



The American Physical Society

Topical Group on Precision Measurement and Fundamental Constants

Newsletter No. 35

November 2010

Fred E. Wietfeldt, Tulane University
Secretary-Treasurer, GPMFC

April 2011 APS Meeting

The April 2011 meeting of the APS will be held at the Hyatt Hotel Orange County, Garden Grove, California, from April 30 to May 3, 2011. The Hyatt is immediately adjacent to Anaheim and one mile from Disneyland. The deadline for contributed abstracts is Jan. 14. Go to <http://www.aps.org/meetings/april/index.cfm> for general information and registration.

GPMFC is co-sponsoring two invited sessions: Advances in high-precision spectroscopy for astrophysics (with DAP) and Quantum Technologies for Gravitational Wave Detection (with GGR).

Topical Group Annual Meeting

The 2011 annual meeting, business meeting, and executive committee meeting of the Topical Group will be held during the April APS meeting in Anaheim, CA, April 30 to May 3, 2011 (see above).

Student Travel Support

The Topical Group has funds available to support students to travel to our annual meeting and present research findings. Members who supervise and mentor are reminded to share this information with their students. We cannot cover all travel expenses, but we can defray most costs, up to a maximum of \$600 per student. To apply for travel support, simply contact the Secretary-Treasurer (Fred Wietfeldt, few@tulane.edu) **at the time you submit an abstract** to one of the meeting sessions sponsored by the Group. Support will be in the form of reimbursement. Students approved for support should save all receipts to be submitted with an APS Travel and Expense Report after the meeting.

Future Programs

One of the main goals of the Group is to present interesting and engaging programs that reflect both the diversity of interests of our membership and the common themes of precision measurement. Our program committee seeks topics for next year's meetings, and your suggestions are welcome, particularly in interdisciplinary, cross-cutting, or new areas. Members with ideas for future program topics should contact the Program Committee Zheng-Tian Lu (lu@anl.gov) or Jun Ye (jun.ye@nist.gov).

2011 APS Fellowship Nomination

The Topical Group is entitled to propose candidates for Fellowship in the APS. The Fellowship Committee is chaired by Jun Ye (jun.ye@nist.gov). Please consider nominating a worthy and accomplished colleague for this honor. See the APS website for nomination details.

2011 GPMFC Election

In the upcoming year 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, Michael Chapman (mchapman@gatech.edu) to suggest nominees.

NIST Precision Measurement Grants

The National Institute of Standards and Technology (NIST) awards Precision Measurement Grants to faculty members of U.S. universities or colleges for significant research in the field of fundamental measurement or the determination of fundamental constants. NIST sponsors these grants to encourage basic, measurement related research in universities and colleges and other research laboratories and to foster contacts between NIST scientists and those faculty members of academic institutions and other researchers who are actively engaged in such work. The Precision Measurement Grants are also intended to make it possible for researchers to pursue new ideas in areas where other sources of support may be difficult to find. Most years, two new grants in the amount of \$50,000 per year are awarded and are renewable for up to two years of additional funding. Recent GPMFC awardees include John Doyle (Harvard), Krzysztof Pachucki (Warsaw U.), Dallin Durfee (Brigham Young), David Weiss (Penn State) and Edmund G. Myers (Florida State). See <http://www.nist.gov/pml/div684/fcdc/pmg.cfm> for further details and application forms.

Upcoming Conferences and Meetings of Interest

6th Laser Ceramics Symposium
<http://www.fh-muenster.de/lcs-2010>
December 6-8, 2010
Muenster, Germany

APS April Meeting 2011
<http://www.aps.org/meetings/april/index.cfm>
April 30-May 3, 2011
Anaheim, CA

2011 Physics Teacher Education Coalition Conference
<http://www.ptec.org/conferences/2011/>
May 23-24, 2011
AT&T Executive Education and Conference Center, University of Texas at Austin
Austin, TX

42nd Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics
<http://www.aps.org/meetings/meeting.cfm?name=DAMOP11>
June 13-17, 2011
Marriott Atlanta Marquis Hotel and Conference Center
Atlanta, GA

2010-2011 GPMFC Executive Committee (year term ends in parentheses)

Chair:

Blayne Heckel (2011)
University of Washington
heckel@phys.washington.edu

Member-at-Large:

Zheng-Tian Lu (2011)
Argonne National Laboratory
lu@anl.gov

Chair Elect:

Jun Ye (2011)
NIST/ U. Colorado-JILA
junye@jilau1.colorado.edu

Member-at-Large:

Michael Chapman (2012)
Georgia Institute of Technology
michael.chapman@physics.gatech.edu

Vice Chair:

Stuart Freedman (2011)
University of California - Berkeley
sjfreedman@lbl.gov

Member-at-Large:

Kristan Corwin (2012)
Kansas State University
Corwin@phys.ksu.edu

Past Chair:

John Gillaspay (2011)
NIST
john.gillaspay@nist.gov

Member-at-Large:

Chen-Yu Liu (2013)
Indiana University - Bloomington
cl21@indiana.edu

Secretary/Treasurer:

Fred Wietfeldt (2013)
Tulane University
few@tulane.edu

Member-at-Large:

Mark Raizen (2013)
University of Texas, Austin
raizen@physics.utexas.edu

Member-at-Large:

David Kawall (2011)
University of Massachusetts - Amherst
kawall@physics.umass.edu