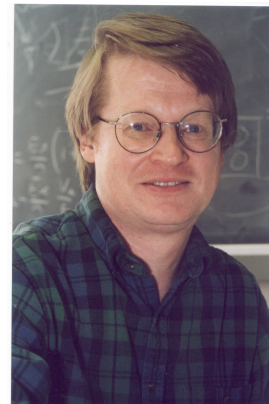


# Michael Downer

<http://www.ph.utexas.edu/dept/research/downer/>



## Personal

Born July 19, 1954, Rockville Centre, New York  
Married Jane Castledine, August 22, 1993  
Citizenship U.S.A.

## Education

Postdoc AT&T Bell Labs, Holmdel, NJ, 1983 – 1985, *C. V. Shank, supervisor*  
Ph.D. Harvard University, 1983, Applied Physics, *N. Bloembergen, supervisor*  
M.A. Oxford University, Brasenose College, 1978 Physics & Philosophy  
B.A. University of Rochester, 1976 Physics

## Career Positions

University Distinguished Teaching Professor	U. Texas at Austin	2011-present
College of Natural Sciences Distinguished Professor	U. Texas at Austin	2006-present
Jack S. Josey Professor	U. Texas at Austin	1998-2000
Professor of Physics	U. Texas at Austin	1997 - present
Associate Professor of Physics	U. Texas at Austin	1991 - 97
Assistant Professor of Physics	U. Texas at Austin	1985 - 91

## Teaching Awards

Natural Sciences Council Faculty Service Award, UT-Austin	2013
Regents' Outstanding Teaching Award, U. Texas System	2011
Elected to Academy of Distinguished Teachers, UT-Austin	2011
Natural Sciences Council Outstanding Teaching Award, UT-Austin	2009
Dad's Association Centennial Teaching Fellowship, UT-Austin	2009
President's Associates Teaching Excellence Award, UT-Austin	2002
Teaching Excellence Award, College of Natural Sciences, UT-Austin	2001
Outstanding Graduate Teaching Award, UT-Austin	2000

## Other Honors/Awards

<sup>1</sup> Robert S. Hyer Award of Texas Section, American Physical Society	2011	
<sup>2</sup> Fellow, Optical Society of America	2003	
<sup>3</sup> Fellow, American Physical Society	1999	
NSF Presidential Young Investigator Award	1988-1993	\$312,500
ONR Young Investigator Award	1988-1991	\$150,000
IBM Faculty Development Award	1987-1989	\$ 60,000
Trull Centennial Professorship, UT-Austin	1985-86	
General George C. Marshall Scholar, Oxford University	1976-78	
165 invited talks at other institutions, professional meetings, etc	1983-present	

<sup>1</sup> as advisor of *student awardee Ming Lei*, for the most outstanding graduate student research presented at a Texas Section APS meeting in the past 2 years (<http://www.aps.org/units/tsaps/awards/hyer/index.cfm>)

<sup>2</sup> for "pioneering contributions to nonlinear and ultrafast laser spectroscopy of solid surfaces and plasmas"

<sup>3</sup> for "fundamental contributions to nonlinear and ultrafast laser spectroscopy of solids and surfaces near the melting threshold and of gases and underdense plasmas near the thresholds of ionization and wakefield generation"

## Recent Professional Activities

General Chair, Advanced Accelerator Concepts (AAC) Workshop	2011-2012
Member, APS Division of Laser Science Executive Committee	2008-2011
*General Chair, Quantum Electronics & Laser Science (QELS '05)	2005 ( <i>world's largest laser science conference</i> )
*Program Chair, Quantum Electronics & Laser Science (QELS '03)	2003
Topical Editor, Journal of the Optical Society of America B	2000- 2003

## Patents

M. C. Downer and P. T. Wilson,\* "System and Method for Frequency Domain Interferometric Second Harmonic Spectroscopy," **U.S. Patent 6,411,388** (granted 6-25-02).

M. C. Downer, J. I. Dadap,\* J. K. Lowell, "Characterization of an external silicon interface using optical second harmonic generation," **U.S. Patent No. 5,557,409** (granted 9-17-96).

\* graduate student co-inventor