

WILLIAM CARL LINEBERGER

Address:

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Personal:

Born December 5, 1939; Hamlet, North Carolina

Degrees:

BEE, 1961, Georgia Institute of Technology
MSEE, 1963, Georgia Institute of Technology
Ph.D., 1965, Georgia Institute of Technology

Appointments: (current in **bold**)

Assistant Professor Electrical Engineering (Modern Physics, Atomic Collisions) Georgia Institute of Technology, March-June, 1965
Research Physicist (Atmos. Phys.) and active duty, U. S. Army Ballistic Research Laboratory, Aberdeen Proving Ground, MD, 1965-68
Research Associate, Joint Institute for Laboratory Astrophysics, 1968-70
Member, Joint Institute for Laboratory Astrophysics, 1970-71
Fellow of JILA, 1971-present
Assistant Professor, Chemistry, University of Colorado, 1970-72
Associate Professor, Chemistry, University of Colorado, 1972-74
Professor, Chemistry, University of Colorado, 1974-85
Visiting Professor, Stanford University, 1982
Visiting Professor, University of Chicago, 1982
Chair, Joint Institute for Laboratory Astrophysics, 1985-86
E. U. Condon Distinguished Professor of Chemistry, University of Colorado, 1985-present
Member, US National Science Board, 2011 – 2016, Appointed for Second term, 2016-2022
Executive Committee, 2012-15, Chair, Subcommittee on Facilities, 2012-2016
Chair, Committee on Awards and Facilities, 2018-
Member, Mid-Scale Instrumentation Group, 2018-
Member, Operations and Maintenance Group, 2018-
Member, Task force on Skilled Technical Workforce, 2018-
Member, Committee on Oversight, 2018-

Memberships:

National Academy of Sciences, 1983
American Academy of Arts and Sciences, 1995
American Physical Society, Fellow
American Association for the Advancement of Science, Fellow

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Sigma Xi
American Chemical Society

Awards and Honors:

Alfred P. Sloan Research Fellow, 1972-75
Camille and Henry Dreyfus Teacher-Scholar, 1975-80
Faculty Fellow, University of Colorado, 1975-76, 1981-82, 1984, 1993-94, 2000-2001
Herbert P. Broida Prize in Chemical Physics, American Physical Society, 1981
J. S. Guggenheim Memorial Fellow, 1981-82
University of Colorado Faculty Research Lecturer, 1982
Bomem-Michelson Prize, Coblentz Society, 1987
William F. Meggers Prize, Optical Society of America, 1988
Phi Beta Kappa National Lecturer, 1989
Earle K. Plyler Prize, American Physical Society, 1992
Irving Langmuir Prize in Chemical Physics, American Chemical Society, 1996
Sierra Nevada Section of ACS Distinguished Chemist Award, 1997
Georgia Institute of Technology College of Sciences Alumni Achievement Award for
Outstanding Contributions to Scholarship and Teaching, 1998
William Lloyd Evans Award, Ohio State University, 2001
Peter Debye Award in Physical Chemistry, American Chemical Society, 2004
Swiss Chemical Society, First National Lecturer (a new program), 2013
Herschbach Medal, Dynamics of Molecular Collisions Conference, 2015
National Academy of Sciences Award in Chemical Sciences, 2015

Selected Professional Activities: (current in **bold**)

Chairman, Division of Chemical Physics, American Physical Society, 1982-83
Chairman, Advisory Committee, Health and Safety Research Division, Oak Ridge National
Laboratory, 1982-86
National Research Council Board on Physics and Astronomy, 1983-88
Chair, Division of Atomic, Molecular and Optical Physics, American Physical Society, 1987
Chair, Science and Technology Centers Advisory Committee, National Science Foundation,
1987-1991
Chair, Basic Energy Sciences Advisory Committee, Department of Energy, 1993-96
Chair, Topical Group on Laser Science, American Physical Society, 1994-1995
Chair, Section of Chemistry, National Academy of Sciences 1993-1996
Chair, NSF Science and Technology Centers Advisory Committee, 1996
Co-Chair, Commission on Physical Sciences, Mathematics and Applications, National
Research Council, 1996-2000
Member, Physics Policy Committee, American Physical Society, 1995-1998
Chair, NAS Officers Nomination Committee, 1996-1997
Chair, Membership, Section of Chemistry, American Academy of Arts and Sciences
1999-2001
Member, Task Force on Reorganization of National Research Council, 1999-2000

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Member, Council of the American Physical Society, 1999-2003
Member, Governing Board, National Research Council, 1996-2000
Foreign Councilor, Institute of Molecular Sciences, Okazaki National Research Institutes, Okazaki, Japan, 2001-2003
Chair, American Physical Society Prize and Awards Committee 2002-2004
Member, Council of the National Academy of Sciences, 2003-2006
Chair, National Science Foundation Mathematical and Physical Sciences Advisory Committee, 2003-2006
Member, Governing Board, National Research Council, 2003-2007
Member, NAS, NAE, IOM Joint Committee on Science, Engineering and Public Policy, 2003-2009
National Science Foundation Waterman Prize Selection Committee, 2006-2008
Council, American Association for Advancement of Science, 2007-2010
Chair, Search Committee for Editor of *Journal of Chemical Physics* 2009
Member, DOE Committee, "Science in a New Era," 2008-9
Member, NSF Committee on Advanced Light Sources, 2009
Member, NRC Committee on Data Integrity 2008-9
Chair, NSF Committee of Visitors for Major Research Instrumentation Program, 2010
Member, NRC Physical Sciences Panel of the Decadal Survey on Biological and Physical Sciences in Space, 2009-2011
Member, NRC Report Review Committee 2007- 2013
Member, National Science Board, 2011-16. Nominated by President Obama, April, 2011, confirmed by US Senate, August, 2011
Member, Executive Committee, National Science Board, May, 2012 – 15
Chair, Subcommittee on Facilities, National Science Board, May 2012 –16
Appointed by President Obama for a second NSB Term (2016 - 2022), May, 2016
Chair, NSB Committee on Awards and Facilities, 2018-2020
Member, Task Force on Risk Analysis 2017- present
Member, NSB Task Force on Skilled Technical Workforce, 2017- present
Member, Ethics Advisory Committee, National Academy of Engineering 2010-present; Co-Chair, 2017- present
Member, NRC Committee on Responsible Science 2011- 2018
Member, NRC Laboratory Assessments Board, 2012–2010, 2018- 2022
Member, Search Committee for next NAS President and Treasurer, 2015 –16
Member, NRC Committee on A Midterm Assessment of Implementation of the Decadal Survey on Life and Physical Sciences Research at NASA, 1/1/17- 5/31-2018

Recent Named Lectureships

Moses Gomberg Lecturer, University of Michigan, March, 1999
Frontiers of Science Lecturer, Texas A & M, April, 1999
Gordon Lecturer, University of Toronto, May, 1999
Baker Series Lectures, Cornell University, 1999
E. W. McDaniel Memorial Lecture, Georgia Institute of Technology, 1999
Mary Kapp Lecturer, Virginia Commonwealth University, March 2000
Hyp Dauben Lecturer, University of Washington, May 2000

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W. L. Evans Lecturer, Ohio State University, October, 2001
G. L. Closs Lecturer, University of Chicago, 2003
W. A. Noyes Distinguished Lecturer, University of Texas at Austin, 2004
R. S. Berry Lecturer, "Lasers: The Light Fantastic," Telluride Town Extravaganza, Pinhead Institute, 2005
Lyle Ramsay Dawson Lecturer, University of Kentucky, 2005
Robert Hansen Lecturer, Iowa State University, 2005
Fredrick Kauffman Lecturer, University of Pittsburgh, 2006
John Stauffer Lecturer, Stanford University, 2008
Inaugural Frontiers in Chemical Physics & Analysis Lecture, Pacific Northwest Laboratory, 2009
Kent Wilson Lecture, University of California, San Diego, May 2010.
Robert S. Mulliken Lecture, University of Georgia, September, 2010
John Howard Appleton Lectures, Brown University, October, 2010
John E. Willard Lectures, University of Wisconsin, Madison, 2011
Lyman Parratt Lecture, Department of Physics, Cornell University, 2012
Eyring Lectures in Chemistry and Biochemistry, Arizona State University, 2012
Swiss Chemical Society National Lecturer, 2013
Arnold C. Ott Lectureship, Grand Valley State University, 2013
Barton-Kacher Lectureship, University of Oklahoma, 2013
Matsen Lecture in Chemistry, University of Texas, Austin, TX, 2016
Emory University, First Emory "Chemmy" Award Lecturer, 2017

University of Colorado Current Service
Federal Relations Advisory Committee
Distinguished Professor's Committee