

Louis E. Brus
Curriculum Vitae

Education:

BS in Chemical Physics(magna cum laude), Rice University, 1965
PhD in Chemical Physics, Columbia University, 1969. Advisor: Richard Bersohn

Professional Experience:

Lieutenant USN, 1969-1973, at the U.S. Naval Research Laboratory, Washington DC
Research in the solid state and chemistry divisions as Scientific Staff Officer.
AT&T Bell Laboratories, Murray Hill, NJ. Member of Technical Staff, , 1973-1984.
Distinguished Member of Technical Staff, 1984-1996.
Columbia University, Professor of Chemistry from July 1996
Professor of Chemical Engineering and Applied Chemistry from July 1997
Thomas Alva Edison Professor 2001-2004
S. L. Mitchill Professor from 2004
Scientific Head, Columbia NSF MRSEC IRG on Complex Films from 1998
University of Paris VI (P. & M. Curie), Visiting Professor June 2002.

Awards and Honors:

NSF Predoctoral Fellow 1966-1969
U.S. Naval Research Laboratory Award for Best Paper in Chemistry 1973, (with J. R. McDonald, Jr.)
Elected Fellow, American Physical Society 1980
Herman Bloch Award, "For Scientific Excellence in Industry", University of Chicago, 1995.
Elected Fellow, American Academy of Arts and Sciences 1998.
2001 Irving Langmuir Prize in Chemical Physics, from the American Physical Society
Elected to the National Academy of Sciences in chemistry 2004
2005 Chemistry of Materials Prize from the American Chemical Society

Lectureships:

Lecturer, Welch Foundation Symposium on "Valency", 1988
Hutchinson Memorial Lecturer, Rochester University, 1991
Lecturer, Nature Symposium on "Nanotechnology", 1992
Kistiakowsky Memorial Lecturer, Harvard University, 1993
Rohm and Haas Lecturer, University of North Carolina , 1994
C. B. McDowell Lecturer, Univ. of British Columbia, 1994
Fairchild Lecturer, Lehigh University, 1994
Franklin Memorial Lecturer, Rice University, 1995
Lecturer, Welch Foundation Symposium on "Nanochemistry", 1995
A. R. Gordon Lecture Series, Univ. of Toronto, 1996
Kolthoff Lecture Series in Chemistry, Univ. of Minnesota, 1996.
Distinguished Visitor, JILA at University of Colorado, 1999.
Musulin Lecturer, Southern Illinois University, 1999.
H. Nation Lecturer, Georgia Inst. of Technology, 1999.
Riley Lecturer, Notre Dame University, 2001
Professor, 3ième Cycle Seminar in Physical Chemistry, Swiss Federal Universities, Sept. 2002
Pimentel Memorial Lecturer, University of California Berkeley, April 2003
Lane Lecturer, University of Illinois March 2004
ABB Distinguished Lecturer, RPI, October 2004
Hill Memorial Lecturer, Duke University, November 2004
Hascoe Distinguished Lecturer, University of Connecticut, December 2004

Professional Service:

American Chemical Society

Editorial Board,

Journal of the American Chemical Society 1990-1996

Journal of Physical Chemistry 1990-1993, 2003-2006

Nano Letters 2000-2004

Alternate Councilor, Physical Chemistry Division, 1988-1991

Bakeland Prize Committee 1991

Nobel Signature Award Committee 1984-1987

Petroleum Research Fund Advisory Board 2002-2003

American Physical Society

Editorial Board: Journal of Chemical Physics 1988-1991

McGroddy New Materials Prize Committee 2002-2004

Langmuir Chemical Physics Prize Committee 2002

Department of Energy

Chemical Sciences Council 2003-2006

Director's External Review Committee, Lawrence Berkeley Laboratory, 1991, 2000

External Review Committee, National Renewable Energy Laboratory 1999

Chemical Sciences Review Committee, Argonne National Laboratory, 1990

External Review Committee, Pacific Northwest National Laboratory, 1997

Study Panel on Research Opportunities in Clusters 1987-1988, Co-chairman.

Gordon Research Conferences

Board of Trustees, 1995-2000

Vice-Chairman 1997, Chairman of the Board 1998

Editorial Board:

Chemical Physics Letters 1992-1995, 2004-2007

Nanostructured Materials 1992-1996

Annual Review of Physical Chemistry 1997-2001

NAS/NRC Study Panel on Chemistry in Shock Fronts, 1983.

Chemical Physics Standing Committee, Canadian Federal Program Directorate 1989-1994

External Review Committee, Rochester NSF Center for Photoinduced Charge Transfer 1990.

Dean's Visiting Committee for Chemistry, Rice University, 1989, 1992.

ad hoc Committee on Tenured Appointments in Chemistry, Harvard University, 1991 and 1998

NAS/NRC Committee on Future Opportunities in Atomic, Molecular, and Optical Science,
1991-1993

NRC/AFOSR Chemical Sciences Review Panel, 1992-1995.

External Advisory Board, Rice Nanoscience Institute, 1995

UC Berkeley Molecular Design Institute, External Member 1995-1997

Provost's External Review Committee for Physics, Chemistry, Geology and Astronomy,
University of Toronto, 1999.

Oversight Committee, Harvard Center for Imaging and Mesoscale Structures (CIMS) 2001

Director's Advisory Committee, NSF Nanocenter at Rensselaer Polytechnic, 2002-present