvanitaki, Victor Flambaum

T6 Atomic Magnetometers II

Room: 552AB Chair: Thad Walker, University of Wisconsin-Madison

U5 Precision Experiments

Room: 551AB Chair: Ronald Walsworth, Harvard CfA

CONGRATULATIONS TO OUR 2015 APS FELLOWS

Ricardo Decca, Indiana University - Purdue University

Citation: For pioneering precision experiments that have led to a deeper understanding of the Casimir force, and stringent constraints on new fundamental interactions at sub-micron ranges.

Stephan Schlamminger, National Institute of Standards and Technology

Citation: For a precision measurement of the Newtonian constant of Gravitation G and a precision measurement of the Planck constant h .

APS FELLOW NOMINATIONS

The Topical Group is entitled to propose two candidates for Fellowship in the APS. The Fellowship Committee is chaired by Thad Walker (tgwalker@wisc.edu). 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, 2017.

UPCOMING CONFERENCES AND MEETINGS OF INTEREST

DAMOP 2016

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The Seventh Meeting on CPT and Lorentz Symmetry

Indiana University, Bloomington, Indiana, U.S.A.

June 20-24, 2016.

<http://www.indiana.edu/~lorentz/cpt16/>

ICAP2016 Satellite Workshop: Workshop on Optical Clocks View

KRISS (<http://kriss.re.kr>), Daejeon, Korea

July 22 – 23, 2016.

<http://www.icap2016.org/en/event/satellite.php>

The 25th International Conference on Atomic Physics, ICAP 2016

Seoul, Korea.

July 24 - 29, 2016

<http://www.icap2016.org/en/index.php>

The 4th European Conference on Trapped Ions (ECTI)

Arosa, Switzerland

Aug. 29 - Sept. 2, 2016

<http://www.tiqi.ethz.ch/ecti-2016.html>

12th European Conference on Atoms, Molecules and Photons (ECAMP 2016)

Incorporating 48th EGAS

Frankfurt am Main, Germany

5 - 9 September 2016

International Nuclear Physics Conference, INPC 2016

Fundamental Symmetries and Interactions in Nuclei program

<http://inpc2016.com/>

Adelaide, South Australia

September 11-16, 2016,

18th International Conference on the Physics of Highly Charged Ions (HCI 2016)

Kielce, Poland

11-16 September 2016

10th International Conference on Atomic and Molecular Data and Their Applications

(ICAMDATA 2016), Gunsan, Korea

25-29 September 2016

4th International Workshop on the Physics of fundamental Symmetries and Interactions – PSI2016

Paul Scherrer Institute, Switzerland

October 17-20, 2016