CURRICULUM VITAE: Lawrence M. Krauss

***Born:***  May 27, 1954; New York City

***Citizenship:*** U.S.A., Canada

***Married:*** 1980-2012 to Katherine Kelley

2014- to Nancy Dahl

***Children:*** Lillian, born Nov. 23, 1984

Santal (step-daughter), born Aug. 14, 2000

***Current Positions:***President, The Origins Project Foundation

Host, The Origins Podcast

Email: krauss@asu.edu

***Mailing Address:*** The Origins Project Foundation

P.O. Box 10632

Phoenix AZ 85064

***Education***

B.Sc. First Class Honours, Mathematics and Physics

Carleton University, Ottawa, Canada, 1977

Ph.D. Physics, Massachusetts Institute of Technology,

Cambridge, Massachusetts, 1982

***Honorary Degrees and Fellowships:***

1998 Fellow, American Physical Society

2001 Fellow, American Association for the Advancement of Science

2003 D.Sc. Carleton University, Ottawa, Canada

***Employment:***

1982-85 Junior Fellow, Harvard Society of Fellows, and Physics Dept., Harvard University

1985-88 Assistant Professor, Dept. of Physics, Yale University

1985-86 Visiting Scientist, Boston University

1985-89 Visiting Scientist, Harvard-Smithsonian Center for Astrophysics

1986-88 Assistant Professor, Department of Physics and Astronomy, Yale University

1988-93 Associate Professor, Departments of Physics and Astronomy, Yale University

1993- 2008 Ambrose Swasey Professor of Physics and Astronomy and chair (thru 2005), Dept. of Physics, Case Western Reserve University

2005 Director, Office of Science, Public Policy, and Bio-Entrepreneurship, Case Western Reserve University School of Medicine

2002-2008 Director, Center for Education and Research in Cosmology and Astrophysics

2006-7 Visiting Professor, Vanderbilt University

2008-2018 Foundation Professor, School of Earth and Space Exploration & Physics Dept. and Director, Origins Project, Arizona State University

2010- 2017 Distinguished Visiting Professor, Research School of Astronomy and Astrophysics, Australia National University

2011- Professor, New College of the Humanities, London, UK

2018- 2019 Professor, School of Earth and Space Exploration & Physics Dept., Arizona State University

2019 President, The Origins Project Foundation

2019 Host, The Origins Podcast

***Visiting Positions:***

CERN associate- 1983

Institute for Theoretical Physics Santa Barbara- 1984, 1985, 1988, 1989,1992, 2002,2003

Smithsonian Astrophysical Observatory- 1984-88

University of Chicago, 1989

Institute for Nuclear Theory, Seattle 1994

Institute for Nuclear and Particle Astrophysics, Lawrence Berkeley Laboratory 1995, 1996, 1998

Scientific Associate, CERN 1996-97

Institute des Hautes Etudes Scientifique 1997-98

Isaac Newton Institute, Cambridge University 1999

Perimeter Institute 2003

Hooker Distinguished Visiting Professor, Origins Institute, McMaster University, 2005

Member, Institute for Advanced Study, 2005

Visiting Professor, Vanderbilt University, 2006-7

Visiting Professor, University of Zurich, 2008,2009

Distinguished Visiting Professor, Mt. Stromlo Observatory, Australian National University, 2010-

James and Jean Davis Prestige Visiting Fellow, Otaga University, 2011

Miegunyah Distinguished Visiting Fellowship, University of Melbourne, 2011

***Other Positions:***

Commentator: Marketplace, All Things Considered 2005-2008

Columnist, Nature Physics, 2005-6

Columnist, New Scientist Magazine, 2007-8

Columnist, Scientific American, 2009-10

Columnist, Slate Magazine 2012-

Chair, APS Forum on Physics and Society 2007

Chair, AAAS Physics Section 2007

APS Panel on Public Affairs, 2009-12

Chair, Board of Sponsors, The Bulletin of the Atomic Scientists, 2009-

Board of Directors, Federation of American Scientists 2010-

Board of Directors of Center for Inquiry 2012-2018

Physics Editorial Board for the College Access Project 2012-

Executive Committee, APS Forum on Physics and Society 2012-15

Chair, Board of Governors, Australia New Zealand Institute of Theoretical Physics, 2012-2013

***Major Awards:***

1984 First Prize Award, Gravity Research Foundation

1986 Presidential Young Investigator Award

1997 Glover Award for Distinction in Physics Achievement and Physics Education, Dickenson College, PA.

2000 Award for Public Understanding of Science and Technology, American Association for the Advancement of Science. Citation: *For global impact as a science communicator and the ability to maintain an active science career while writing several books about physics for the general public.*

2001 Julius Edgar Lilienfeld Prize, American Physical Society. Citation: *For outstanding contributions to the understanding of the early universe, and extraordinary achievement in communicating the essence of physical science to the general public*.

2001 Andrew R. Gemant Award, American Institute of Physics. Citation: *To Professor Lawrence Krauss for excellence in the interpretation of physics to the public through numerous newspaper and magazine articles, books, lectures, and television productions. Krauss is especially commended for his communication of sound scientific literacy through timely opinion pieces and books, and for his efforts to address incorrect popular interpretations of science disseminated in the mass media.*

1. American Institute of Physics Science Writing Award for *Atom, An Odyssey from the Big Bang to Life on Earth and Beyond*
2. Humanism Award, Free Inquirers of Northeast Ohio
3. Oersted Medal, American Association of Physics Teachers.

2004 Northern Ohio Live Award of Achievement: Science and Technology

2005 Joseph A. Burton Forum Award, American Physical Society, Citation: *For major contributions in defending science in the schools through his efforts in combating the opponents of teaching evolution, and for continuing to enhance the public understanding of contemporary physics*

2009                                                 *Center for Inquiry World Congress* Award for

Scholarship in the Public Interest.

2009 Friend of Darwin Award, *National Center for*

*Science Education*

2009 Helen Sawyer Hogg Prize of the Royal

Astronomical Society of Canada and the Astronomical

Society of Canada

2012 National Science Board 2012 Public Service Award

2013 Roma Award Urbs Universalis

2014 Academia Film Olomouc award for Outstanding

Communication of Science

2014 Gravity Research Foundation Essay Award

2015 American Humanist Association’s Humanist of the

Year

2016 Richard Dawkins Award

2016 Freedom From Religion’s “Emperor Has No Clothes Award”

***Other Honors (since 1977):***

1977 Senate Graduating Medal- Carleton University

1977-1981 N.R.C. Postgraduate Scholarship

1982-1985 Junior Fellow, Harvard Society of Fellows

1982-83 N.S.E.R.C. Fellowship

1988 Junior Faculty Fellowship, Yale University

1988 Senior Faculty Fellowship, Yale University

1988 Nesbitt Lecturer, Carleton University

1989 Gravity Research Foundation Prize Award

1990 Named Sigma-Xi National Lecturer (1991-92)

1990 Named to "International Leaders in Achievement"

1991 Gravity Research Foundation Prize Award

1993 Named to Ambrose Swasey Chair in Physics

1995 Gravity Research Foundation Prize Award

1996 Inaugural Distinguish Scientist Lecturer for Young People--Ohio Aerospace Institute

1996 Inaugural Distinguished Physics Lecturer, University of Minnesota

1996 Ohio Achievement Award Selection, Northern Ohio Live Magazine

1997 Hays Lecturer, Oberlin College

1997 Great Poets League of Cleveland Honoree 1997

1998 Cleveland Magazine, 50 Most Interesting People of the Year Award

1997-8 University School-Seelbach Visiting Chair

1998 American Physical Society Centennial Lecturer

1998 Henry Steel Lecturer, Mid America Orthopedic Assn.

1998 Commencement Speaker, Hiram College

1998 13th Annual Frank G. and Jean M. Chesley Lectureship, Carleton College

1998 Herzfeld Lecturer, Catholic University

1. Fellow, American Physical Society

1999- Board of Directors, Physics Entrepeneurship Program.

1999 Gravity Research Foundation Prize Award

1999 Moti Lal Rustgi Memorial Lecturer, SUNY Buffalo

1999 Hendrik de Waard Foundation Lecturer, Groningen, Netherlands

2000 Maurer Memorial Lecturer, University of Arkansas

2000 Vanden Miles Lecturer, Wayne State University

2000 Kallen Lecturer, University of Lund, Sweden.

2000 Benedum Lecturer, University of West Virginia

2000 Great Minds Lecturer, Illinois Math and Science Academy, Aurora IL

2000 Soloist, Holst, The Planets, with The Cleveland Orchestra

2001 Rochester Lecturer, University of Durham, UK

2001 Isaac Asimov Memorial Panelist, American Museum of Natural History, NY

2001 Rorschach Lecturer, Rice University

2001 Shell Lecturer, National Assoc. of Science Teachers

2001 Invited Witness, U.S. House Committee on Science, Session on the Future of Space Exploration

2001 Malstrom Lecturer, Hamline University, Minnesota

2001 Morgan Lecturer, Texas Christian University, Fort Worth Texas

2001 Timothy J. OLeary Distinguished Scientist Lecturer, Gonzaga University

2001 Presidential Inauguration Keynote Speaker Clark University

2001 Campbell Lecturer, Society of Pediatric Urology

2001 Ernest Orlando Lawrence Centenary Lecturer, Lawrence Berkeley Laboratory

2001 Fermi Centennial Lecturer, Fermilab

2001 Fellow, American Association for the Advancement of Science

2002 Knight Fellow, Western Reserve Academy

2002 Friedman Lecturer, Penn State University

2002 Milton Lecturer, Syracuse University

2002 Chancellor’s Lecturer, Vanderbilt University

2002 Fellow, Committee for the Scientific Investigation of Claims of the Paranormal

1. Waynick Lecturer, Penn State University
2. Donald Ross Hamilton Lecturer, Princeton University
3. Woods Lecturer, Westminster College, PA
4. New Frontiers in Information Sciences Distinguished Lecturer, Air Force Research Laboratory, Rome NY
5. Commencement Speaker, Carleton University

2003 Five Colleges Lecturer, U Mass. Amherst

2003 William Mahoney Lecturer, U. Mass Amherst

2003 Presidential Lecturer, Clark University

2004 Joe Barnhart Lecturer, Coastal Bend College, TX

2004 Constance Wilson Distinguished Lecturer, Berry College, GA

2004 Maurice and Yetta Glicksman Commencement Lecturer, Brown University

2004 Likover Lecturer, American Civil Liberties Union.

2004 Samuel Newton Taylor Lecturer, Goucher College

2005 Hooker Professor and Lecturer, McMaster University

2005 Rudin Distinguished Scholar Lecturer, Marymount College

2005 First Annual Mel Oakes Distinguished Undergraduate Lecturer, UT. Austin

2005 World Year of Physics Lecturer, Oak Ridge National Laboratory

2005 Benson Lecturer, Miami University

2005 IBM Yorktown Heights Visions Lecturer

2005 NASA Huntsville, World Year of Physics Lecturer

2005 Sigma Pi Sigma Lecturer, Wright State University

2005 Crump Lecturer, St. Andrews School

2005 Presidential Lecturer, University of Tulsa

2005 IBM Lecturer, Wittenberg University

2005 World Year of Physics Lecturer, Severance Hall

2006 Michigan State Science Teacher’s Distinguished Lecturer

2007-8 Phi Beta Kappa National Visiting Scholar

2006- Board of Sponsors, Bulletin of the Atomic Scientists

2006 Terry Lectureship, Science and Religion, Yale University

2007 Distinguished Scientist Lecture, Brookhaven National Laboratory

2007 Concordia University Distinguished Scientist Lecturer

2007 Gravity Research Foundation Prize Award

2007 Michelson Centenary Lecturer, US Naval Academy.

2007 Inaugural Beyond Institute Lecturer, Arizona State University

2008 Centennial Lecturer, University of Arkansas

2008 Bradley Lecturer, American Enterprise Institute

2008 2008 Michigan State University Distinguished Lecturer

2009 National Lecturer, Australian National Science Week

2010 Todd Lecturer, Butler University

2010 Woods Lecturer, Norwich University.

2010 Smith Lecturer, Davidson College

2010 Distinguished University Lecturer, U. Alberta, Edmonton

2010- Distinguished Visiting Professor, Australian National University

2011 James and Jean Davis Prestige Visiting Fellow, Otaga University

2011 Miegunyah Distinguished Visiting Fellowship,

University of Melbourne

2012 Irving K. Barber Lecture, University of British

Columbia

2012 The Little-Franklin Lecture, Auburn University

2012 Institute of Physics Lecturer, Hobart Tasmania

2012 Math for America Lecturer, UCSD

2013 Distinguished Lecturer Award, Medical Health

Physics Society

2013 Distinguished Lecturer, Williams College

2013 Dean’s Distinguished Lecturer, University of Texas

at Austin

2013 Distinguished Dean’s Lecturer, Radcliffe College

2013 Distinguished Lecturer, University of New Orleans

2013 Asimov Panelist, AMNH

2013 Gordon Tomkins Lecture, UC San Francisco

2013 Laureate of International Academy of Humanism

2014 Distinguished Lecturer, University of

Wisconsin- Madison

2014 Allele Lecturer, University of Alabama

2014 Michael West Lecturer, Queen’s University Belfast

2015 Fetzer Memorial Lecture, Nebraska Wesleyan

University

2016 Schrodinger Lecturer, University of Zurich

2016 The President’s Forum for Critical Thought

Lecturer, Eastern Washington University

2016 Conway Memorial Lecturer, Conway Hall

2017 Frontiers Lecturer, American Museum of Natural

History

***Positions, Offices and Memberships, etc. (since 1977):***

1977 Board of Directors, Canadian Assoc. of Physicists

1981-83, 89- Member (Life), American Physical Society

1983 APS Forum on Physics and Society Awards Cmte.

1985-1987 Yale University Course of Study Committee

1987 Convenor, Lewes Center Summer Meeting on Cryogenic Detection Neutrinos and Dark Matter

1988-1991 Sigma Xi-Committee on Lectureships

1988- Co-organizer, Yale Workshop on Cosmic Strings

1988 Convenor- Cosmology and Astrophysics, APS Particles and Fields Conference 1988

1989 Program Committee, International Conference on Particles and Nuclei

1989 Co-organizer, Yale Workshop on the Cosmic Microwave Background

1989 Member, Panel on Particles of the Astronomy and Astrophysics Survey Committee

1992 Co-organizer, Texas Meeting on Baryon NumberViolation at the Weak Scale.

1992 Director, Association of Yale Alumni Program: The Legacy of Newton

1992 Co-organizer, Aspen Workshop on Gravitational Lensing in Cosmology.

1992 Organizing committee, Colliding Beam Conference, Yale University Oct 2-3 1992

1992- Program Committee Member, Moriond meetings on Electroweak Interactions,

1993 Organizer,Case Meeting on New Physics at New Facilities,Oct 15-17 1993

1994 Organizer, CWRU Workshop: CMB Two Years after COBE, April 22-24, 1994

1994- Executive Committee, Board of Trustees, Friends, Cleveland School for the Arts

1995 Organizer, Aspen Center for Physics Workshop on Big Bang Nucleosynthesis

1995 Member Exhibits Committee, Great Lakes Science Center Board of Trustees

1995- Member, American Astronomical Society

1995-1998 Member, Faculty Senate of Case Western Reserve University

1995- Board of Trustees, Great Lakes Science Center

1995-1997 Organizing Committee, International Conference on Sources and Detection of Dark Matter

1995- Member, New York Academy of Sciences

1995- Member, American Association for the Advancement of Science

1997 Organizing Committee, Early Universe Physics, England 1997

1997-2000 Executive Committee , Division of Astrophysics, American Physical Society

1997-1998 InfoWorld Futures Project Advisory Board

1997- Odyssey Magazine, Advisory Board

1997- Review Panel, M.I.T. Curriculum on Science and Communication

1998 Organizing Committee, Sheffield International Workshop on Dark Matter Detection

1997-1998 Search Committee, Vice-President for Research, Case Western Reserve University

1998- General Member, Board, Aspen Center for Physics

1998-2000 Editor, Modern Physics Letter A

1998-2000 Editor, Int. Journal of Modern Physics

1998- Chair, Exhibits Committee, Great Lakes Science Center Board of Trustees

1998- Executive Committee Great Lakes Science Center

Board of Trustees

1999- Organizing Committee, International Conference on Sources and Detection of Dark Matter

1999 Co-Organizer, Aspen Workshop on the Cosmological Constant

1999- Fellow, American Physical Society

1999-2000 Organizing Committee, DPF 2000 meeting

1999-2000 Co-Organizer, Aspen Workshop on Dark Matter

2000-2001 CWRU, University Stakeholders Committee

2000-2002 American Physical Society, Panel on Public Affairs.

2000 International Advisory Committee, International Conference on Dark Matter Detection.

2001 Advisory Committee, Physics Potential of Supernova Neutrino Detection Meeting, UCLA Feb 2001

2001- Board of Advisors, The Skeptics Society

2001 Convenor, Frontiers of Physics Meeting, Vanderbilt Tenn, March 2001

2001 Chair, Pagels Lecture Committee, Aspen Center for Physics.

2002 International Advisory Committee, International Conference on Dark Matter Detection

2002 Board of Directors, Ohio Citizens for Science

2002 Member, HEPAP Public Outreach Panel

2002- Trustee, Board of Trustees, Cleveland Museum of Natural History

2002 Chair, President’s Commission on Graduate Education and Research, CWRU

2002- Fellow, Committee for the Scientific Investigation of Claims of the Paranormal

2002 Coordinator, Teachers Conference on Cosmology, Institute of Theoretical Physics, Santa Barbara

* 1. Gemant Award Committee, AIP

2003- Board of Advisors, and Guidance Committee, Science Fiction Experience, Seattle Washington

1. Grand Judging Co-Chair, Physics, Intel Science and Engineering International Science Fair
2. Aspen Center for Physics Colloquium Chair
3. Scientific Advisory Committee, SciPart’03
4. Lilienfeld Prize Committee, APS

2003- Board of Directors, TalkingScience

2003- Board of Directors, Faststart Foundation

1. Gemant Prize Committee, AIP
2. Commentator, American Public Media’s Marketplace

2004-2005 Scientific Program Planning Committee, West Quad, Case Western Reserve University Medical School

2004- ACLU Board of Trustees, Cleveland

2004-2005 Chair, Advisory Committee on Research Computing, Information Technology Services, CWRU

2004-2005 Strategic Planning Review Coordinator, Department of Chemistry, CWRU.

2004 Aspen Institute, Executive Seminar

2004 NSF Physics Education Grant Review Panelist

2004-2005 Aspen Center for Physics, Public Lecture Committee

2005 Jury Member, Sundance Film Festival

2005 Elected, Chair-Elect, APS Forum on Physics and Society

2005- Board of Advisors, Defcon (Defense of the Constitution).org

2005 APS Burton and Szilard Award Committee

2005- Commentator, NPR’s All Things Considered

2006- Chair-Elect, Physics Division, American Association for the Advancement of Science

2006 International Advisory Board, International Colloquium on Group Theoretical Methods in Physics

2006- Chair, Advisory Board, Help Ohio Public Schools

2006- Board of Sponsors, Bulletin of the Atomic Scientists

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

2006- National Advisory Board, Scientists and Engineers for America

2007- NASA Primordial Polarization Program Definition Team

2007- Scientific Organizing Committee, International Astronomical Union Symposium, Astronomy and Society

2007 Scientific Organizing Committee, Texas Symposium on Relativistic Astrophysics

2007- Steering Committee, Science Debate 2008

2008 Science Advisory Committee, Barack Obama Presidential Campaign

2009- Panel on Public Affairs, American Physical Society

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

2009 Advisory Board, Dark Matter International Workshop

2009 - 2018 Chair, Board of Directors, Science Friday Foundation

2010 - 2015 Board of Directors, Federation of American Scientists

2011 International Advisory Committee, Identification of Dark Matter Conference

2012 - 2018 Board of Directors Center for Inquiry

2012 Physics Editorial Board for the College Access Project

2012 APS Forum on Physics & Science Executive Committee

2013 Chair, Board of Governors, Australia-New Zealand Institute of Theoretical Physics

2013 Member, International Academy of Humanists

2015 - 2018 Chair, Board of Sponsors, Bulletin of the Atomic Scientists

2015 Board of Experts, Federation of American Scientists

2016 Advisory Committee, Breakthrough Starshot

***Major Lectures:***

1. *University or Laboratory Colloquia* (does not include seminars):

Harvard University 1983 California Institute of Technology 1984

Stanford University 1984 U. Mass Amherst 1984

MIT 1984 Institute for Theoretical Physics-UCSB 1984

SLAC 1985 U.C. Santa Barbara 1985

CITA-Toronto 1985 TRIUMF 1985

DAO-Victoria 1985 University of Chicago 1985

Brookhaven Laboratory 1986 New York University 1987

Stanford University 1987 University of Illinois 1987

Brown University 1987 University of Chicago 1987

MIT-1987 Ecole Polytechnique 1988

LBL-1988 Arizona, 1988

U.C. Irvine 1988 Michigan 1989

Institute d'Astrophys. Paris 1989 Cincinnati 1989

McGill 1990 William and Mary 1990

Brigham Young University 1991 City College of New York 1991

Yale University 1991 Queen's University 1991

University of Cincinnati 1991 University of British Columbia 1992

ATT 1992 University of Florida 1992

NIST 1992 Case Western Reserve 1992

Naval Research Lab 1993 NYU 1993

NASA-Goddard 1994 Institute for Advanced Study 1994

Case Western Reserve 1995 Chinese University of Hong Kong 1995

Harvard University 1995 Ohio State University 1996

U.C. Riverside 1996 University of British Columbia 1996

Simon Fraser University 1996 University of Maryland 1996

University of Minnesota 1996 Caltech 1996

CERN 1997 ETH 1997

U.T. Austin 1997 CERN 1997

Cal. State Long Beach 1997 CWRU 1997

University of Akron 1998 University of Kentucky 1998

Directors Colloquia, LANL 1998 Purdue University 1998

Johns Hopkins University 1998 University of New Mexico 1998

NIST 1998 ICTP Trieste 1998

CWRU 1998 Catholic University of America 1998

Washington U. St. Louis 1999 Penn State University 1999

University of Montreal 1999 M.I.T. 1999

Aspen Center for Physics 1999 Notre Dame 1999

Dartmouth 1999 Kansas State 1999

University of Kansas 1999 Caltech 2000

Stanford 2000 U.C. San Diego 2000

Michigan State University 2000 U. C. Berkeley 2000

Wayne State University 2000 Indiana University 2000

University of Arkansas 2000 Fermi National Accelerator Lab 2000

University of Il. Urbana 2000 Xerox PARC Research Center 2000

University of Akron 2000 Syracuse University 2001

Lawrence Berkeley Lab. 2001 University of Rochester 2001

University of Texas Austin 2002 Cornell University 2002

Vanderbilt University 2002 University of British Columbia 2002

KITP, Santa Barbara, 2002 NYU 2003

Clark University 2003 UNC 2004

Washington University 2004 Upsalla University 2004

Stockholm University 2004 University of Virginia 2005

McMaster University 2005 Oak Ridge National Laboratory 2005

Stanford University 2005 Wittenberg College 2005

University of Chicago 2005 IBM Yorktown Heights 2005

Rockefeller University 2005 Institute for Advanced Study 2005

Kent State 2005 Columbia University 2006

Harvard University 2006 Case Western Reserve University 2006

Vanderbilt University 2006 University of Kansas 2007

Allegheny College 2007 U.C. Berkeley 2007

Physical Review, APS 2007 McGill University 2007

University of Arkansas 2008 University of Michigan 2008

Old Dominion University 2008 Michigan State University 2008

University of Zurich 2008 Arizona State University 2008

University of Arizona 2009 Case Western Reserve University 2009

University of Texas 2009 Space Telescope Science Institute 2009

University of Auckland, 2010 University of Melbourne 2010

NASA Goddard 2010 Australian National University 2010

Max Planck Inst. Hanover 2010 Inst. Math Phys. Of Universe, U. Tokyo 2010

Institute for Advanced study 2011 Jet Propulsion Laboratory 2011

University of Otago 2011 University of California, San Diego 2011

University of Melbourne, 2011 Australia National University 2011

Mount Stromlo 2011 CERN 2011

Macquarie University 2012 Columbia 2012

UCSB 2012 Williams College 2013

Gran Sasso Laboratory 2013 Yale University 2013

University of Manchester 2013 Harvard 2016

KICP 2017 Santa Fe Institute, 2017

1. ***Conferences -Invited Lectures:***

3M Lecture series- Carleton College, 1982

Western Theoretical Conference, 1982

Neutrino, 1984

EST Meeting, 1984

Telemark Neutrino Conference, 1984

Yale Theoretical Advanced Study Institute in Elementary Particle Physics, 1985

Moriond, 1986

Fermilab Beam Dump Workshop, 1986

Seventh Vanderbilt High Energy Physics Conference, 1986

International Conference on High Energy Physics (2 lectures), U.C. Berkeley, 1986

Opening Lecture, Rencontres de Moriond, 1987

AAAS Annual Meeting, 1988

Rencontres de Moriond, 1988 (2 lectures)

APS Baltimore Meeting, 1988

Plenary Lecture-APS/AAPT New England Meeting, 1988

Plenary Lecture, Neutrino 1988

MIT Conference on Gravitational Lenses, 1988

Yale Workshop on Cosmic Strings, 1988

Plenary Lecture, Berkeley Conference on Particle Astrophysics, 1988

Aspen Winter Conference, 1989

Rencontres de Moriond, 1989 (2 lectures)

APS Baltimore Meeting, 1989

Plenary Lecture, French Physical Society 1989

Moriond, 1990 (2 lectures)

Wisconsin Phenomenology Conference, 1990

IUPAP Conference, 1990

APS New England Meeting, 1990

After the First Three Minutes, 1990

International Conference On Trends in Particle Astrophysics, 1990

APS New England Meeting, 1991

XIV International Warsaw Meeting on Elementary Particle Physics, 1991

2nd International Conference on Theoretical and Phenomenological Aspects of

Underground Physics, 1991

Aspen Winter Conference on Particle Physics, 1992

Symposium on Black Holes Strings, Wormholes, 1992

Florida Workshop on Dark Matter, 1992

Franklin Symposium on Neutrino Physics, 1992

IVth Rencontre de Blois: Particle Astrophysics, Plenary Lecture, 1992

Plenary Lecture, International Conference on Particle Physics, 1992

International Conference on Neutrino Astrophysics, 1992

Moriond meeting on Atomic, Gravitational and New Physics, 1993

International Workshop on Neutrino Telescopes, 1993

Rencontres de Physique de la Vallee dAoste, La Thuile, 1993

Opening Lecture, Moriond Meeting on Electroweak Interactions, 1993

Twelfth International Workshop on Weak Interactions, 1993

International Conference on Particle Astrophysics, 1994

Nordic Winter School on Particle Physics, 1994

U.C.L.A. Conference on Critiques of Sources of Dark Matter, 1994

INT Meeting on Solar Modelling and Solar Neutrinos, 1994

Snowmass Workshop on Particle Astrophysics, 1994

Trends in Particle Astrophysics, 1994

Polish Workshop on Particle Physics: From the Weak Scale to the Planck Scale, 1994

ITP Santa Barbara, Clustering and Cosmic Microwave Workshop, 1995

Keynote Speaker, Ohio Section, American Assoc. of Physics Teachers, 1995

Keynote Speaker, National Teacher Training Institute, 1995

Teacher Resource Workshop -Am. Ass. of Phys. Teachers Nat. Meeting, 1995

Rencontre du Vietnam, October 1995

Plenary Speaker, Pan Asian Conference on Cosmology, 1996

International Conference on Sources and Detection of Dark Matter, UCLA 1996

Keynote Speaker, Ohio Section, American Physical Society, 1996

Plenary Speaker, International Workshop on Neutrino Telescopes, 1996

Plenary Speaker, Dark Matter, 1996

Keynote Speaker, Ohio Aerospace Institute Professional Conference, 1996

American Association of Physics Teachers/Long Island Physics Teachers Conference,

1996

La Thuile, Rencontre de Physics, 1997

Napoli Thinkshop on Astrophysics: The Search for Extraterrestrial Intelligence, 1997

Rome Conference on the Future of the Standard Model, 1997

San Minateo Conference: The Irresistible Rise of the Standard Model, 1997

Edoardo Amaldi Meeting on Gravitational Waves, CERN 1997

Nasa Lewis Meeting: Breakthrough Propulsion, 1997

DOE, Office of Energy Research, Science Themes and Strategic Planning, 1998

International Conference on Sources and Detection of Dark Matter, UCLA 1998

Space Policy Institute: Plenary Lecturer, Symposium on Astrobiology and the Search

for Extraterrestrial Life, George Washington University, March 1998

PASCOS 1998, Plenary Lecture, March 1998

Keynote Speaker, APS-AAPT Educator Workshop, Columbus, April 1998

Plenary Speaker, Tropical Workshop on Particle Physics and Cosmology, April 1998

Henry Steel Lecture, Mid-American Orthopedic Assn, April 1998

Plenary Lecturer, WEIN98, International Conference on Physics Beyond the Standard

Model, June 1998

Keynote Address, Fermilab Annual Users Meeting, August 1998

Plenary Speaker, International Workshop on Dark Matter, September 1998

Conference on Relic Neutrinos, September 1998

NASA Space Exploration Planning Meeting, Lewis Research Center, September 1998

Pritzker Symposium and Workshop on Inflationary Cosmology, February 1999

Gordon Conference, Nuclear Chemistry, Keynote lecture, June 1999

Aspen Center for Physics Workshop on the Cosmological Constant, June 1999

Plenary Opening Lecture, Am. Assoc. of Physics Teachers Nat. Meeting, August 1999

Workshop on Physics of the Early Universe, Newton Institute, September 1999

Plenary Lecture, Cosmo 99, ICTP, September 1999

Plenary Lecture, News from the Universe Meeting, DESY, October 1999

Chairman and Speaker, National Academy of Sciences Frontiers of Science Meeting,

Beckman Center, November 1999

British Particle Physics Association/Royal Astronomical Society Annual Conference,

April 2000

National Academy of Sciences Annual Meeting, April 2000

Kallen Memorial Symposium, May 2000

WIPP Underground Physics Workshop, June 2000

Problems of Vacuum Energy, August 2000

Science in the 21st Century, August 2000

Opening Lecture, Third International Workshop on the Detection of Dark Matter,

September 2000

The Far Future of the Universe, The Vatican, November 2000

Invited Lecture, MRI International Meeting, February 2001

Plenary Lecture, Int. Conference on Neutrino Telescopes, March 2001

National Academies Symposium on Physics, June 2001

TASI Summer School, June 2001

Plenary Lecturer, Cottrell Scholars Workshop, July 2001

National Research Council and American Physical Society, “Grand Challenges for the 21st

Century, U.S. House of Representatives, July 2001

Scottish Universities Summer School in Physics, August 2001

Opening Lecture, COSMO 2001, International Meeting on Particle Physics and the

Early Universe, August 2001

Workshop on Cosmological Probes of Dark Energy, December 2001

Plenary lecture ESO-CERN-ESA Symposium on Astronomy, Cosmology and Fundamental Physics, March 2002

Plenary Lecture, APS Ohio Section Meeting, April 2002

Plenary Lecture, Canadian Association of Physicists Annual meeting, June 2002

Featured Speaker, Gordon Research Conference on Organic Reactions, July 2002

Plenary Lecture, Portuguese Physical Society, September 2002

Institute for Theoretical Physics Workshop on Dark Matter and Dark Energy, Sept.-Nov. 2002

Institute for Theoretical Physics, Santa Barbara Teachers Workshop on Cosmology, October 2002

Lecturer, Canary Islands Winter School in Astrophysics, November 2002

Invited Plenary Lecture, “From Here to Eternity” Conference in honor of J. Silk’s 60th Birthday, Oxford University, December 2002

Invited Topical Lecturer, AAAS Annual Meeting, February 2003

Plenary Lecture, Physical Cosmology ’03, June 2003

Plenary Lecture, Respect for All Involved: A National Symposium on Research Integrity, Columbia University, CUNY, September 2003

Opening Lecture, CERCA conference on the Future of Cosmology, October 2003

Great Lakes Planetarium Assoc Plenary Lecture, October 2003

Sources and Detection of Dark Matter and Dark Energy in the Universe, UCLA, February 2004

American Physical Society Meeting, April 2004

Aspen Institute and Aspen Center for Physics Einstein Celebration, August 2004

COSMO ’04, September 2004

Evolution and God Symposium, October 2004

CERCA, Science and Society Symposium, October 2004

World Congress of Science Producers, November 2004

Aspen Center for Physics Winter Meeting, February 2005

Seventh Symposium, Internacional Physica, February 2005

Princeton-Oxford Cosmology Meeting, March 2005

American Physical Society Meeting, April 2004

NASA Hunstville World Year of Physics Conference, April 2005

SLAC Summer School in Physics, Summary Lecturer, Aug 2005

100 Years in Physics Conference, August 2005

International Conference on Physics Education, September 2005

APS Nuclear Physics Conference, October 2005

International Conference on Humanism, November 2005

Canadian Undergraduate Physics Conference, November 2005

Inaugural Kavli Instiitute New Views of the Universe Conference, University of Chicago, Opening Lecture, December 2005

Aspen Center for Physics Winter School, January 2006

III International Workshop on: NO-VE, Neutrino Oscillations, February 2006

Sources and Detection of Dark Matter and Dark Energy in the Universe, UCLA, February 2006

Michigan State Science Teachers Conference, February 2006

Confronting Gravity, March 2006

NES APS and AAPT Conference, Boston University, March 2006

Texas A&M Forefront of Physics Meeting, April 2006

Hadron Collider Physics Symposium, Duke University, May 2006

Communicating Science and Technology, June 2006

Neutrino 2006, June 2006

Ideas Festival, Aspen Institute, July 2006

Under the Spell of Physics, July 2006

Banff Center, Science Communication, August 2006

Max Delbruck Fest, Cold Spring Harbor Lab, August 2006

Evolution and Faith, Marist College, October 2006

Beyond Belief, Salk Institute, November 2006

Science and Society, January 2007

AAAS Annual Meeting, February 2007

Open Questions in Cosmology, Imperial College, March 2007

APS Annual Meeting, April 2007

Society for Heart and Lung Transplantation, April 2007

American Physiological Society, April 2007

Dark Matter Workshop, Fermilab, May 2007

New Horizons at Colliders, Brookhaven National Laboratory, May 2007

European Conference of Science and Technology Museums, June 2007

Canadian Association of Physicists National Meeting, June 2007

Idea City, June 2007

Workshop on Supernovae, June 2007

Science and Media Conference, July 2007

Ideas Festival, July 2007

Fundamental Questions, FQXI Meeting, July 2007

Chalonge Meeting on Cosmology, August 2007

NASA Thermal and Fluids Workshop, September 2007

International Conference on Science and Humanism, October 2007

Genoa Science Festival, October 2007

Kshitij, January 2008

American Association for the Advancement of Science Annual Meeting, February 2008

Science and Religion workshop Aspen Institute, March 2008

American Atheists Association, March 2008

American Chemical Society Annual Meeting, President’s Session, April 2008

Trieste Science Media Festival, April 2008

Space Telescope Science Institute Meeting on Dark Energy, May 2008

World Science Festival, May 2008

Fermilab Workshop of Gravitational Waves and Polarization, Fermilab, June 2008

Chalonge Meeting on Cosmology, July 2008

Cosmo 08, August 2008

Sea of Faith Conference, September 2008

Science and Public Policy, Minneapolis Innovation Meeting, October 2008

Beyond Belief, Salk Institute, October 2008

Canadian Undergraduate Physics Association, October 2008

Tokyo Meeting in Honor of K. Sato, November 2008

Texas Symposium on Relativistic Astrophysics, Plenary Speaker, December 2008

UNESCO International Year of Astronomy Inaugural Meeting, Plenary Speaker, January 2009

AAAS Annual Meeting, February 2009

AAPT Annual Meeting, February 2009

Inaugural Origins Symposium, April 2009

Fifth International School on Field Theory and Gravitation, April 2009

Physics and the Universe, May 2009

IAU International Symposium, August 2009

Institute of Cosmology 20th Anniversary Meeting on Cosmology, August 2009

Atheist Alliance International Plenary Speaker, October 2009

Penn Center for Astroparticle Physics Inaugural Symposium, December 2009

Physics of the Universe Conference, Caltech January 2010

Doomsday Clock Symposium, January 2010

Unsolved Problems in Gravity, January 2010

Origins of Human Uniqueness and Behavioral Modernity, February 2010

Rightful Place of Science, May 2010

Origins of Morality, November 2010

Origins of Life: the RNA World Revisited, February 2011

Origins Science and Culture Festival, April 2011

The Amazing Meeting, July 2011

Club COSMOS, August 2011

Ultimo Science Festival, August 2011

Singularity Summit, August 2011

Denkfest, September 2011

Peace Bar Festival, October 2011

Science Teller Festival, November 2011

Doomsday Clock Symposium, January 2012

Darwin Week, The University of Northern Iowa, February 2012

AAAS Annual Meeting, February 2012

Reason Rally, March 2012

American Atheists National Convention, March 2012

Global Atheists Convention, April 2012

ISHLT Annual Meeting, April 2012

Vanity Fair Tribute to Christopher Hitchens, April 2012

Annual Health Disparities Leadership Summit, April 2012

Auckland Writers & Readers Festival, May 2012

Atheists Alliance International North American Convention, May 2012

World Science Festival, May 2012

Aspen Ideas Festival, July 2012

Aspen Center for Physics, May 2012

The Amazing Meeting, July 2012

Canberra Skeptics, September 2012

The Big Bang and the interfaces of knowledge towards a common language, October

2012

Origins of Deception, October 2012

Math for America, October 2012

Sky & Telescope Cosmic Trails 5 Cruise, November 2012

World Economic Forum, January 2013

Climate Change Workshop, February 2013

Question, Explore, Discover, April 2013

Sydney Writer’s Festival, May 2013

HowTheLightGetsIn2013, May 2013

Oklahoma Freethought Convention, June 2013

Conference in Honour of the 90th Birthday of Freeman Dyson, August 2013

The Nobel Conference, September 2013

The New Yorker Festival, October 2013

Smart Festival, October 2013

ECAR Annual Meeting, January 2014

Great Debate Parallel Realities: Probing Fundamental Physics, February 2014

AAAS Annual Meeting, February 2014

American Physical Society Annual Meeting, February 2014

IB Asia Pacific Annual Conference 2014, March 2014

Great Debate Transcending Our Origins, April 2014

NECSS Conference, April 2014

AFO Festival, April 2014

HowTheLightGetsIn2014, May 2014

Galapagos Voyage, June 2014

CFI Galapagos Archipelago, June 2014

BrisScience Talk, August 2014

The Victorian Skeptics, August 2014

World Economic Forum Annual Meeting of the New Champions, September 2014

Zocalo Public Square Can Science Fiction Revolutionize Science?, September 2014

Apostacon, September 2014

Freeflow 2014, October 2014

La Ciudad de las Ideas, November 2014

Plenary Invited Lecture, 21st International Congress of the Australian Institute of

Physics, December 2014

World Economic Forum Annual Meeting 2015, January 2015

Great Debate Extinctions: Tragedy to Opportunity, February 2015

AFO Festival, April 2015

American Humanist Association Annual Conference, May 2015

HowTheLightGetsIn, May 2015

Skeptics Conference, May 2015

Imagine No Religion 5, June 2015

ISS2015, June 2015

The Non-Conference, August 2015

ASU School of Earth and Space Exploration Discover Lecture Series, August 2015

La Ciudad de las Ideas, November 2015

Union Theological Society, November 2015

Scientific Controversies with Janna Levin, November 2015

Devoxx Belgium, November 2015

Science and Adventure in Antarctica, December 2015

Einstein’s Legacy, Celebrating 100 Years of General Relativity: An Origins Project

Panel, January 2016

Trondheim Science Week, March 2016

Origins of the Future, April 2016

HowTheLightGetsIn, May 2016

Reason Rally, June 2016

Aspen Ideas Festival, June 2016

SciFoo 2016, July 2016

Frankfurt Experimental Search for Quantum Gravity Conference, September 2016

2016 Blouin Creative Leadership Summit, September 2016

Freedom from Religion National Convention, October 2016

Fysikdagarna Conference, October 2016

Australian Skeptics National Convention, November 2016

Star Trek: The Cruise, January 2017

ReasonCon3, April 2017

Absicon Panel: Managing Earth as a Planet, April 2017

Origins Water Workshop, April 2017

Sydney Writers Festival, May 2017

Hay Festival, May 2017

Imagine No Religion 7, May 2017

Auckland Writers Festival, May 2017

Geek Picnic, June 2017

4th European Conference for Science Journalists, June 2017

IEEE International Frequency Control System and European Frequency Time Forum,

July 2017

El Cosmos, September 2017

Pennsylvania State Atheist/Humanist Conference, October 2017

Purdue University Northwest Sinai Forum, October 2017

Skepsis Congress, October 2017

Ciudad de las Ideas, November 2017

Lise Meitner Days, November 2017

Origins Amazon Cruise, January 2018

Doomsday Clock Announcement, January 2018

1. ***Major Public Lectures:***

Nesbitt Lecture, Carleton University, November 1988

Museum of Natural History/ New York Astronomical Society Lecture, December 1989

National Air and Space Museum--Opening Lecture

Hughes-Danbury Series, February 1990

New York Open Center---Visions of the 21st Century Series, NYU, October 1990

15 Sigma Xi National Lectures, 1991-93

Wheeler Opera House, January 1992

Cleveland Museum of Natural History, May 1994

Smithsonian-Associates, Department of the Interior, Washington 1995

Wheeler Opera House, January 1996

U.C. Berkeley, February 1996

Cincinnati Museum of Natural History, March 1996

Royal Ontario Museum, April 1996

Ohio Aerospace Institute, May 1996

Smithsonian Institution, August 1996

Lawrence Livermore Laboratory, August 1996

Carleton University, October 1996

Howard Hughes Lecture, Case Western Reserve University, October 1996

University of Minnesota, November 1996

Ontario Science Centre, November 1996

Canadian Museum of Civilization, February 1997

CERN, March 1997

Museum of Innovation, April 1997

U.S. Coast Guard Academy, April 1997

Great Lakes Science Center, May 1997

Citta della Scienzia, June 1997

Hays Lecture, Oberlin College, September 1997

Glover Lecture, Dickinson College, September 1997

Cal State University at Long Beach, Odyssey Program, September 1997

Cleveland Museum of Natural History, 1997

Hayden Planetarium, November 1997

Smithsonian Institution, November 1997

Commencement Address, Hiram College, May 1998

Jodrell Bank Observatory, September 1998

Chesley Lectures, Carleton College, 1998

Herzfeld Lecture, Catholic University of America, 1998

American Physical Society, Centennial Meeting, 1999

Cleveland Museum of Natural History, 1999

Irish Science Week, 1999

Hendrik de Waard Lecture, 1999

Stark Lecture, University of Arkansas, March 2000

Vanden Miles Lecturer Wayne State University 2000

Harvard Millennium Lecture, 2000

Edinburgh Science Festival Lecture, 2000

Inaugural Asian Physics Olympiad Lecture, 2000

National Academy of Sciences, April 2000

Kallen Memorial Symposium, Lund Sweden May 2000

Keynote Public Lecture, WIPP Center, June 2000

Heinz Pagels Memorial Lecture, Paepke Auditorium, July 2000

City Club Forum, Cleveland OH, August 2000

Narration, The Planets, with Cleveland Orchestra, Blossom Music Center, 2000

York, United Kingdom, September 2000

Performers and Artists for Nuclear Disarmament Concert, September 2000

Benedum Lecture, West Virginia University, October 2000

Association of Science and Technology Centers (ASTC2000) Annual Meeting,

October 2000

Xerox Palo Alto Research Center, November 2000

John Carroll University, November 2000

Great Minds Lecture Series, Illinois Math and Science Academy, December 2000

Quark Matter 2001, January 2001

Rochester Lecture, University of Durham, February 2001

Asimov Panelist, Museum of Natural History, February 2001

Vanderbilt University, March 2001

Rorschach Lecture, Rice University, March 2001

Shell Lecture, Natl Assoc. of Science Teachers Annual Meeting, March 2001

Inauguration Lecture, Clark University, March 2001

OLeary Distinguished Scientist Lecturer, Gonzaga University, April 2001

Morgan Lecturer, Texas Christian University, April 2001

Malstrom Lecture, Hamline University, April 2001

Distinguished Author Lecture, Museum of Natural History, April 2001

Skeptics Lecture, Caltech, May 2001

National Academy of Science, June 2001

Aspen Center for Physics, July 2001

Snowmass CO, July 2001

Lawrence Centenary Lecture, U.C. Berkeley, July 2001

Directors Distinguished Lecture, Lawrence Livermore Laboratory, July 2001

2001 University National Colloquium, Wesleyan University, September 2001

Fermi Centennial Lecture, Fermi National Laboratory, October 2001

People Have the Power Tour, with Ralph Nader, Cleveland OH, October 2001

Keynote Address, Virginia Assoc. of Science Teachers, November 2001

John Carroll University, November 2001

Evolution and God Symposium, Allen Theater, March 2002

Ohio Board of Education, March 2002

Friedman Lecture, Penn State University, April 2002

City Club, Cleveland, April 2002

Arts and Science Lecture Series, Portland Arts Center, May 2002

Gemant Lecture, William and Mary College, May 2002

Milton Lecture, Syracuse University, October 2002

Chancellor’s Lecture, Vanderbilt University, October 2002

City Club, Cleveland, December 2002

Perimeter Institute Public Lecture, December 2002

Science and Religion Lecture, John Carroll University, January 2003

Science and Journalism Lecture, Carleton University, February 2003

KITP Public Lecture, March 2003

Waynick Lecture, Penn State University, April 2003

Hamilton Lecture, Princeton University, April 2003

Woods Lecture, Westminster College, May 2003

Explorer Lecture, Cleveland Museum of Natural History, May 2003

European Space Agency, Distinguished Scientist Lecture, Holland, June 2003

Space Place, Madison Wisconsin, August 2003

Five College Lecture, U. Mass Amherst, October 2003

Presidential Lecture, Clark University, November 2003

Odyssey Lecture, Cal State, Long Beach, Dec 2003

Barnhart Lectures, Coastal Bend College, March 2004

Wilson Distinguished Lecture, Berry College, March 2004

Glicksman Lecture, Brown University, May 2004

Aspen Institute, Beyond Einstein Symposium, August 2004

White Dog Cafe, Philadelphia, September 2004

ACLU Annual Likover Lecture, October 2004

Evolution and God Symposium, October 2004

Futures Forum, Cleveland, October 2004

Samuel Newton Taylor Lecture, Goucher College, November 2004

AAAS Lecture, December 2004

Origins Institute Lecture, McMaster University, January 2005

Rudin Distinguished Scholar Lecture, Manhattan Marymount College, March 2005

Distinguished Undergraduate Lecture, U.T. Austin, March 2005

Benson Lecture, Miami University, March 2005

NASA Huntsville, World Year of Physics/Millennium 2 lecture, April 2005

World Year of Physics, American Physical Society Public Lecture, April 2005

World Year of Physics, Sigma Pi Sigma Lecture, Wright State, April 2005

Crump Lecture, St. Andrews School, April 2005

San Jose Resident Scholar Lecture, April 2005

Explorer Lecture, Cleveland Museum of Natural History, May 2005

University of Georgia, VP Research Open Forum, June 2005

University of Washington/ Wenatchee Confluence Technology Center, July 2005

Blossom Music Center, Cleveland Orchestra, Holst, The Planets, July 2005

Vancouver British Columbia, Rodgers Lecture American Urology Assoc., August 2005

100 Years in Physics, Singapore, August 2005

International Conference on Physics Education Public Lecture, August 2005

2005 Jonah Lecture, Mount Allison University, September 2005

Maui, Hawaii, APS Nucl. Conference Public Lecture, Sept 2005

Visions Colloquium, IBM Yorktown Heights, October 2005

St. Louis Science Center, October 2005

University Lecture, Rockefeller University, October 2005

Center for Inquiry Lecture, New York Academy of Medicine, October 2005

Presidential Lecture, Tulsa, OK, October 2005

American Enterprise Institute Keynote Address, October 2005

National Council of Science Writers, October 2005

International Humanism Conference, October 2005

Canadian Undergraduate Physics Conference, October 2005

Skeptics Society Lecture, Caltech, October 2005

Categorically Not!, October 2005

Kavli Inst. Public Lecture, November 2005

World Congress of Science Producers, November 2005

Smithsonian Institution, November 2005

Frontiers of Astronomy, Cleveland Museum of Natural History, November 2005

World Year of Physics Lecture, Cleveland OH, November 2005

IBM Lecture, Wittenberg College, November 2005

Goethe Institute, November 2005

World Year of Physics Lecture, Kent State University, November 2005

Kavli Institute Public Forum on Cosmology, December 2005

Akron Press Club, January 2006

Wheeler Opera House, Aspen Winter Series, January 2006

Colorado College, February 2006

The City Club, Cleveland, February 2006

Cleveland Museum of Art, February 2006

Lower Columbia College, March 2006

St. Thomas, USVI, March 2006

College of New Jersey, March 2006

Wagner College, March 2006

Asimov Memorial Debate, American Museum of Natural History, March 2006

Bob Dole Center, University of Kansas, April 2006

Kalamazoo College, April 2006

Texas A&M University, April 2006

Duke University, May 2006

Smithsonian Institution, July 2006

Seattle Town Hall, September 2006

Yale University, September 2006

University of Colorado Boulder, September 2006

SUNY Binghamton, October 2006

Marist College, October 2006

Vanderbilt University, October 2006

Cleveland Orchestra, Severance Hall, December 2006

Rowfant Club, Cleveland OH, December 2006

Cleveland Museum of Natural History, January 2007

Nashville Unitarian Church, February 2007

University of Kansas, March 2007

TV of Tomorrow, San Francisco, March 2007

Allegheny College, March 2007

Smithsonian Institution, March 2007

Lawrence Hall of Science, April 2007

Dyer Observatory Exploration Night, April 2007

Veritas First Light Festival, April 2007

St. Olaf College, May 2007

Rally For Reason, May 2007

Brookhaven National Laboratory, May 2007

Caltech, June 2007

IdeaCity, Toronto, June 2007

Aspen Ideas Festival, July 2008

UCLA, July 2007

Center for Inquiry, Cleveland August 2007

Concordia University, October 2007

Genoa Science Festival, November 2007

Arizona State University Beyond Center, November 2007

Smithsonian Institution, January 2008

IIT, February 2008

University of Arkansas Centennial Lecture, February 2008

American Enterprise Institute, February 2008

Michigan State University Distinguished Lecture, April 2008

Trieste Science Festival, April 2008

University of Zurich, May 2008

U.C. Davis, June 2008

Great Lakes Science Center, June 2008

Ingenuity Festival, July 2008

City Club, Cleveland, August 2008

Sea of Faith, September 2008

Templeton Lecture, September 2008

Creative Nonfiction, October 2008

Beyond Belief, October 2008

Center for Inquiry, Portland, October 2008

Canadian Undergraduate Physics, October 2008

Science and Public Policy, October 2008

Hampshire College, October 2008

New York State Teachers Convention, November 2008

La Ciudad de las Ideas, November 2008

Fort Worth Texas, November 2008

UNESCO Inaugural meeting, International Year of Astronomy, Astronomy and

Culture, January 2009

Darwinfest Minisymposium, Revolutionary Ideas, February 2009

Purdue University, February 2009

Middlebury College April 2009

New School, NY April 2009

University of Zurich, June 2009

World Science Festival, June 2009

Moonfest, NASA Ames, July 2009

Division of Particles and Fields Annual Meeting, July 2009

Australian National Science Week, National Lecturer, August 2009

Perimeter Institute, Quarks to the Cosmos October 2009

CFI National Cruise, November 2009

Scientific American Cruise, December 2009

Todd Lecture, Butler University, February 2010

Woods Lecture, Norwich University, February 2010

Beattie Lecture, McGill University, March 2010

Dunedin, New Zealand March 2010

University of Auckland, March 2010

Stockholm, April 2010

World Science Festival, May 2010

University of British Columbia, Vancouver, July 2010

Australian National University, September 2010

Smith Lecture, Davidson College, October 2010

University of Alberta and Telos Science Center, September 2010

30th Anniversary Secular Humanism National Conference, October 2010

National Association of Montessori Teachers Keynote Address, October 2010

Southern Oregon University, October 2010

University of Maryland, November 2010

Arizona State University, Great Debate November 2010

Light in Winter Festival, January 2011

World Economic Forum, January 2011

Arizona State University, Great Debate February 2011

Australia National University, February 2011

North Carolina State University, March 2011

Chicago Public Library, April 2011

American Atheists National Convention, April 2011

California Institute of Technology, April 2011

American Physical Society, May 2011

Center for Inquiry Cruise, May 2011

Australian National University, June 2011

Curtin University, June 2011

Miegunyah Lecture, August 2011

Oslo University Lecture, September 2011

School of Life Lecture, October 2011

Scientific American’s Bright Horizons Cruise, October 2011

Smithsonian Lecture, January 2012

Caltech Lecture, January 2012

National Capital Area Skeptics Talk, January 2012

Ethical Humanists Society of Philadelphia, January 2012

Museum of Natural History Lecture, January 2012

ASU Origins Project, February 2012

Center for Inquiry, Calgary, February 2012

Irving K. Barber Lecture, University of British Columbia, February 2012

The Little-Franklin Lecture, Auburn University, March 2012

Chautauqua Institution, July 2012

Australian Institute of Physics, August 2012

London School of Economics and Political Science, September 2012

New College of the Humanities, September 2012

A Universe from Nothing in Amsterdam, September 2012

Lewes Skeptics in the Pub, September 2012

Portsmouth Lecture, October 2012

The Great Debate: The Origins of Deception, October 2012

United States Naval Academy, December 2012

Intelligence Squared Debate, December 2012

UCSB Sage Center Lecture, December 2012

Medical Health Physics Society, January 2013

The Smithsonian, January 2013

The Great Debate: Climate Change, Surviving the Future, February 2013

Williams College, February 2013

ANITA, February 2013

Science and Film Lecture, February 2013

TheBIGDebates – Islam or Science, February 2013

Oxford Union Debate, March 2013

Kit Kat Club, March 2013

Royal Swedish Academy, March 2013

Montana State University, March 2013

Science, Myth, Reality: the Unbelievers Panel Discussion, March 2013

The Storytelling of Science, March 2013

Isaac Asimov Memorial Debate: the Existence of Nothing, March 20, 2013

University of Texas at Austin, April 2013

University of Bergen, April 2013

University of Manchester, April 2013

Radcliffe Institute for Advanced Study, April 2013

University of New Orleans, April 2013

Australia National University, July 2013

Life, the Universe, and Nothing – A three-part conversation, August 2013

Carleton University, September 2013

The Royal Institution, October 2013

Het Denkgelag Royale, October 2013

University of South Florida, November 2013

UC San Francisco, November 2013

Canberra Skeptics Lecture, December 2013

University of Wisconsin, February 2014

United World College of South East Asia, March 2014

University of Alabama, April 2014

DAI – Heidelberg, October 2014

Astrophysics Research Center, October 2014

Origins Project Dialogue: Alda and Krauss, January 2015

A Passion for Science and Reason: An Evening with Richard Dawkins and Lawrence

Krauss, January 2015

Origins Project Dialogue: Life and the Universe, February 2015

Origins Project Dialogue: Randomness and Uncertainty, February 2015

Nebraska Wesleyan University, March 2015

Chomsky and Krauss: An Origins Project Dialogue, March 2015

For Thought Origins Lecture at Sydney Opera House, June 2015

For Thought Origins Lecture at The Wheeler Centre, June 2015

Singer and Krauss: An Origins Project Dialogue, October 2015

University of Helsinki, November 2015

New College of the Humanities, March 2016

Depp and Krauss: An Origins Project Dialogue, March 2016

Wycliffe College, March 2016

DiChristina and Krauss: An Origins Project Dialogue, April 2016

SpaceX, April 2016

Coalition for Excellence in Science and Math Education, June 2016

Political Bodies: Sex, Gender, & Reproductive Rights, September 2016

New College for the Humanities East Coast Lecture, October 2016

Origins Project Conversation: Inconvenient Truths – From Love to Extinction, October

2016

Swedish Humanist Association, October 2017

TIFF Trek Talks, November 2016

New College of the Humanities, December 2016

How to Academy, December 2016

Origins Project Lecture: Materiality of a Vacuum, January 2017

British Humanist Association Darwin Day Lecture, February 2017

Origins Project Great Debate: The Future of Artificial Intelligence – Who’s in

Control?, February 2017

University of Alaska, March 2017

Phoenix Public Library, March 2017

Freethought Society, March 2017

New York Public Library, March 2017

Smithsonian, March 2017

North Carolina State University, March 2017

Triangle Freethought Society, March 2017

North Carolina Museum of Natural Sciences, March 2017

Skeptics Science Salon, March 2017

Center for Inquiry, March 2017

A Science Affair, April 2017

Powell’s City of Book, April 2017

Spirit of the Senses Salon, April 2017

Changing Hands Bookstore, April 2017

Town Hall Seattle, April 2017

Google Kirkland Campus, April 2017

Origins Conversation with Fisher Stevens, April 2017

Origins Conversation with Werner Herzog and Jeffrey Sachs, April 2017

An Evening with Lawrence Krauss - Vancouver, May 2017

An Evening with Lawrence Krauss – Melbourne, May 2017

An Evening with Lawrence Krauss – Canberra, May 2017

An Evening with Lawrence Krauss – Sydney, May 2017

An Evening with Lawrence Krauss & Matt Dillahunty, June 2017

Lawrence Krauss: “The Greatest Story Ever Told – So Far”, June 2017

Lawrence Krauss in conversation with Jim Al-Khalill, July 2017

Origins Project Lecture: Dark Matters with Lawrence Krauss, November 2017

Great Debate: Climate Change, November 2017

A Celebration of Science and Reason – New York City, January 2018

Day of Knowledge, Mexico City, Sept 2018

Day of Knowledge, Aguascalientes, Mexico, Oct 2018

German American Institute, Internatioanl Science Festival, Oct 2018

Devoxx Annual Meeting, Kiev, Ukraine Nov 2018.

(d) *Major Television Productions:*

Dark Matter in the Universe, BBC Antenna 1989

Escape from Earth, Discovery 1995

The Science of Star Trek, BBC and Discovery, 1995

Aliens, Are We Alone, Discovery 1995

Mysteries of the Universe, NOVA 1998

Universe 2001, Discovery and The Learning Channel 1999

Voyage to Mars, The Learning Channel 1999

The Final Frontier, BBC 2000-2001

Discovering the Universe, NHK 2001

How William Shatner Changed the World, Discovery, Mentorn Productions, 2005

Black Holes, Horizon, BBC, 2005

National Geographic “Naked Science:, Space Travel 2005

Discovery Cannel: “The Science of Star Gate”. 2005

The Physics of Space Travel, “Starman”, Pioneer Productions, 2005

National Geographic, ‘Naked Science’, Origin of Structure, 2006

The History Channel, The Big Bang, 2006

Science Channel, The Hawking Paradox, 2006

The History Channel, Modern Marvels Star Trek Tech (Hosted by me), 2007

The History Channel, Beyond the Big Bang, 2007

National Geographic, ‘Naked Science’, The Big Bang, 2008

PBS, “400 Years of the Telescope”, 2008

Naked Science, How to Kill a Planet 2009

Discovery, How to Engineer a Star, 2009

Discovery, The Big Bang, 2009

National Geographic, Black Holes, 2009

BBC, Black Holes, 2009

Discovery, How to Engineer Galaxies, 2010

Discovery, How to Engineer Supernovae, 2010

Catalyst, Australian Broadcasting System, Sept and Oct 2010

National Geographic, Parallel Universes, 2010

How the Universe Works 2010-2017

(e) Music

*Cosmic Reflections*, Libretto for Narrated Symphony, World Premiere, Kennedy Center Nov 2009

Introduction to Haydn’s *The Creation*, ASU Gammage Auditorium April 2015

(f) *Radio and Television Commentary****:***

*The Real Price of Creationism*, February 12, 2004, Marketplace Commentary

*Ideology Spending*, March 24, 2004, Marketplace Commentary

*Visa Battles,* May 25, 2004, Marketplace Commentary

*Another Space Race,* July 29, 2004, Marketplace Commentary

*Scientists Express Concern Over White House Policies* Travis Smiley Show, October 26, 2004

*Debate Over Intelligent Design* Newshour with Jim Lehrer, August 5, 2005

*Evolution and the Catholic Church* Talk of the Nation Science, Friday, August 12, 2005

*Theoretical Science Made Practical* Marketplace Commentary, August 29, 2005

*Hiding in the Mirror: The Mysterious Allure of Extra Dimensions* Talk of the Nation Science Friday, October 21, 2005

*Facing Reality: Public Policy, Science Education, and the Emperor’s New Clothes,* CSPAN presentation of Keynote address at American Enterprise Institute, October 21, 2005

*The Media Report: Bogus History and Pseudoscience,* November 11, 2005

*NPR’s All Things Considered Commentary: In Favor of Barring ID from the Science Classroom, December 20, 2005*

*Australian Radio National Interview with Stephen Crittendon*, August 30, 2006

*In the Eye of the Beholder* Marketplace Commentary, January 30, 2007

*University Presidents, Take Notes,* Marketplace Commentary, April 30, 2007

*Putting Lies and Fraud on Exhibit,* Marketplace Commentary, May 25, 2007

*The OReilly Factor,* Fox Television, debate on Creation Museum, May 28, 2007

*Scientific Illiteracy,* CSPAN, telecast of speech at American Enterprise Inst, February 11, 2008

*Daily Planet, Jan 20, 2009,* interview in Paris following election of Barack Obama

*Physics and the Universe,* Radio New Zealand, interview on issues ranging from the future of the Universe to the Large Hadron Collider

*Big Questions in Cosmology* Talk of the Nation Science Friday, April 3, 2009

*Discovery Channel Daily Planet Interview, May 2009, Science of Star Trek*

*A One-Way Trip to Mars?* Talk of the Nation Science Friday, September 11, 2009

*Exploring Space,* TVO Ontario, Agenda Program, October 20, 2009

*Adjusting the Doomsday Clock* Talk of the Nation Science Friday, January 15, 2010

*The Oil Spill and the Limits of Science* Talk of the Nation Science Friday, June 4, 2010

*The Physics of Star Trek* The Brent Holland Show, July 7, 2010

*Cosmology,* Catalyst, September 16, 2010

*Science and Morality* Talk of the Nation Science Friday, November 5, 2010

*SKA,* Catalyst, February 17, 2011

*Richard Feynman is The “Quantum Man”* Talk of the Nation Science Friday,

March 25, 2011

*Where are all the Aliens?,* Catalyst, March 31, 2011

*Discovery of Other Earths*, Catalyst, April 7, 2011

*Connecting Science and Art* Talk of the Nation Science Friday, April 8, 2011

*Biggest Bang,* Catalyst, June 16, 2011

*In a Flash of Gamma-Rays a Star is Gone* Talk of the Nation Science Friday, June 17, 2011

*Parallel Universes,* Catalyst,June 30, 2011

*ABC Australia Canberra Radio AM Greg Bayliss Show*, July 9, 2011

*NATO plan to deploy ABMs in Europe* RT News, December 9, 2011

*Understanding the God Particle: Lawrence Krauss Explains the Higgs Boson,* CBC Radio, December 16, 2011

*Christopher Hitchens* CNN, December 20, 2011

*A Universe from Nothing* Talk of the Nation Science Friday, January 13, 2012

*Coast to Coast,* January 14, 2012

*Talk Radio Europe,* January 19, 2012

*Quirks and Quarks*, The CBC*,* January 21, 2012

*A Universe from Nothing* Studio 4 with Fanny Kiefer, February 21, 2012

*Reason Rally “Question Silly Beliefs”* The Alyona Show, March 27, 2012

*Big Bang Could End with a Whimper* TV New Zealand, May 10, 2012

***Why there is Something rather than Nothing* Equal Time for Free Thought June 2, 2012**

*The Colbert Report,* June 21, 2012

*Hunting for Life in Other Worlds* CNN, August 12, 2012

*Science vs. Religion* CNN, September 23, 2012

*Fox with John Stossel,* December 13, 2012

*Real Time with Bill Maher,* February 8, 2013

*Anderson Cooper 360,* February 15, 2013

*ABC Australia Q&A,* February 18, 2013

*Gripping Science Tales Need not be Science Fiction* Talk of the Nation Science Friday, March 29, 2013

*The Morning Show, Global News Canada* April 29, 2013

*The Agenda with Steve Paikin,* April 30, 2013

*ABC Conversations with Richard Fidler,* May 23, 2013

*ABC Australia Q&A,* May 27, 2013

*Adam Hills Tonight,* June 12, 2013

*ABC Australia,* June 29, 2013

*The Agenda with Steve Paikin,* July 3, 2013

*The Agenda with Steve Paikin,* July 4, 2013

*The Hour with George Stroumboulopoulos,* July 9, 2013

*Custom Universe*, Catalyst, August 29, 2013

*Skeptic Fence* Podcast, November 23, 2013

*Equal Time for Free Thought,* November 30, 2013

*Detecting the “Bang” from the Big Bang,* Talk of the Nation Science Friday, March 21, 2014

*ABC TV Q&A,* June 2, 2014

*The Agenda with Steve Paikin,* June 17, 2014

*Larry King Now,* August 11, 2014

*Michael Feldman’s Whad’ya Know?,* February 2015

*The Weekly with Charlie Pickering,* April 2015

*ABC 7:30,* June 29, 2015

*ABC TV Q&A*, June 29, 2015

*The Weekly with Charlie Pickering,* July 1, 2015

*Science of Sci Fi Films – fact or fiction*?, Catalyst*,* March 1, 2016

*The Agenda with Steve Paikin,* March 2016

*Did Christopher Hitchens flirt with faith?,* BBC Newsnight, May 20, 2016

*Is Religion to Blame for Violence,* Al Jazeera, July 16, 2016

*The Life Scientific*, BBC Radio, May 31, 2016

*Why Are We Here? Physics Has Answers* Talk of the Nation Science Friday, March 17, 2017

*The David Pakman Show,* March 22, 2017

*The Joe Rogan Experience,* March 27, 2017

*Waking Up with Sam Harris,* April 10, 2017

*Hard Chat: Lawrence Krauss,* May 17, 2017

*ABC TV Q&A,* May 22, 2017

*The Weekly with Charlie Pickering*, May 2017

*Arizona Horizon: Science Matters,* Monthly, 2012-

(g) Film

Documentary: The Unbelievers (2013)

Salt and Fire (2016)

Lo and Behold, Reveries of the Connected World (2016)

The Farthest (2017)

***Major Research Areas and Activities:***

Theoretical Particle Astrophysics and Cosmology, including studies of the early universe, neutrino astrophysics, dark matter, dark energy, quantum field theory and General Relativity, gravitational waves, cosmic microwave background, black holes, stellar evolution, nucleosynthesis, eschatology.

Science and Society/Public Policy: Science Education, Science Writing, Public School Science Curricula, Science and Religion, Scientific Integrity in Government, Missile Defense, Nuclear Proliferation, Science and Pseudoscience

***Related Professional Activities***

1. *Science Education*:

I have maintained a strong interest in science education at all levels, and had extensive teaching experience-from a university level to lectures for the general public. While still a student I worked with the Ontario Science Center, giving public demonstrations, and training staff there. At M.I.T. I ran a live phone-in T.V. program on physics for undergraduates, and was nominated for a teaching award for instruction during a semester in which I received the highest teaching evaluation score in the undergraduate course guide. During that time I also taught a one-semester science course in the Cambridge public school system. At Yale, I taught courses ranging from a general physics course for non-scientists, to advanced graduate courses in particle physics, and in cosmology. I also served for two years on the Yale Course of Study committee, where I played a major role in revising the science requirements for undergraduates. In 1991 I was named a Sigma Xi National Lecturer, and visited campuses and industries around the country for two years giving public lectures. I also directed a 3-day seminar for the Association of Yale Alumni entitled The Legacy of Newton. In 2006 I was named a Phi Beta Kappa National Visiting Scholar, to be lecturing to Phi Beta Kappa Chapters around the country.

At CWRU I sponsored and/or organized outreach programs as well as lecturing to high school and public school students and teachers throughout Northeast Ohio, including visiting schools to lecture or talk to students about science, and participated in programs such as the Young Scholars Program, Science Olympiad, and served on the Executive Committee of the Board or Trustees of the Cleveland School for the Arts, where I initiated a science committee that still exists to enrich the science program at the school. In the physics department itself I supervised the overhauling of the undergraduate and graduate physics curricula, the establishment of new undergraduate laboratories, the creation of six new undergraduate major tracks, and one new graduate degree program, and the creation of a new public lecture series. I also brought together a group of faculty from science and the humanities to help establish the form the new Seminar Approach to General Education curriculum at Case.

I was involved in the preparation of a national curriculum on cosmology for high school teachers sponsored by the American Association of Physics Teachers, and presented a series of workshops for teachers based on a teaching manual I wrote. In 1999 I served as an outside adviser to MIT for their new program aimed at introducing writing and communication aspects across their science curriculum. I have also given presentations on teaching science at the National Teacher Training Institute, and at regional teachers meetings, and at the APS-AAPT national meeting in Columbus. I presented the opening lecture at the American Association of Physics Teachers meeting in San Antonio in 1999, and a Shell Lecture at the 2001 National Association of Science Teachers Conference in St. Louis.

In 2004, I was awarded the Oersted Medal by the AAPT, its highest recognition for teaching. I have also served on the executive committee of the board of trustees of the Great Lakes Science Center, the Board of the Cleveland Museum of Natural History, and the Board of the new Science Fiction Experience Museum in Seattle.

As various groups attempted to impede the teaching of evolution in public schools I quickly took a leadership role in combatting this effort. I helped lead the effort in Ohio during the period 2002-2006 to fight back an effort to alter the science standards and curricula in the public schools and spoke out in states such as Kansas and Colorado on this issue, as well as advising lawyers in Dover Pennsylvania during the trial there. In March 2002 I testified in a public presentation before the Ohio Board of Education on Science Standards for High School Science Classes in Ohio, beginning what became a national effort to defend the teaching of Evolution in high schools. In 2006 I created the organization Help Ohio Public Education, which recruited pro-science candidates for State School Board elections. All of our candidates were successfully elected.

3. *Science, Society, and Public Policy:*

My activism on issues of science and society began when I was still a student, when I served as an organizer and lecturer in California for the Union of Concerned Scientists Convocation against Nuclear War in 1981, and Regional Coordinator for the International Physicists Petition for a Nuclear Freeze. In 1987-88 I was a regional co-ordinator for the FAS Congressional Exchange Program, and then began writing and lecturing on issues associated with National Missile Defense. I served on the American Physical Society Panel on Public Affairs for two years. In February 2004, I was among a group of 62 prominent scientists that wrote a public statement regarding Scientific Integrity in Washington. I was on the Board of Scientists and Engineers for America, and the Board of Ohio Citizens for Science, and was Chair of the American Physical Society Forum on Physics and Society, Chair of the Physics Division of the American Association for the Advancement of Science. In 2008 I co-founded *ScienceDebate2008*, which has worked with and coordinated over 100 major science organizations to call for a Presidential Debate on issues of Science and Technology Policy, and following that, served on Barack Obama’s Science Policy committee during the Presidential Campaign. In 2009 I was named Co-Chair of the Bulletin’s Board of Sponsors and began embarking on a new set of activities designed to reduce the threat of nuclear war. During my tenure as Co-Chair, and then as Chair from 2015- 2018, the Bulletin has broadest its areas of interest, to include global climate change, biotechnology and other emerging technologies, and also AI and cyberterrorism.

I regularly write on science and policy issues for newspapers and magazines, incluindg in such newspapers the New York Times, L.A. Times, the International New York Times, The Wall St. Journal, The Washington Post, and The Chronicle of Higher Education, as well as magazines including The New Yorker, Scientific American, Wired, Nautilus, New Scientist, Discover, Seed, and TV Guide. I have been a commentator for both Public Radio International, and National Public Radio, with commentaries airing on both Marketplace, and Morning Edition. I have also appeared on national television news programs, including CNN, PBS, ABC News, and Fox News, The Colbert Report, and Real Time With Bill Maher.

4. *Popular Science books and films*:

The popular science book I wrote in 1989 was named an Astronomy Book of the Year by the Astronomical Society of the Pacific (1990) and was been translated into 4 languages. My next book appeared in 1993, was named among the “best books of the year” by Library Journal, and was translated in 12 languages. My next book, *The Physics of Star Trek* became an international bestseller and appeared simultaneously in audio tape format in 1995, and was translated into twenty foreign languages, and sold over 250,000 copies in the US alone. My sixth book. Atom, appeared in April of 2001 and was awarded the American Institute of Physics Science Writing award. My book Quantum Man: Richard Feynman’s Life in Science, was named Book of the year 2011 by Physics World. My next book, *A Universe from Nothing* was an immediate New York Times bestseller, and has been translated into 25 languages. My most recent book *The Greatest Story Ever Told... So Far: Why are we here?* just appeared, in March of 2017. Most recently I have been involved in producing appearing in film feature documentaries and theatrical films, including a film that followed myself and Richard Dawkins around the world, entitled *The Unbelievers,* the television series, *How the Universe Works*, and most recently a film about the Voyager spacecraft entitled *The Farthest*.

5. *Educational and Administrative Leadership*:

**CWRU: 1993-2008**

In 1993, I moved to Case Western Reserve University to become Chairman of the Physics Department in order to oversee a major revitalization of the department and its facilities, and also to help in launching the new College of Arts and Sciences. During the twelve years of my Chairmanship, we completed a six million dollar renovation of the Physics research and teaching facilities, hired nine outstanding new faculty, created a new nationally recognized research group in particle astrophysics with a strong theoretical group and new experimental programs ranging from dark matter detection to high energy gamma ray astrophysics, overhauled the undergraduate and graduate curricula, tripled the size of the sophomore class of physics majors the make it the largest group per capita of any leading research university in the country), built and outfitted a new set of introductory physics laboratories which serviced over 600 undergraduates per year, created a new Engineering Physics major, a new Bachelor of Arts in Physics degree, a new BS in Mathematics and Physics, a new BS Physics degree with a concentration in Biophysics, and created two new prominent public lecture series. We also developed an exciting new Masters Program in Physics Entrepreneurship, which was used by the American Physical Society as a new model for graduate education in physics at a national level. I raised 1.5 Million dollars to initiate this program. Finally we created a new Center for Education and Research in Cosmology and Astrophysics at the University, in coordination with the Cleveland Museum of Natural History. The inaugural event sponsored by CERCA, and funded in part by the Kavli Foundation, was a conference on the Future of Cosmology, the first such conference sponsored by Kavli, creating a new conference series for them.

During my tenure as chair, the departmental college-funded operating budget increased by $300,000 to over $1 million/yr, and we obtained in excess of 5 million dollars in sponsored research funds per year, and I raised over $8 million in privately funded endowments from outside donors. The sponsored external research funding for the department tripled during my tenure as chair. According to a national ranking of Ph. D. programs in Physics when I left, the department ranked 16th in the country, up from 108th before I became Chair.

At the College level I was heavily involved in various College and University projects, including fundraising, planning, and curricular issues. I took a leadership role in visiting donors, lecturing to alumni groups, and preparing proposals for foundation support. I served on the President’s committee overseeing a year-long self-study in 1995 associated with the successful re-accreditation of CWRU, focusing on different areas of University activity, including electronic learning, undergraduate education, research, and continuing education. I played a key role in helping shape the form of a new Seminar Approach to General Education that was instituted in 2005 for all undergraduates at CWRU. During the period 2005-7, I took a variety of different roles at the University, including helping to plan for the new West Quad Research Complex for the Medical School, Chairing an external Strategic Planning committee for the Dept. of Chemistry, and Chairing the Advisory Committee on Research Computing for the VP for Information Technology Services, and served on the University Stakeholders committee, appointed by the President to raise the University’s profile locally and nationally.

Based on my interests in expanding the research profile of the University, I was asked to Chair a President’s Commission on Graduate Education and Research, which examined ways to alter the University administrative structure and fundraising priorities in order to enhance the research and graduate education at CWRU. This commission produced a report in April of 2004, and on that basis, a new Research Council was established.

**ASU: 2008-2019**

In 2008, I moved to Arizona State University to direct a new University-wide Origins Project at ASU which has since become a nationally recognized center for sponsored meetings, education, and outreach on issues associated with Origins, including the origins of the universe, planetary origins, the origin of life, human origins, and origins of cognition, etc. The project began with of which was a major Origins Symposium held April 3-6, 2009, attended by over 80 major scientists and scholars from a host of fields around the world and 8 Nobel Laureates. Our inaugural public event involved 12 hours of lectures and panels and was attended by over 6000 members of the public, as well as being broadcast live on the web (see www.origins.asu.edu). One of the highlights involved an afternoon forum for students from 20 inner city high schools.

Since its inauguration, the Origins Project achieved international prominence, hosting over 20 workshops on forefront issues with major scientists and scholars in a variety of fields, leading to white papers on Climate Change, a new research program in human origins, and a new concerted program on the implications of research in Artificial Intelligence. We have cosponsored events with groups ranging from the National Institutes of Health to the Sydney Opera House. Our public events regularly attract up to 3000 members of the public, and up to 2,000,000 people have viewed them online afterwards. Audience members have flown in from Japan, South America, and Canada, as well as across the country to listen to scholarly panels on issues ranging from the Origins of Morality, to the Nature of Gravity as well as dialogues with leading public intellectuals and including Noam Chomsky, Peter Singer, Alan Alda, Jeffrey Sachs, Frank Wilczek, and Johnny Depp. We have sponsored events that merge science and popular culture, including screening of major films by directors such as Werner Herzog, commissioning a dance program by Liz Lehrman entitled A Matter of Origins, and a performance of Holst’s *The Planets* with the University Orchestra, followed by a public lecture by Stephen Hawking.

In addition to its scientific and outreach missions, the Origins Project also developed an educational portal, in which we compile and curate material from our workshops in an online format that is accessible by teachers, students and members of the general public. We have established three different undergraduate research scholarships and raised funds to establish the largest postdoctoral prize in the world, awarded annually to a postdoctoral research from any field of origins from around the world, who travels to the University and presents a series of lectures.

In order to develop and support the program I \raised over 3 million dollars in external funding as well as controlling a similar amount in University funding, with which I have hired and managed a staff of seven people including an Executive Director, Associated director, program manager, office manager, web designer, graphic designer and office assistant, as well as numerous interns and volunteers. We established an external advisory committee that includes major scientists, business leaders, and thought leaders from around the world, including 5 Nobel Laureates, the head of research at Microsoft, and the past president of the Royal Society.

The program has also been successful in bringing major figures to the University. Besides Visiting Origins Professors, who have included Ian McEwan, Peter Singer, Richard Dawkins, among others, two of our past visiting professors, Sidney Altman and Frank Wilczek, both Nobel Laureates, have joined the University as faculty.

In addition to my leadership of the Origins Project, I joined the University with a mandate to build a new Cosmology Initiative at the University. As part of this initiative, we hired 7 new faculty, and have a flourishing program that has brought in over 2 million/yr in external research funding to the University from the DOE, NSF, and NASA, among other agencies, as well as training over a dozen postdocs and a larger number of graduate students thus far.

6. *History Research*

While in my late teens and early 20’s I pursued a research interest in Canadian History, including devoting one full year doing primary research at the Public Archives of Canada, Ontario, and a variety of private collections. During that time I was granted access to a variety of restricted materials from the files of the Attorney General of Ontario, to be used for a book on the social history of the depression in Canada. Also during this period I helped edit a book on the Hutterites in Canada.

*7. Acting and Producing:* Beginning in 2013, I began a new set of activities, involving producing, and sometimes appearing, in feature films, both documentary, and fiction. These have included, *The Unbelievers*, in which I appeared as well as producing, *Salt and Fire*, and *Lo and Behold*, in which I appeared, both directed by Werner Herzog, *The Farthest*, in which I appeared, and which won an Emmy for best Documentary Film, *Intersect*, as executive producer, in production in 2018, *Beautiful Dark*, as exec producer, in pre-production, and *Vestige*, in which I appear, in pre production