

2005 PMFC Election Candidates

Vice Chair (two candidates)

- [Maynard Scott Dewey](#)
- [Eric Hessels](#)

Executive Committee Member-at-Large (four candidates)

- [Kurt Gibble](#)
 - [Gerald Gwinner](#)
 - [William M. Klipstein](#)
 - [Christopher W. Oates](#)
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Vice Chair

Maynard Scott Dewey (Vice Chair Candidate)

Positions: Physicist (1986-present) Ionizing Radiation Division, NIST; Research associate, Princeton University (1984-1986); PhD, Princeton University, 1984.

Main Research Interests: Tests of the Standard Model via precise measurements of neutron beta-decay parameters; tests of special relativity via precise wavelength measurements of neutron capture gamma-rays realized using perfect crystal silicon.

Other Activities/Awards: Member APS GPMFC, DAMOP, DNP

Eric Hessels (Vice Chair Candidate)

Positions: Professor of Physics, York University (faculty member since 1992); Research Fellow, Notre Dame University (1991-92). Ph.D. Notre Dame University 1991.

Main Research Interests: Precision spectroscopy of few-electron atoms. Measurement of the helium 2 triplet P fine structure. Antihydrogen research.

Other Activities: APS Fellow, Canada Research Chair in Atomic Physics, Natural Sciences and Engineering Research Council Steacie Fellowship, Canadian Association of Physicists Hertzberg medal, APS Pipkin Award. Co-chair DAMOP meeting (Toronto, 1995). Recent Program Committees: Precision Physics of Simple Atomic Systems (Brazil 2004), International Conference on Low Energy Antiproton Physics (Germany 2005).

Executive Committee

Kurt Gibble (Executive Committee Member-at-Large candidate)

Positions: Associate Professor, Penn State University (2001-present); Assistant & Associate Professor, Yale University (1993-2001); Post-doc, Stanford University, 1991-93, Ph.D., JILA & University of Colorado, Boulder, (1990).

Main Research Interests: Laser-cooled atomic fountain clocks, ultra-stable lasers & optical frequency clocks, laser-cooled space clocks & tests of fundamental physics, ultra-cold atom-atom scattering.

Other Activities and Awards: Member APS (DAMOP, DLS, & GPMFC), OSA, & IEEE, Chair (2004) & Chair elect (2002) New Laser Scientist Conference of the APS DLS, Steering Committee of the Frequency Control Symposium, Nominating Committee GPMFC (2002), Yale Junior Faculty Fellowship (1996-1997), NIST Precision Measurement Grant (1995), NSF National Young Investigator (1994).

Gerald Gwinner (Executive Committee Member-at-Large candidate)

Positions: Assistant Professor, University of Manitoba, Canada (2003-present); Research Scientist, Max-Planck-Institute for Nuclear Physics, Germany (1997-2003); Postdoctoral Fellow, University of California at Berkeley (1995-1997); PhD, Stony Brook (1995)

Main Research Interests: Tests of fundamental symmetries at low energies: Lorentz invariance through laser spectroscopy of fast ions in storage rings, weak interaction studies with ultra-cold, laser-trapped radioactive atoms; ion trapping of short-lived radioactive ions, applied to nuclear astrophysics and weak interactions; precision measurements of electron-ion recombination

Other Activities and Awards: Member APS (DNP, DAMOP, TG/PMFC), DPG, CAP; 1995 Annual outstanding doctoral dissertation award, SUNY Stony Brook

William M. Klipstein (Executive Committee Member-at-Large candidate)

Positions: Supervisor (Advanced Radiometric and Gravity Sensing Instruments Group), Jet Propulsion Laboratory (1998-present); National Research Council Fellow, NIST, Gaithersburg (1996-1998); PhD, Univ. of Washington (1996); BA, Amherst College (1990) .

Main Research Interests: Precision instruments for scientific applications, with a focus on applications in space. Laser interferometry for gravity-wave detection (LISA) and Earth science applications; laser-cooled cesium atomic frequency standards for fundamental physics and timekeeping applications; tests for time reversal symmetry violation.

Other Activities and Awards: Member APS (DAMOP, DLS, TG/PMFC, FOE); Member IEEE; JPL “Level B” award for technical innovation; Dahlstrom Prize (UW, 1996).

Christopher W. Oates (Executive Committee Member-at-Large candidate)

Positions: Staff Member, Time and Frequency Division, NIST (1998-present); National Research Council Fellow, NIST (1995-1997); Ph.D., University of Colorado (1995); Research associate, NIST (1987-1988); B.S., Stanford (1984).

Main Research Interests: My research focuses on the development of state-of-the-art optical clocks/frequency standards based on laser cooled/trapped neutral atoms. This work includes ultra-high resolution laser spectroscopy and development of laser cooling techniques, and enables laboratory tests of drifts of fundamental constants. Other interests include precision measurements of atomic structure (e. g. lifetimes, hyperfine splittings, and recoil effects) using cold atoms.

Other Activities and Awards: Member APS (DAMOP, TG/PMFC); Department of Commerce Gold Medal 2001.