

## STEVEN WEINBERG CV

### BORN:

May 3, 1933, in New York, N.Y.

### EDUCATION:

Cornell University, 1950–1954 (A.B., 1954)

Copenhagen Institute for Theoretical Physics, 1954–1955

Princeton University, 1955–1957 (Ph.D., 1957).

### HONORARY DEGREES:

Harvard University, A.M., 1973

Knox College, D.Sc., 1978

University of Chicago, Sc.D., 1978

University of Rochester, Sc.D., 1979

Yale University, Sc.D., 1979

City University of New York, Sc.D., 1980

Clark University, Sc.D., 1982

Dartmouth College, Sc.D., 1984

Weizmann Institute, Ph.D. Hon.Caus., 1985

Washington College, D.Litt., 1985

Columbia University, Sc.D., 1990

University of Salamanca, Sc.D., 1992

University of Padua, Ph.D. Hon.Caus., 1992

University of Barcelona, Sc.D., 1996

Bates College, Sc. D., 2002

McGill University, Sc. D., 2003

University of Waterloo, Sc. D., 2004

Rensselaer Polytechnic Institute, Sc. D., 2016

### PRESENT POSITION:

Josey Regental Professor of Science, University of Texas, 1982–

### PAST POSITIONS:

Columbia University, 1957–1959

Lawrence Radiation Laboratory, 1959–1960

University of California, Berkeley, 1960–1969

On leave, Imperial College, London, 1961–1962

Became full professor, 1964

On leave, Harvard University, 1966–1967

On leave, Massachusetts Institute of Technology, 1967–1969

Massachusetts Institute of Technology, 1969–1973, Professor of Physics

Harvard University, 1973–1983, Higgins Professor of Physics

On leave 1976–1977, as Visiting Professor of Physics, Stanford University

Smithsonian Astrophysical Observatory, 1973–1983, Senior Scientist

Morris Loeb Visiting Professor of Physics, Harvard University, 1983–1984

SOCIETIES:

National Academy of Sciences

Foreign Member, Royal Society

Honorary Member, Royal Irish Academy

American Philosophical Society

Fellow, American Academy of Arts and Sciences

Fellow, American Physical Society

International Astronomical Union

Council on Foreign Relations

Fellow, American Association for the Advancement of Science

Honorary member, Chapter Alpha of Texas, Phi Beta Kappa

Honorary member, Chapter Alpha-Iota of Massachusetts, Phi Beta Kappa

Philosophical Society of Texas

Texas Institute of Letters

Fellow, Institute of Physics

CONSULTANTSHIPS:

U.S. Arms Control and Disarmament Agency\*

Institute for Defense Analyses\*

Stanford Research Institute\*

Correspondent, “Comments on Nuclear and Particle Physics”\*

Program Consultant, American Physical Society\*

Brookhaven National Laboratory\*

Senior Consultant, Smithsonian Astrophysical Observatory, 1983–

Senior Advisor, JASON group, Mitre Corporation, 1991–2013\*

Senior Advisor (retired), JASON group, Mitre Corporation, 2014–

COMMITTEES:

Panel of Academy Advisors to the Assembly on University Goals and Governance\*

Councillor-at-Large, American Physical Society\*

Fellowship Committee, Division of Particles and Fields, American Physical Society\*

Committee on Economic Concerns, American Physical Society\*  
 Committee on Research Funds, American Academy of Arts and Sciences\*  
 Committee on Membership Policy, American Academy of Arts and Sciences\*  
 Physics Advisory Committee, Cambridge Electron Accelerator\*  
 Panel on Astrophysics and Relativity for the Astronomy and Physics Survey Panels of the National Academy of Sciences\*  
 Organizing Committee of the 1974 Conference on Neutrino Physics at Philadelphia\*  
 Visiting Committee, University of Pennsylvania Physics Department, 1975\*  
 Organizing Committee, Conference on Gauge Theories and Modern Field Theory, Boston, 1975\*  
 Editorial Board, Progress in Scientific Culture, 1976–1989\*  
 Honorary Editor, International Journal of Theoretical Physics, 1976–  
 Faculty Council, Harvard Faculty of Arts and Sciences, 1977–1980\*  
 Advisory Committee for the Ben Lee Memorial Conference on Parity Nonconservation, Weak Neutral Currents, and Gauge Theories, 1977\*  
 Membership Committee, American Academy of Arts and Sciences, 1978\*  
 Co-editor, Monographs on Mathematical Physics, Cambridge University Press, 1978-\*  
 Board of Sponsors of the Einstein Centenary Celebration at Bern, 1979\*  
 Organizing Committee of the Marcel Grossmann Meetings on Recent Developments of General Relativity  
 President's Committee on the National Medal of Science, 1979–1980, 1981–1982.\*  
 Editorial Board, Advances in Applied Mathematics, 1979–1984\*  
 Senior Advisor, La Jolla Institute, 1979-\*  
 International Advisory Panel for "The Neutron and Its Applications," University of Cambridge, 1982\*  
 National Research Council Committee on International Security and Arms Control.\*  
 Member of Council, American Academy of Arts and Sciences, 1982–86.\*  
 Ad Hoc Committee on the Creation Science Amicus Brief, National Academy of Sciences, 1982–1983\*  
 Organizing Committee of the 1982 Texas Symposium on Relativistic Astrophysics and Gravitation.\*  
 Advisory Panel for the Advanced X-ray Astronomy Facility, 1982–1989\*  
 Organizing Committee, 1982 Solvay International Conference.\*  
 Editorial Advisory Committee, World Scientific Publishing Co.  
 Series Editorial Advisory Board, Theoretical Astrophysics, The University of Chicago Press, 1990-\*  
 Organizing Committee, Discussion Meeting on the Constants of Physics, Royal Society of

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London, 1983\*  
 Organizing Committee, Shelter Island II Conference, 1983\*  
 Advisory Committee, NSF Institute for Theoretical Physics, Santa Barbara, 1983–1986\*  
 Council of Scholars, The Library of Congress, 1983–1985\*  
 Board of Governors, Tel-Aviv University, 1983–  
 Faculty Advisory Committee, University of Texas Press, 1983–1986\*  
 Director, Jerusalem Winter School of Theoretical Physics, 1983–1993\*  
 Visiting Committee, Stanford University Physics Dept., 1984\*  
 Board of Overseers of the Superconducting Supercollider, 1984–1986\*  
 Board of Advisors, Nexus — A Series for Public Radio, 1984–1989\*  
 Board of Associate Editors of Nuclear Physics B, 1984–2013\*  
 Advisory Board, Issues in Science & Technology, 1984–1987\*  
 Astrophysics Council of NASA, 1985–1988\*  
 Committee for the Dirac Prize, 1985–\*  
 Advisory Board, International Journal of Modern Physics A, 1985–1990\*  
 Sloan Foundation Science Book Committee, 1985–1992\*  
 Board of Directors, Bronx High School of Science Foundation, Inc., 1985–\*  
 Editorial Board, Journal of Mathematical Physics, 1986–1988\*  
 American Physical Society Panel on Faculty Positions for Women, 1987–1990\*  
 Member, Superconducting Supercollider High Energy Research Facility Advisory Council, State of Texas, 1987\*  
 International Advisor, First Asia Pacific Workshop on High Energy Physics, 1987–1988\*  
 Committee of Honour, Schrödinger Centenary Conference, London, 1987\*  
 National Academy of Sciences/National Academy of Engineering Supercollider Site Evaluation Committee, 1987–1988\*  
 Advisory Committee, XVII International Colloquium on Group Theoretical Methods in Physics, Montreal July, 1988\*  
 International Advisory Board, The Einstein Archives, 1988–\*  
 International Advisory Committee of the 1989 Blois Conference on CP Violation\*  
 International Advisory Committee, Strings '89 Workshop\*  
 International Advisory Committee, VI Adriatic Meeting on Particle Physics\*  
 International Program Committee, DPF 90 (1990 Meeting of the American Physical Society Division of Particles and Fields)\*  
 International Advisory Committee, First International Symposium on Particles, Fields, and Cosmology, 1990\*  
 International Advisory Committee, 1990 Nobel Symposium on The Birth and Early Evolution of the Universe\*

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Science Policy Committee, The Supercollider Laboratory, 1989–1993\*  
 Board on Physics & Astronomy of the National Research Council, 1989–1990\*  
 International Advisory Committee, Strings '90 Workshop\*  
 Board of Editors, *Daedalus*, 1990–\*  
 International Advisory Committee, Second International Symposium on Particles, Fields, and  
 Cosmology, 1991.\*  
 Advisory Committee, First International Sakharov Conference on Physics, 1991\*  
 Advisory Committee, XIX International Colloquium on Group Theoretical Methods in Physics,  
 Salamanca, 1992.\*  
 President, Philosophical Society of Texas, 1994\*  
 International Advisory Committee of the Workshop on Physics and Experiments at Linear  
 $e^+e^-$  Colliders, Waikoloa, Hawaii, April 1993.\*  
 International Advisory Committee of the International Conference on Non-accelerator Particle  
 Physics, Bombay, 1993.\*  
 Advisory Committee for the Selection of a President for U.T., Austin, 1992.\*  
 International Advisory Committee, “Particle Astrophysics,” Blois, 1992\*  
 Long Range Planning Committee, Headliner’s Foundation, 1992–1993; Chairman, 1997\*  
 International Advisory Committee, “Neutral Currents — twenty years later,” Paris, 1993.\*  
 International Advisory Committee, “Bosons & 20th Century Physics,” Calcutta, 1993.\*  
 Visiting Committee, School of Natural Sciences, Institute for Advanced Study, 1992–1993\*.  
 Organizing Committee, Conference on Particle and Condensed Matter Physics, Trieste, 1993\*  
 International Advisory Committee, International Conference on Astrophysics and Cosmology,  
 Calcutta, 1993\*  
 International Advisory Committee, International School on Cosmological Dark Matter,  
 Valencia, 1993\*  
 Visiting Committee, Physics Department, Southern Methodist University, 1993–\*  
 International Advisory Committee, International Conference on Non Accelerator Particle  
 Physics, Bangalore, 1994\*  
 International Organizing Committee, Particle, Strings, and Cosmology Symposium, Syracuse,  
 1994\*  
 International Advisory Committee, XVI International Conference on Neutrino Physics and  
 Astrophysics, Eilat, 1994\*  
 Board of Governors, Headliner’s Foundation, 1994–  
 Visiting Committee, Niels Bohr Institute, 1994–1998\*  
 International Advisory Committee, International Conference on the Phenomenology of  
 Unification, Rome, 1994\*  
 Theoretical Astrophysics Editorial Board, University of Chicago Press, 1993–\*  
 International Advisory Committee, Tennessee International Committee on Radiative

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Corrections, 1994\*

International Advisory Board, PASCOS & Johns Hopkins workshop on Current Problems in Particle Theory, April, 1995.\*

Editorial Advisory Board, *Studies in History and Philosophy of Modern Science*, to 2001.\*

International Advisory Committee, Fourth International Workshop on Supersymmetry, University of Maryland, May, 1996.\*

Advisory Board, Second International Sakharov Conference on Physics, Moscow, May, 1996.\*

International Advisory Committee, XVII International Conference on Physics and Astrophysics, Helsinki, June, 1996.\*

Advisory Council, San Francisco Unified School District, 1995–\*

Fellow, Committee for the Scientific Examination of the Paranormal, 1995–\*

Rochester Task Force of the American Mathematical Society, 1996.\*

International Advisory Committee, Second International Conference on “Phenomenology of Unification from Past to Future,” Rome, April 1997.\*

International Advisory Committee, First International Workshop on Particle Physics and the Early Universe, Ambleside, England, September 1997\*

Advisory Board, Symposium on “Niels Bohr and the Evolution of Physics in the 20th Century,” UNESCO, Paris, May, 1998.\*

International Advisory Committee, 18th International Conference on Neutrino Physics and Astrophysics, Takayama City, Japan, June 1998\*

Advisory Editorial Board, *Journal of High Energy Physics*, 1997–\*

International Advisory Committee of the Sixth Symposium on Particles, Strings, and Cosmology, Boston, March 1998\*

International Organizing Committee, Salam Memorial Meeting, Trieste, November 1997\*

Advisory Board, Texas Asian Chamber of Commerce, 1997–\*

International Advisory Committee, International Workshop on “Beyond the Standard Model: From Theory to Experiment,” Valencia, October 1997\*

Planning and Advisory Board, International Institute of Theoretical Sciences, Jaipur, 1997–\*

Editorial Advisory Board, *Journal of Mathematical Physics*, 1998–2000\*

Advisor, Associated Scientists for Excellence in Education, 1997–\*

International Advisory Committee, Fourth International Symposium on Radiative Corrections, Barcelona, September 1998\*

International Advisory Committee, Second International Workshop on Particle Physics and the Early Universe, Monterey, California, November 1998\*

International Advisory Council, World Laboratory Center for Pan-American Collaboration in Science and Technology at the University of Houston, 1998–\*

Advisory Board, *The Science Review*, 1998–\*

Board of Electors of the Lucasian Professorship, University of Cambridge, 1998–2002\*

International Advisory Committee, Johns Hopkins Workshop on Neutrinos in the Next

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Millennium, June 1999.\*

International Advisory Committee, Conference on Particles in Astrophysics and Cosmology, University of Valencia, May, 1999.\*

International Advisory Committee, COSMO-99, International Centre for Theoretical Physics, Trieste, 1999.\*

Advisory Committee, 4th International Symposium on Sources and Detection of Dark Matter in the Universe, Los Angeles, February, 2000.\*

Honorary Committee, "Hausmusik," Milan, Italy, 1999-\*

International Advisory Committee, Conference on "Spin-Statistics Connection and Commutation Relations: Experimental Tests and Theoretical Implications," IASS Institute, Vietri sul Mare, June 2000.\*

International Advisory Committee, Cosmo-2000, Korea, September 2000\*

Council of Friends of the History of Physics, American Institute of Physics, 1999-\*

International Advisory Committee, Strings 2000 Conference, University of Michigan, July, 2000\*

Selection Committee, Sackler Prize in the Physical Sciences, 1999-2008\*

International Advisory Committee, Conference on Problems of Cosmological Constant, Copenhagen, August, 2000.\*

International Advisory Committee, Theoretical Physics Conference TH-2001, Paris, July 2001\*

International Advisory Committee, First Euroconference on Frontiers in Particle Astrophysics and Cosmology, Spain, September 2000\*

International Advisory Committee, Conference on Radiative Corrections, Carmel, California, September 2000.\*

International Advisory Committee, PASCOS VIII, Chapel Hill, NC, April 2001.\*

Board of Sponsors, Federation of American Scientists, 2000-2009\*; Vice-Chair, 2003-2009\*

International Advisory Committee, 9<sup>th</sup> International Conference on Supersymmetry and Unification of Fundamental Interactions, Moscow, June 2001.\*

Editorial Board, National Academy of Sciences Science Book Series, 2001-\*

Advisory Board, "The Hunting of the Quark" television series, 2001-\*

Advisory Board, International Conference in High Energy Physics, Antananarivo, Madagascar, September-October, 2001\*

International Advisory Committee, 9th International Symposium on Particles, Strings, and Cosmology, Bombay, January 2003.\*

International Advisory Committee, Third International Sakharov Conference on Physics, Moscow, June 2002.\*

International Advisory Board of the Symmetry Festival, Budapest, August 2002.\*

National Sponsor, Committee of Concerned Scientists, 2002-

Council on Foreign Relations Independent Task Force on Homeland Security Imperatives, 2002\*

Advisory Committee, International Workshop on Astroparticle and High Energy Physics,

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Valencia, October 2003.\*

Council on Foreign Relations Independent Task Force on Emergency Responders, 2003\*

Honorary Board, International Raoul Wallenberg Foundation, 2003-\*

International Advisory Committee, International Conference on Theoretical Physics, Moscow, April 2005.\*

International Standing Committee, “Einstein’s Century” meeting, Paris, July 2005.\*

International Advisory Committee, 11th International Symposium on Particles, Strings, and Cosmology, Gyeongju, Korea, June 2005.\*

International Advisory Committee, 2nd International Conference on Quantum Theories and Renormalization Group in Gravity and Cosmology, Barcelona, July 2006.\*

International Advisory Committee, 11th International Advisory Committee on Particles, Strings and Cosmology, Gyeongju, Korea, June, 2005.\*

International Advisory Committee, Third International Conference on Particle and Fundamental Physics in Space, Beijing, December 2005.\*

National Advisory Board, Office of Public Policy of the Center for Inquiry, 2006-\*

Historic Sites Committee, American Physical Society, 2006-\*

International Advisory Committee, Strings ’07 Conference, Madrid, June, 2007.\*

International Advisory Committee, International Conference on Condensed Matter Physics, Rajasthan, India, November 2007.\*

Advisory Committee, Naturalism Research Project, Center for Inquiry, 2006-\*

Program Advisory Committee, International Workshop on the Interconnection between Particle Physics and Cosmology, Cambridge-Mitchell Collaboration in Cosmology, Texas A&M University, May, 2007\*

Sackler Prize Selection Panel, 2007-\*

Advisory Board, The Reason Project, 2007-\*

International Advisory Committee, “From Quantum to Cosmos III: Space-Based Research in Fundamental Physics for the Next Decade,” Airlie Center, Warrington, VA, July 2008.\*

International Standing Committee, “The Dark Side of the Universe,” Paris, 2009.\*

Editorial Board, *Symmetry*, 2009-

International Advisory Committee, “Axion 2010”, University of Florida, January 2010.\*

Board of Advisors, *Scientific American*, 2009-

Board of Sponsors, *Bulletin of the Atomic Scientists*, 2009-

International Advisory Committee, 2011 Shanghai Particle Physics and Cosmology Symposium, 2010-2011\*

International Advisory Committee, 2011 Workshop on Baryon and Lepton Violation at Gatlinburg, 2011\*

International Organizing Committee, Conference in Honor of Freeman Dyson on His 90th Birthday, Singapore, August, 2013.\*

International Advisory Committee, Particle Physics and Cosmology Symposium, Jiao Tong

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University, Shanghai, September 2012.\*

Advisory Board, The Milner Foundation, 2012–

International Advisory Committee, 29th International Workshop on High Energy Physics, Protvino, Russia, June 2013.\*

International Advisory Committee, Shanghai Particle Physics and Cosmology Symposium, Jiao Tong University, Shanghai, June 2013.\*

Scientific Organizing Committee, 50-year Jubilee Texas Symposium, Dallas, TX, 2013.\*

International Advisory Committee, "Dark matter, dark energy, and their detection" conference, Novosibirsk, July 2013\*

International Advisory Committee, "Center for Future High Energy Physics [Beijing]", 2013–\*

International Advisory Committee, XXX-th International Workshop on High Energy Physics, Protvino, June, 2014.\*

International Advisory Committee, International Symposium on Yoichiro Nambu's Physics, Osaka, November 2015\*

#### AWARDS:

Alfred Sloan Fellow, 1961–1965

J. Robert Oppenheimer Prize, 1973

Dannie Heineman Prize for Mathematical Physics, 1977

American Institute of Physics – United States Steel Foundation Science Writing Award for 1977

Elliott Cresson Medal of the Franklin Institute, October 1979

Nobel Prize in Physics, December 1979

James Madison Medal, Princeton University, 1991

National Medal of Science, 1991

Andrew Gemant Award, American Institute of Physics, 1997

Piazzzi Prize, Governments of Palermo and Sicily, 1998

Lewis Thomas Prize for the Scientist as Poet, Rockefeller University, 1999

Named Humanist of the Year, American Humanist Association, 2002

Benjamin Franklin Prize, American Philosophical Society, 2004

Named Honorary Citizen of Padua, Italy, May 2007

Trotter Prize, Texas A&M University, March 2008

James Joyce Award, Literary and Historical Society of University College, Dublin, February 2009

Transformative Achievement Medal, Society for Design and Process Science, June 2010

Career Research Excellence Award, University of Texas Co-Op, October 2012

Texas Writer's Award, Texas Book Festival, October 2013

Award for Excellence in General Nonfiction, Austin Public Library Friends Foundation, November 2013

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## SPECIAL LECTURESHIPS:

Morris Loeb Lecturer, Harvard University, 1966–1967  
Chair in Physics at the College de France, spring 1971  
Richtmeyer Memorial Lecturer of American Association of Physics Teachers, 1974  
Scott Lecturer, Cavendish Laboratory, University of Cambridge, 1975  
Silliman Lecturer, Yale University, fall 1977  
Lauritsen Lecturer, California Institute of Technology, January  
De-Shalit Lecturer, Weizmann Institute, March 1979  
Einstein Lecturer, New York Academy of Sciences, March 1979  
Bethe Lecturer, Cornell University, April 1979  
Schild Lecturer, University of Texas, June 1979  
Henry Lecturer, Princeton University, March 1981  
Harris Lecturer, Northwestern University, April 1981  
Cherwell–Simon Lecturer, University of Oxford, May 1983  
Bampton Lecturer, Columbia University, December 1983  
Einstein Lecturer, Israel Academy of Arts and Sciences, January 1984  
McDermott Lecturer, University of Dallas, March 1985  
Hilldale Lecturer, University of Wisconsin–Madison, April 1985  
Anson L. Clark Lecturer, University of Texas at Dallas, April 1986  
Brickwedde Lecturer, Johns Hopkins University, May 1986  
Dirac Lecturer, University of Cambridge, November 1986  
Oskar Klein Memorial Lecturer, University of Stockholm, 1989  
Wesley Brittin Lecturer, University of Colorado, 1994  
Sackler Lecturer, University of Copenhagen, 1994  
Josiah Willard Gibbs Lecturer, American Mathematical Society, 1996  
Bochner Lecturer, Rice University, 1997  
Sanchez Lecturer, Texas A & M International University, 1998  
Inaugural Witherspoon Lecturer, Washington University, 2001  
Hamilton Lecturer, Royal Irish Academy, 2005  
Harry Middleton Lecturer, the Lyndon Baines Johnson Foundation, Austin, 2007  
Messenger Lecturer, Cornell University, 2007;  
Phi Beta Kappa Orator, Harvard University, 2008  
Sackler Lecturer, Niels Bohr Institute, 2009  
Anson L. Clark Lecturer, University of Texas at Dallas, April, 2010.  
Magde Colloquium, Boston College, April 2011.  
Lee Historical Lecture, Harvard University, December 2014.

## PUBLICATIONS:

Over 350 scientific and other articles, and 15 books:

*Gravitation and Cosmology—Principles and Applications of the General Theory of Relativity* (Wiley, New York, 1972), 3 languages.

*The First Three Minutes—A Modern View of the Origin of the Universe* (Basic Books, New York, 1977), 22 languages,

*The Discovery of Subatomic Particles* (Scientific American/Freeman, San Francisco, 1982), 8 languages.

*Elementary Particles and The Laws of Physics – the 1986 Dirac Memorial Lectures*, with R.P. Feynman (Cambridge University Press, Cambridge, 1987), 4 languages.

*Dreams of a Final Theory* (Pantheon, New York, 1993), 16 languages.

*The Quantum Theory of Fields — Volume I: Foundations* (Cambridge University Press, Cambridge, 1995), 2 languages.

*The Quantum Theory of Fields — Volume II: Modern Applications* (Cambridge University Press, Cambridge, 1996).

*The Quantum Theory of Fields — Volume III: Supersymmetry* (Cambridge University Press, Cambridge, 2000).

*Facing Up — Science and its Cultural Adversaries* (Harvard University Press, 2001).

*The Discovery of Subatomic Particles - Revised Edition* (Cambridge University Press, Cambridge, UK, 2003).

*Glory and Terror - The Growing Nuclear Danger* (New York Review Press, 2004).

*Cosmology* (Oxford University Press, Oxford, UK, 2008)

*Lake Views - This World and the Universe* (Harvard University Press, 2010)

*Lectures on Quantum Mechanics* (Cambridge University Press, Cambridge, UK, 2013).

*To Explain the World - The Discovery of Modern Science* (HarperCollins, New York, 2015, and PenguinGroup, London, 2015).