

Curriculum Vitae: James E. Lawler

Arthur and Aurelia Schawlow Professor of Physics, University of Wisconsin-Madison

Education:

Ph.D., Physics, University of Wisconsin-Madison, 1978
M.S., Physics, University of Wisconsin-Madison, 1974
B.S., Physics, University of Missouri-Rolla, 1973

Academic Experience:

July 1999 - present, Houses Professor
June 1989 - present, Professor of Physics, University of Wisconsin-Madison
June 1994 - June 1997, Physics Department Chair
Sept. 1985 - May 1989, Associate Professor, University of Wisconsin-Madison
Sept. 1980 - Aug. 1985, Assistant Professor, University of Wisconsin-Madison
Aug. 1978 - Sept. 1980, Research Associate, Stanford University, Stanford, CA

Major Consulting Activities:

Oct. 1990 - present, Teltech Inc.
Dec. 1985 - 1996, General Electric Company
June 1977 - Aug. 1978, Product Development for National Research Group, Inc., Madison, WI

Research Interest:

Physics of gas discharges, laser spectroscopy, laboratory astrophysics, related areas of atomic physics.

Awards and Honors:

Laboratory Astrophysics Division Prize of the American Astronomical Society, 2017
Penning Award of the Intl. Union Pure and Applied Physics, 1995
W. P. Allis Prize of the American Physical Society, 1992
Fellow of the Institute of Physics (Great Britain) 2009
Fellow of the Optical Society of America, 1994, Fellow of the American Physical Society, 1992
H. I. Romnes Faculty Fellow, University of Wisconsin, 1987
National Science Foundation Graduate Fellow, 1974-1976
Wisconsin Alumni Research Foundation Graduate Fellow, 1973-1974
H. Q. Fuller Award, University of Missouri, 1973
Selected as Student Marshall of the College of Letters and Science for May 1973
Commencement, B.S. awarded Summa Cum Laude
University of Missouri Curators Waiver of Fees Award, 1970-72, Schumberger Scholar, 1971-72

Professional Activities

Assoc. Editor for Plasma Science of J. Phys. D, 2001-2004
Assoc. Editor J.Q.S.R.T., 1997 - 2006
Treasurer of the Gaseous Electronics Conference, 1992-1994
N.I.S.T. (N.B.S.) N.R.C. Assessment Panel on the Center for Atomic, Molecular, and Optical Physics, 1989-1995
N.R.C. Panel on Plasma Processing of Materials, 1990-1991
Gaseous Electronics Conference Executive Committee, 1987-1989
N.A.S. - N.R.C. Committee on Line Spectra of the Elements - Atomic Spectroscopy, 1983-1988

Ph.D. and M.S. Dissertation Supervised:

25 Ph.D. complete, 1 Ph.D. in progress, 10 M.S. complete

Refereed Publications: > 260 (omitting numerous conference papers)

Books: Optogalvanic Spectroscopy, Coeditor with R. S. Stewart

Patents: Echelle Sine Bar for dye laser cavity, Barium Light Source