

## Curriculum Vitae

Charles W. Misner

University of Maryland, College Park

### Education

B.S., 1952, University of Notre Dame

M.A., 1954, Princeton University

Ph.D., 1957, Princeton University

### University Positions

1956–59 Instructor, Physics Department, Princeton University

1959–63 Assistant Professor, Physics, Princeton University

1963–66 Associate Professor, Department of Physics and Astronomy,  
University of Maryland

1966–2000 Professor, Physics, University of Maryland, College Park

1995–99 Assoc. Chair, Physics, University of Maryland

2000– Professor Emeritus and Senior Research Scientist, Physics,  
University of Maryland

### Visitor

2005 (April, May) MPG-Alfred Einstein Institute, Postdam, Germany

2002 (January–March) MPG-Alfred Einstein Institute, Postdam, Germany

2000–01 (November–April) MPG-Alfred Einstein Institute, Postdam,  
Germany

2000 (January) Institute for Theoretical Physics, U. Cal. Santa Barbara

1983 (January) Cracow, Poland: Pontifical Academy of Cracow

1980–81 Institute for Theoretical Physics, U. Cal. Santa Barbara

1977 (May) Center for Astrophysics, Cambridge, Mass.

1976 (June) D.A.M.T.P. and Caius College, Cambridge, U.K.

1973 (spring term) All Souls College, Oxford

1972 (fall term) California Institute of Technology

1971 (June) Inst. of Physical Problems, Academy of Sciences, USSR,  
Moscow

1969 (fall term) Visiting Professor, Princeton University

1976 (summer) Niels Bohr Institute, Copenhagen, Denmark

1966–67 Department of Applied Mathematics and Theoretical Physics,  
Cambridge University, England

1960 (spring term) Department of Physics, Brandeis University, Waltham, Massachusetts

1959 (spring and summer) Institute for Theoretical Physics, Copenhagen

1956 (spring and summer) Institute for Theoretical Physics, Leiden, the Netherlands

### **Honors and Awards**

Elected Fellow of the American Academy of Arts & Sciences, May 2000

Dannie Heineman Prize for Mathematical Physics (Am. Phys. Soc.) 1994, shared with Stanley Deser and Richard Arnowitt

*Computers in Physics* (AIP magazine/journal) annual educational software contest winner in 1991

Visiting Fellow, All Souls College, Oxford, 1973

Guggenheim Fellowship, 1972–73

Washington Academy of Sciences Award for Scientific Achievement, 1967

National Science Foundation Senior Postdoctoral Fellowship 1966–67

Gravity Research Foundation, Third Award for an Essay on Gravity, 1967

Maryland Academy of Sciences Award: Maryland's Outstanding Young Scientist of 1965

Science Centennial Award, University of Notre Dame, 1965

Alfred P. Sloan Research Fellowship 1958–62

Junior Fellowship, Harvard Society of Fellows (appointment declined, 1957)

### **Professional Activities**

American Physical Society fellow

International Society on General Relativity and Gravitation member

American Mathematical Society member

Royal Astronomical Society fellow

American Academy of Arts & Sciences fellow

International Astronomical Union member

Philosophy of Science Association member

American Assoc. for the Advancement of Science fellow

Federation of American Scientists member

Society for General Relativity and Gravitation, Nominating Committee, 1994–95

Consultant to the AIP/AAPT “Active Physics” high school physics project, 1991–93

Associate Editor for Education, *Computers in Physics*, 1992–94

Member of the AAPT Resource Letters Editorial Board, 1991–94  
Member of the Curriculum Coordination Group of the National Science Teachers Association SS&C project, 1991  
Member of the steering committee of the APS/AAUP Introductory University Physics Project, 1987–94  
Member of the advisory committee for the Conference on Computers in Physics Instruction, N.C. State University 1–5 August 1988  
Consultant to the Committee on Human Values of the National Conference of Catholic Bishops, 1987–91  
Member of Editorial Board, *Phys. Rev. D*, 1978 and 1979  
NSF Advisory Committee for Research 1973–77  
Member of NASA Sub-Panel on Relativity and Gravitation 1975–76  
Member of NAS Astronomy and Physics Survey Panel: Relativistic Astrophysics 1971–74  
Member of Board of Advisors for 1978 Seattle Workshop on Sources of Gravitational Radiation  
Member of Organizing Committee for American Mathematical Society Summer Seminars in 1962 and 1965

**Invited Lecturer**

VII Asia-Pacific International Conference on Gravitation and Astrophysics  
Chungli, Taiwan, November 2005  
Deserfest: A celebration of the life and works of Stanley Deser, U  
Michigan, Ann Arbor, April 2004  
Drexel workshop on Astrophysical Sources for Ground-based Gravitational  
Wave Detectors, October 2000  
KipFest Science Symposium in honor of Kip Thorne’s 60th birthday,  
Caltech, June 2000  
Arnowitz Fest, Texas A&M University, April 1998, College Station, Texas.  
The 1994 Dannie Heineman Prize Lectures, Am. Phys. Soc. April Meeting,  
Crystal City, Virginia  
NATO workshop on Deterministic Chaos in General Relativity, Univ. of  
Calgary Kananaskis Center, July 1993  
Symposium on Knowing God, Christ, and Nature, University of Notre  
Dame, April 1993  
Invited lecturer and workshop leader, Davidson College Conference on  
Computational Physics in the Undergraduate Curriculum,  
Davidson, North Carolina, October 1991

Invited lecturer and workshop leader, Dickinson College Summer Seminar  
on Workshop Physics, Dickinson College, Carlisle PA, June 1991

Invited participant, Denver Workshop on the Role of the Research  
Physicist in Undergraduate Curriculum Development, 16–18  
November 1990

Bertha Halley Ross lecturer in mathematics and science at Ohio State  
University, August 1990

International Symposium on the Evaluation of Physics Education,  
Helsinki, 25–29 June 1990

Joint AAPT-APS-AAAS meeting in San Francisco, 19 January 1989,  
AAPT session of invited papers in Computational Physics

Conference on Computers in Physics Instruction, North Carolina State  
University, 1–5 August 1988

Study Week at Vatican Observatory, Castel Gandolfo, on “Our Knowledge  
of God and Nature: Physics, Philosophy and Theology”, 21–25  
September 1987

IBM Forum for the Physical Sciences, Tucson, Arizona, 1–3 November 1987

IBM ACIS University Conference, Boston, Massachusetts 27–30 June 1987

11th University Study Conference, IBM Academic Information Systems,  
Fort Lauderdale, Florida, November 1986

10th University Study Conference, IBM Academic Information Systems,  
Santa Clara California, November 1985

IBM University Advanced Education Projects Conference, Alexandria,  
Virginia, June 1985

Conference on Foundation Problems of Physics, Austin, Texas, Feb. 1984

Conference on Evolution and Creation, University of Notre Dame, March  
1983

Annual Meeting of the American Catholic Philosophical Association, St.  
Louis, Missouri, April 1981

Einstein Centennial Symposium, Institute for Advanced Study, Princeton,  
March 1979

Symposium on the Impact of Modern Scientific Ideas on Society (Einstein  
Centenary/UNESCO), Ulm, September 1978

Berkeley Symposium on Relativity and Cosmology in honor of Abraham  
H. Taub, August 1978

Alfred Schild Memorial Lectures, Austin, Texas, 1978

AAAS 1978 Annual Meeting, Symposium on the Role of Models in  
Scientific Inquiry

Chandrasekhar Symposium on Astrophysics and Relativity, University of  
Chicago, 1975  
International School E. Majorana, Erice, Sicily, March 1975  
International Congress of Mathematicians, Vancouver, 1974  
Philosophy of Science Association 1972 Biennial Meeting, Symposium:  
Space, Time, and Matter  
Brandeis Summer Institute for Theoretical Physics, 1968  
Les Houches Summer School of Theoretical Physics, 1963

### **Biographical Listings**

Who's Who in America

World Who's Who

Dictionary of International Biography

American Men of Science

see also A. Lightman and R. Brawer, *Origins—the Lives and Worlds of  
Modern Cosmologists*, Harvard University Press, 1990, pp.  
232–249

and B. L. Hu, M. P. Ryan Jr. and C. V. Vishveshwara, *Directions in  
General Relativity—Vol. 1: Papers in honor of Charles Misner*,  
Cambridge University Press, 1993, esp. pp. 1–9.

### **Recent Funding**

1997–2000 NSF Grant PHY9700672 “Gravitational Radiation from  
Compact Objects”, 3 years at \$75K/yr

2000–2002 NSF Grant PHY0071020 “Gravitational Radiation from  
Compact Objects”, 2 years at \$75K/yr