

TAB D

ROBERT SAMUEL LANGER

Curriculum Vitae

DATE & PLACE OF BIRTH August 29, 1948, Albany, New York

EDUCATION

1974 Sc.D., Chemical Engineering, MIT

1970 B.S. (with distinction) Chemical Engineering, Cornell University

AWARDS

- 2015 Queen Elizabeth Prize for Engineering
- 2015 Scheele Award (Swedish Pharmaceutical Society)
- 2015 Honorary Degree, Hanyang University (South Korea)
- 2015 Honorary Degree, University of New South Wales (Australia)
- 2014 Kyoto Prize in Advanced Technology
- 2014 Breakthrough Prize in Life Sciences
- 2014 Biotechnology Heritage Award (Chemical Heritage Foundation)
- 2014 Chemical Pioneer Award (American Institute of Chemists)
- 2014 Honorary Degree, Drexel University
- 2014 Honorary Degree, University of Western Ontario (Canada)
- 2014 ETH Zurich Chemical Engineering Medal
- 2014 Elected a Foreign Corresponding Member of the Austrian Academy of Sciences
- 2014 Mack Memorial Award (Ohio State University)
- 2013 Wolf Prize in Chemistry
- 2013 United States National Medal of Technology and Innovation (for 2011)
- 2013 RUSNANOPRIZE International Prize in Nanotechnology
- 2013 Fellow, American Association for the Advancement of Science
- 2013 Distinguished Investigator Award (American College of Clinical Pharmacology)
- 2013 Honorary Fellow Award (American College of Clinical Pharmacology)
- 2013 Honorary Degree (Boston University)
- 2013 Honorary Degree (Tel Aviv University)
- 2013 Honorary Degree (Ben Gurion University)
- 2013 Julio Palmaz Award for Innovation in Healthcare and the Biosciences (BioMed SA)
- 2013 Industrial Research Institute Medal
- 2013 IEEE Medal for Innovations in Healthcare Technology
- 2013 Founders Award (Society of Biomaterials)
- 2013 MDEA Lifetime Achievement Award
- 2012 Scientist of the Year (R&D Magazine)
- 2012 Elected to National Academy of Inventors (Charter Fellow)
- 2012 Priestley Medal (American Chemical Society)
- 2012 Perkin Medal (Chemical Heritage Foundation)
- 2012 Terumo International Prize (Japan)
- 2012 Wilhelm Exner Medal (Austria)
- 2012 Fellow, American Institute of Chemical Engineers
- 2012 Feodor Lynen Award (Nature Biotechnology)
- 2011 Economist Innovation Award for Bioscience
- 2011 Warren Alpert Foundation Prize (Warren Alpert Foundation/Harvard Medical School)
- 2011 Walker Prize (Boston Museum of Science)
- 2011 Apple Award (American Spinal Injury Association/Shepherd Center/Thomas Land Publishers Inc.)
- 2011 Honorary Degree (Bates College)
- 2011 Frontier of Science Award (Society of Cosmetic Chemists)
- 2011 Fellow (American Chemical Society)
- 2010 Elected International Fellow (Royal Academy of Engineering)

2010 Honorary Degree (Rensselaer Polytechnic Institute)
2010 Honorary Degree (Willamette University)
2010 Robert Fletcher Award (Thayer School of Engineering, Dartmouth College)
2010 EMBS Academic Career Achievement Award (IEEE Engineering in Medicine and Biology Society)
2010 Elected to the Controlled Release Society College of Fellows
2010 Founding POLY Fellow (Division of Polymer Chemistry, American Chemical Society)
2009 Honorary Degree (Harvard University)
2009 University of California at San Francisco (UCSF) Medal
2009 Honorary Degree (Mount Sinai School of Medicine)
2009 Distinguished Chemist Award (New England Institute of Chemists)
2009 Biomedical Research Leaders Award (Massachusetts Society for Medical Research)
2008 Millennium Technology Prize
2008 Max Planck Research Award
2008 Prince of Asturias Award for Technical and Scientific Research
2008 Elected Foreign Academic Member (Royal Academy of Pharmacy of Spain)
2008 Founders Award (American Institute for Chemical Engineers)
2008 Innovation in Health and Technology Award (Boston History and Innovation Collaborative)
2008 Acta Biomaterialia Gold Medal (Acta Materialia)
2008 Named one of the 100 Top Chemical Engineers of the 20th Century (AIChE)
2007 United States National Medal of Science (for 2006)
2007 Chemistry of Materials Award (American Chemical Society)
2007 Herman F. Mark Award (American Chemical Society, Polymer Chemistry Division)
2007 Honorary Doctorate (Yale University)
2007 Wenig Memorial Award for Outstanding Achievement in Drug Delivery
2007 First Prize of Scientific Award (BMW Group)
2007 Elected to the Biotechnology Hall of Fame
2006 Elected to the National Inventors Hall of Fame
2006 Honorary Doctorate (Northwestern University)
2006 Honorary Doctorate/Commencement Address (Albany Medical College)
2006 Bailey Award (American Institute of Chemical Engineers)
2005 Von Hippel Award (Materials Research Society)
2005 Albany Medical Center Prize in Medicine and Biomedical Research
2005 Dan David Prize (Materials Science)
2005 Honorary Doctorate (Uppsala University)
2005 Honorary Doctorate/Commencement Address (Pennsylvania State University)
2005 Honorary Doctorate (University of Nottingham)
2005 Lifetime Achievement Award (Society for *In Vitro* Biology)
2005 Rainer Hoffmann Product through Science Award (Controlled Release Society)
2005 Technology Innovation and Development Award (Society of Biomaterials)
2005 Washington Award (Western Society of Engineers)
2004 Charles F. Kettering Prize (General Motors Cancer Research Foundation)
2004 Nelson Taylor Award (Pennsylvania State University)
2003 Heinz Award for Technology, Economy and Employment
2003 Harvey Prize in Science and Technology and Human Health
2003 John Fritz Medal (American Association of Engineering Societies)
2003 Elected to the Academy of Achievement (Golden Plate Award)
2003 Honorary Doctorate (University of Liverpool, England)
2002 Dickson Prize for Science (Carnegie Mellon University)
2002 Charles Stark Draper Award (National Academy of Engineering)
2002 Othmer Gold Medal (Chemical Heritage Foundation)
2002 Nagai Innovation Award (Controlled Release Society)
2002 Honorary Doctorate (Hebrew University of Jerusalem)
2002 Herman Schwan Award (University of Pennsylvania)
2001 Harrison Howe Award (American Chemical Society)

2000 Honorary Doctorate (The Catholic University of Louvain, Belgium)
2000 Glaxo Wellcome International Achievement Award (Royal Pharmaceutical Society of Great Britain)
2000 Millennial Pharmaceutical Scientist Award (Millennial World Congress of Pharmaceutical Sciences)
2000 First Pierre Galletti Award (American Institute of Medicine & Biological Engineering)
2000 Wallace Carothers Award (American Chemical Society, Delaware Section)
1999 American Chemical Society Award in Polymer Chemistry
1999 Esselen Award (American Chemical Society, Northeast Section)
1999 Ebert Prize (American Pharmaceutical Association)
1999 G.N. Lewis Medal (University of California at Berkeley)
1998 Outstanding Pharmaceutical Paper Award (Controlled Release Society)
1998 Lemelson-MIT Prize for Invention and Innovation
1998 The Nagai Foundation Tokyo International Prize
1997 Killian Faculty Achievement Award (MIT)
1997 Wiley Medal (U.S. Food and Drug Administration)
1997 Honorary Doctorate (The Technion - Israel)
1996 Gairdner Foundation International Award
1996 Honorary Doctorate (Eidgenossische Technische Hochschule-ETH, Switzerland)
1996 William Walker Award (American Institute of Chemical Engineers)
1996 Society of Plastics Engineers International Award
1996 Ebert Prize (American Pharmaceutical Association)
1996 Elected a Fellow of Biomaterials Science and Engineering
1996 Avis Distinguished Visiting Professor (University of Tennessee)
1995 International John W. Hyatt Service to Mankind Award (Society of Plastics Engineers)
1995 Ebert Prize (American Pharmaceutical Association)
1995 Elected a Fellow (American Association of Pharmaceutical Scientists)
1995 PEL Associates Award (PEL Associates, Groton, Connecticut)
1994 Elected to the American Academy of Arts and Sciences
1994 Elected a Fellow, Society of Biomaterials
1993 Distinguished Pharmac. Scientist Award (Highest Honor of the Amer. Assoc. of Pharm. Scient.)
1992 Elected to the National Academy of Sciences
1992 Elected to the National Academy of Engineering
1992 American Chemical Society Award for Applied Polymer Science (Phillips Award)
1992 Elected a Founding Fellow, American Institute of Medical and Biological Engineering
1992 Outstanding Pharmaceutical Paper Award (Controlled Release Society)
1992 Perlman Memorial Award (American Chemical Society, Biochemical Technology Division)
1991 Organon Teknika Award (European Society for Artificial Organs)
1991 Charles M.A. Stine Award in Materials Science and Eng. (American Institute of Chemical Engineers)
1990 Professional Progress Award (American Institute of Chemical Engineers)
1990 Clemson Award for Basic Research (Society for Biomaterials)
1990 Outstanding Pharmaceutical Paper Award (Controlled Release Society)
1989 Elected to the Institute of Medicine of the National Academy of Sciences
1989 Creative Polymer Chemistry Award (American Chemical Society, Polymer Division)
1989 Outstanding patent in Massachusetts and one of the twenty outstanding patents in the U.S. (Intellectual Property Owners, Inc.)
1989 Founders Award for Outstanding Research (Controlled Release Society)
1988 Elected to the Gordon Conference Research Council
1988 Elected Chairman, Gordon Conference on Drug Carriers in Biology and Medicine
1986 Food, Pharmaceutical and Bioengineering Award (American Institute of Chemical Engineers)
1983 Outstanding Paper, Institute of Electrical and Electronic Engineering
1982 Paper Listed as One of the Outstanding Papers of the Year, CHEMTECH
1982 Recipient of the first Dorothy W. Poitras Chair, MIT
1982 Outstanding Teacher Award, MIT Graduate Student Council

NAMED LECTURES

2015 Ørsted Lecturer (University of Copenhagen)
2015 Eli Ruckenstein Lecturer (University at Buffalo, State University of New York)
2015 Lerner Lecturer (Cleveland Clinic)
2015 Barre Lecturer (University of Montreal)
2015 Amundson Lecturer (University of Houston)
2015 Irving Shain Lecturer (University of Wisconsin – Madison)
2014 Lindahl Lecturer (Napa Pain Institute)
2014 Pittcon Lecturer/Analytical Seminar Series (University of Pittsburgh)
2014 Novartis/Drug Discovery Institute Lecturer (University of California – San Diego)
2014 Commencement Address (University of Western Ontario)
2014 Commencement Address (Drexel University)
2014 Darsh Wasan Lecturer (Illinois Institute of Technology)
2014 52nd Robbins Lecture Series Lecturer (Pomona College)
2014 George S. Hammond Lecturer (Bates College)
2014 Edward Mack, J. Memorial Award Lecturer (Ohio State University)
2013 Axalta Lecturer (University of Pennsylvania)
2013 Inaugural Thomas H. Chilton Lecturer (DuPont Central Research and Development)
2013 BC² Annual Lecturer (Wellesley College)
2013 Warren L. McCabe Lecturer (North Carolina State University)
2013 Commencement Address (Boston University School of Engineering)
2013 Lucas Lecturer (Colorado School of Mines)
2013 Reed Izatt and James Christensen Lecturer (Brigham Young University)
2013 Prof. Dame Julia Polak Inaugural Lecturer (Imperial College)
2012 Gladstone Distinguished Lecturer (Gladstone Institutes/University of California-San Francisco)
2012 Eliahu Caspi Memorial Lecturer (University of Massachusetts Medical School)
2012 Kavli Foundation Innovation in Chemistry Lecturer (American Chemical Society)
2011 Commencement Address (Johns Hopkins Business School)
2011 Commencement Address (University of California Berkeley School of Chemistry)
2011 Commencement Address (Bates College)
2011 Class Day Speech (EPFL, Switzerland)
2011 Kroc Lectureship (Joslin Diabetes Center)
2011 Knight Lectureships (University of Akron)
2011 Bullard Lectureship (Uniformed Services University)
2011 Dean's Lecturer (University of Maryland)
2010 Herman S. Bloch Memorial Lecture (University of Chicago)
2010 Investiture Lecturer (Thayer School of Engineering, Dartmouth College)
2010 Judah M. Folkman Lecturer (Children's Hospital, Boston)
2010 Allan S. Hoffman Lecturer (University of Washington)
2010 Storer Life Sciences Lecturer (University of California, Davis)
2010 Dohlman Visiting Professorship Lecturer (Massachusetts Eye and Ear Institute)
2009 Cecil Brown Lecturer (American Chemical Society)
2009 Melvin L. Samuels Lecturer (University of Texas MD Anderson Cancer Center)
2008 Isadore Rosenberg Lecturer (Metrowest Medical Center)
2008 Invitrogen Lecturer (University of California, San Diego)
2008 Rohm and Hass Lecturer (University of California Berkeley)
2007 Findling Lecturer (Mayo Clinic)
2007 W.M. Keck Distinguished Lecturer (Lehigh University)
2007 Alexander Rich Lecturer (Massachusetts Institute of Technology)
2007 William Shucart Lecturer (Tufts University)
2007 Ford Lecturer (Case Western University)
2006 Commencement Address (Albany Medical College)
2006 Distinguished Lecturer (University of Pennsylvania School of Medicine)
2006 Weiss Lecturer (Northeastern University)

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