Rainer Weiss

Born:

Dorn.			
	September 29.	, 1932. Berlin, Germany	
	USA Citizen		
Present Position:			
	Drofossor of D	Physica Emoritus	
	Professor of Physics, Emeritus Massachusetts Institute of Technology		
	massachusetts	s institute of recimology	
Education:			
	1955-B.S.	Massachusetts Institute of Technology	
	1962-Ph.D.	Massachusetts Institute of Technology	
Positions:			
	1960-1961	Instructor of Physics, Tufts University	
	1961-1962	Assistant Professor of Physics, Tufts University	
	1962-1964	Research Associate in Physics, Princeton University	
	1964-1967	Assistant Professor of Physics, M.I.T.	
	1967-1973	Associate Professor of Physics, M.I.T.	
	1973-2001	Professor of Physics, M.I.T.	
	2001-	Adjunct Professor of Physics, L.S.U	
	2001-	Professor of Physics, Emeritus, M.I.T.	
	2001-	FIGUESSOF OF FILYSICS, EINETITUS, MILLI	
Research:			
Expe	rimental Atomic	c Physics, Atomic Clocks, Laser Physics,	
Expe	rimental Gravit	ation, Millimeter and Sub - millimeter	
		Background Measurements,	
Major Projects:	•		
о 0	nic Clock develo	pment,	
Balloon program to measure Cosmic Background Radiation,			
	Science Working Group Chairman, COBE satellite program,		
	-	Gravitational - Wave Observatory (LIGO)	
Professional Societ			
2 / 0 / 000 /		acistica for the Advancement of Science (Follow)	
	American Association for the Advancement of Science (Fellow) American Physical Society (Fellow)		
	American Astronomical Society		
	· ·		
	New York Academy of Sciences		
	American Academy of Arts and Sciences (Fellow) National Academy of Sciences (Member)		
		temy of Sciences (Member)	
	Sigma Xi		
Honors:			
	MIT, Baker A	ward for Excellence in Teaching (1968)	
	,	vement Award (Monolithic Bolometers) (1983)	
		, Group Achievement Award (COBE) (1990)	
	'	tional Scientific Achievement Medal (COBE) (1991)	

NASA, Group Achievement Medal (COBE) (1991) National Space Club, Science Award (COBE Team) (1994) John Simon Guggenheim Memorial Foundation Fellowship (2000) Medaille de l'ADION Observatoire de Nice (2003) Gruber Cosmology Prize as part of COBE Team (2006) Einstein Prize of the American Physical Society (2007)

Professional Service:

NASA Physical Science Committee, 1970 - 1974

National Academy Summer Study on Outer Planet Exploration, 1972 NASA Management Operations Working Group for Shuttle Astronomy, 1973 - 1976 NASA Management Operations Working Group for Airborne Astronomy, 1973 - 1986 Chairman, NASA Panel on Experimental Relativity and Gravitation, 1974-1976 NCAR Scientific Ballooning Advisory Panel, 1971 - 1978 Chairman, NCAR Scientific Ballooning Advisory Panel, 1974 - 1978 Members' Representative to NCAR from M.I.T., 1974 - 1982 Chairman, NSF Subcommittee on Gravitational Physics, 1978 NASA SSSC Committee, 1979 - 1982 NASA Infrared Detector Panel, 1978 NASA Space and Earth Science Advisory Committee, 1982 National Academy Space Science Board, 1983 - 1986 Panel Chairman, Fundamental Physics and Chemistry, National Academy Summer Study, Major Directions for Space Research 1995-2015, 1984-86 Coordinator, NSF Panel on Interferometric Observatories for Gravitational Waves 1986 Panel for the Joint Institute of Laboratory Astrophysics, Board on Assessment of NBS Programs, National Academy of Sciences, 1985 -Program Initiation Group on Gravitation, Cosmology, and Cosmic Ray Physics, NRC Committee, D.Schramm, Chairman 1992 Chairman, High Energy Physics Laboratory Visiting Committee (Stanford) 1991,1994 National Research Council, Committee on Astronomy and Astrophysics, Task Group on Space Astronomy and Astrophysics, 1996 NASA Gravity Probe-B External Independent Readiness Review Team, 1997 -Spokesperson for the LIGO Scientific Collaboration 1997 - 2003 Chair, American Physical Society Topical Group on Gravitation 1999 - 2000 National Research Council, Astronomy and Astrophysics Survey, Panel on Particle and Gravitational-Wave Astrophysics 1999 - 2000 NASA Small Explorers (SMEX) and Missions of Opportunity Science Review Panel 2000, Chair of Panel on Fundamental Physics NASA Gravity Probe-B Special scientific review panel 2003 NASA LISA Technical Readiness Review Team 2003 NASA Post Einstein Mission review 2003

NASA Goddard LISA Gravitational Wave Visiting Committee (Chair) 2004 - 2005

DOE,NASA,NSF CMB Task Force (Chair) 2004 - 2005 NASA Astrophysics Performance Assessment Committee 2006

Teaching and Academic Administration:

Introduced Purcell "Electricity and Magnetism" into MIT curriculum, developed lectures, lecture demonstrations, student laboratory (1964–1967).

Developed Graduate Course in General Relativity and Cosmology (1968)

Introduced Kerman, Sartori, Morrison, French "Quantum Mechanics" into MIT curriculum, developed lectures, lecture demonstrations, problems (1969 - 1971).

Administered and taught in Junior level Modern Physics teaching laboratory, developed new experiments (1971 - 1978).

Ran a physics "family" in my research laboratory (2 Freshman, 2 Sophomores, 2 Juniors, 2 Seniors coupled to 2 Graduate students) (1970 - 1980)

Academic officer for the undergraduate program in physics (1974 - 1981)

Developed Independent Activities Course in the Physics of the Piano (1983)

Televised problem solving sessions for large Freshman Mechanics and Electricity and Magnetism Courses $\left(1984\right)$

Taught sections as needed by the department in various undergraduate courses $\left(1985$ - $1990\right)$

Research supervisor: 10 PhD degrees, 4 Masters degrees, 26 Undergraduate (thesis) degrees (1964 - 1990).