

**ANDREW J. MILLIS**  
**Curriculum Vitae,**  
**Jan 1, 2016**

**Address:**

Department of Physics  
Columbia University  
New York, NY 10027  
tel: 212 854 3336    fax: 212 854 3379  
email: millis@phys.columbia.edu

**Research Interests:**

Theoretical Condensed Matter Physics: many-body physics, quantum critical phenomena, superconductivity, physics and material science of novel materials, nonequilibrium phenomena, new computational methods.

**Employment:**

- Professor of Physics, Columbia University (2002-present)
- Chair, Department of Physics, Columbia University (2006-2009)
- Professor of Physics, Rutgers University (1999-2001)
- Professor of Physics, The Johns Hopkins University (1997-1998)
- Associate Professor of Physics, The Johns Hopkins University (1996-1997)
- Member of Technical Staff, A. T. & T. Bell Laboratories, (1988-1996)
- Postdoctoral Member of Technical Staff A. T. & T. Bell Laboratories (1986-1988).

**Other Appointments:**

- Associate Director for Physical Sciences, The Simons Foundation (2011-present)
- Trustee, Aspen Center for Physics (July 2010 to August 2014)
- Associate Director, University of Maryland-Rutgers Materials Research Science and Engineering Center (2000-02)
- Foreign Associate, Canadian Institute for Advanced Research (2000-present)

**Visiting Positions:**

- Professeur Invitee, College de France, Sept-Oct 2015
- Alliance Exchange Professor, Ecole Polytechnique, Jan-June 2012
- Chercheur Visiteur, CNRS and Ecole Polytechnique, France 2010

- Chercheur Visiteur, CNRS and Ecole Polytechnique, France, 2006
- Chercheur Visiteur, CNRS and ESPCI Lab, France, 2003
- GastProfessor, Universitat Bonn, 1996

**Education:**

- Ph.D., Physics, M.I.T., 1986
- Certificate of Advanced Study in Mathematics (with Distinction), Cambridge University, Cambridge, England, 1983
- A. B. (Magna cum Laude with highest honors in Physics), Harvard College, 1982.

**Professional Societies:**

American Physical Society, American Association for the Advancement of Science, Materials Research Society.

**Publications: 326    Invited Talks at Conferences: 92**

**Honors and Awards:**

- Fellow, American Association for the Advancement of Science, 2013.
- Fellow, American Physical Society, 1999
- A. T. & T. Bell Laboratories Ph. D. Scholar (MIT) 1984-1986
- Fulbright Scholar (Cambridge University) 1982-1983
- National Merit Scholar (Harvard College) 1978-1982

**Service to Profession:**

- Member-at-Large, Section on Physics, American Association for the Advancement of Science (2016-2018).
- Member, Scientific Advisory Board, arXiv (2016-).
- Section Lead, ASCR/BES Exascale Requirements Review, November 2015.
- Co-organizer, ICTP-Trieste Workshop on Interacting Fermions: Precision Theory and Experiment (July, 2015).
- Member, International Advisory Committee, Materials and Mechanisms of Superconductivity (M<sup>2</sup>S) Conference (2015).
- Member (Chair, 2013 and 2014) Officer Nominations Committee, American Physical Society Division of Condensed Matter Physics (2012-2014).
- Member, International Advisory Committee, Strongly Correlated Electron Systems (SCES) conference (2014).

- Member, Review Panel, Fine Center for Theoretical Physics, University of Minnesota (April 2013)
- Member, International Advisory Committee, TOPNES research collaboration (2011-present)
- Member, Proposal Review Panel, SLAC light source (2010 to 2012)
- Chair, Cuprate Subcommittee of Program Committee for 2012 Materials and Mechanisms of Superconductivity conference
- Co-organizer, Les Houches Summer School on Nonequilibrium Quantum field Theories (2012)
- Member, National Research Council Standing Committee on Condensed Matter Physics (2010 to 2013)
- Co-organizer, DMP Focus Session on Oxide Interfaces (2011 March meeting)
- Chair, Program Committee, Strongly Correlated Electron Systems Conference (2010)
- Co-organizer, “Materials by Design” Conference Kavli Institute for Theoretical Physics (2010)
- Member, Aspen Center for Physics Winter Conference Selection Committee (2010)
- Member, Scientific Advisory Panel, “Materials by Design” program, Kavli Institute for Theoretical Physics (2010)
- Co-organizer, “Workshop on Novel Computational Methods in Condensed Matter Physics”, Leiden University, (2010)
- Member, Aspen Center for Physics Winter Conference Selection Committee (2009)
- Chair, American Physical Society McGroddy (New Materials) prize committee (2008)
- Chair, Review committee for Physics Section of the School of Physics and Astronomy, University of Minnesota (2008)
- Member, Review committee, Theoretical Physics Division, Saclay Laboratory (2008)
- Member, Advisory Board, Materials with Novel Electronic Properties (MANEP) program, Switzerland (2007-present)
- Member, American Physical Society McGroddy (New Materials) prize committee (2007)
- Co-organizer, DCMP Focus Sessions on Surfaces of Correlated Electron Systems (2007)
- Chair, Aspen Center for Physics Public Lectures Committee (2006).
- Member, National Academy of Science MRSEC Review Team (2006-7)
- Organizer: Conference on Quantum Phenomena in Confined Dimensions (International Center for Theoretical Physics, Trieste) (2006)

- Scientific Secretary, Aspen Center for Physics (2004-5)
- Co-organizer, DCMP Focus Sessions on Magnetic Oxides (2004)
- Review Committee, Condensed Matter Sciences Division, Oak Ridge National Laboratories (2002)
- Member, American Physical Society Oliver E Buckley Prize Committee (2002)
- Chair, American Physical Society Oliver E Buckley Prize Committee (2001)
- Co-founder, US Summer School in Condensed Matter and Materials Physics (2000)
- Member Advisory board, Institute for Theoretical Physics (2000-03) (Chair, 2001-2); Co-chair, Correlated Electrons Gordon Conference 2000 (Vice-chair, 1998)
- General Member, Aspen Center for Physics, 1997-present;
- Co-organizer, 'Non-Fermi-Liquids' program and conference Institute for Theoretical Physics (1996)
- Co-organizer, DCMP Focus Sessions on Manganites (1996)
- Member, A. T. & T. Graduate Research Program for Women Scholarship Committee, 1993-1995

**Service to University:**

- Member, Earth Institute Internal Review Committee (2015)
- Member, Undergraduate curriculum committee (implemented reform of undergraduate curriculum 2011-2012)
- Science Honors Program Advisory Board (2009-present)
- Provost's Science Review Committee (2008-2009)
- Faculty Budget Group (2008-2009)
- Steering Committee of Department Chairs (2007-2009)
- Presidential Task Force on Undergraduate Education (2007-2009)
- Chair, Review Committee, Undergraduate Writing Program (2007-2008)
- Member, Academic Review Committee (2006-8)
- Chair, Department of Physics Graduate Curriculum Committee (implemented revision of graduate curriculum) (2004-2005)