

ROBERT HOWARD GRUBBS

Division of Chemistry and Chemical Engineering, 164-30,
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<http://grubbsgroup.caltech.edu/>

EDUCATION

- 1963 B.S., Chemistry, University of Florida, Gainesville, FL
1965 M.S., Chemistry, University of Florida, Gainesville, FL (M. A. Battiste)
1968 Ph.D., Chemistry, Columbia University, New York, NY (R. Breslow)

PROFESSIONAL

- 1968-1969 NIH Postdoctoral Fellow, Stanford University, Stanford, CA (R. Colman)
1969-1973 Assistant Professor, Michigan State University, East Lansing, MI
1973-1978 Associate Professor, Michigan State University, East Lansing, MI
1978-1990 Professor of Chemistry, California Institute of Technology, Pasadena, CA
1990-present Victor and Elizabeth Atkins Professor of Chemistry, Caltech, Pasadena, CA

FELLOWSHIPS AND AWARDS

Academies

- 1965 American Chemical Society
1989 National Academy of Sciences
1994 Fellow of the American Academy of Arts & Sciences
1999 Honorary Membership to Royal Irish Academy in the Section of Science
2004 Fellows of the Royal Society of Chemistry (FRSC)
2009 Admitted to Polish Academy of Sciences
2014 Fellow of National Academy of Inventors (FNAI)
2015 National Academy of Engineering of the National Academies
2015 Foreign Membership of Chinese Academy of Sciences

International Awards

- 1997 The Nagoya Medal of Organic Chemistry
1998 Fluka Prize - Reagent of the Year 1998
2000 Benjamin Franklin Medal in Chemistry (The Franklin Institute)
2005 Nobel Prize in Chemistry for 2005, Royal Swedish Academy of Sciences
2005 August-Wilhelm-von-Hofmann-Denkünze, German Chemical Society
2014 Giulio Natta Award 2014 for Chemistry

American Chemical Society Awards

National

- 1988 ACS National Award in Organometallic Chemistry
1990 Arthur C. Cope Scholar Award (ACS)
1995 ACS Award in Polymer Chemistry (Mobil Chemical Company)
2000 ACS Herman F. Mark Polymer Chemistry Award (Dow Chemical Co. Foundation)
2001 ACS Herbert C. Brown Award for Creative Research in Synthetic Methods (Aldrich Chemical Co. & The Purdue Borane Research Fund)
2002 Arthur C. Cope Award (ACS Division of Organic Chemistry)
2003 ACS Award for Creative Research in Homogenous or Heterogeneous Catalysis (Shell Oil Foundation)
2009 ACS Award for Creative Invention
2011 ACS Roger Adams Award in Organic Chemistry
2017 ACS Olah Award in Petroleum Chemistry

Regional

- 2003 The Richard C. Tolman Medal (Southern California Section ACS)
- 2003 Pauling Award Medal (Oregon, Portland, Puget Sound Sections of ACS)

Honorary Degrees

- 2006 Honorary Degree of Doctor of Science, Michigan State University
- 2006 Doctor of Science, *honoris causa*, University of Florida at Gainesville
- 2007 Honorary Degree, University of Crete, Greece
- 2007 Honorary Degree, Georgia Institute of Technology, Atlanta, GA
- 2008 Honorary Degree of DSc from University of Warwick, Coventry, UK
- 2009 Doctor Honoris Causa, Poznan Adam Mickiewicz University
- 2012 Honors Causa Doctorate, Univerdidad de Huelva, Spain
- 2013 Honorary Doctorate (Dr.rer.nat.h.c.) RWTH Aachen University
- 2016 Doctor Honoris Causa – Universitatea Politehnica din Bucuresti
- 2017 Doctor Honoris Causa- Institute of Chemical Technology, Mumbai, India

Honorary Professorships

- 2001 Honorary Professor of the Shanghai Institute of Organic Chemistry
Chinese Academy of Sciences
- 2007 University of Canterbury's 2nd Canterbury Distinguished Professor
- 2007 Distinguished Fellow, Ewha Academy for Advanced Studies, Ewha Women's University
- 2014 Einstein Professorship of the Chinese Academy of Sciences
- 2017 Honorary Professorship at Tianjin University, China

Other Awards (selected)

- 1966 National Institutes of Health Trainee
- 1968 National Institutes of Health Postdoctoral Fellow
- 1974 Alfred P. Sloan Fellow
- 1975 The Camille and Henry Dreyfus Teacher-Scholar Award
- 1975 Alexander von Humboldt Fellowship
- 2004 Bristol-Myers Squibb Distinguished Achievement Award in Organic Synthesis
- 2005 The Kirkwood Medal, New Haven Section of the American Chemical Society
- 2005 Paul Karrer Gold Medallion, *Kuratorium der Stiftung für die Paul Karrer-Vorlesung*, University of Zurich
- 2006 Honorary Fellowship of the Royal Society of Chemistry
- 2006 Honorable Order of Kentucky Colonels
- 2006 Havinga Medal 2006, Leiden University, The Netherlands
- 2006 Golden Plate Award, Academy of Achievement
- 2006 Tetrahedron Most Cited Paper 2003-2006 Award ("Olefin Metathesis")
- 2007 UCD Ulysses Medal, University College Dublin, Ireland
- 2008 Shri. Dhirubhai Ambani Innovation Award 2007, UICT Alumni Association, India
- 2009 Fellows of the American Chemical Society
- 2010 ACS Polymer Division Fellow (Founding POLY Fellow)
- 2010 Gold Medal of the American Institute of Chemists, Chemical Heritage Foundation
- 2012 TAMU at Qatar Visiting Adjunct Professor
- 2013 Japan Society for the Promotion of Science Invitation Fellowship Program of Research
- 2014 KFUPM Visiting Chair Professor in the Center of Refining & Petrochemicals of the Research Institute
- 2015 Dean's Award for Distinguished Achievement (Columbia University Alumni)

COMPANIES CO-FOUNDED

- 1995-2002 Advanced Polymer Technologies, Munroe, LA (merged with Materia)
1996-2004 Cyrano Sciences, Pasadena, CA (purchased)
1997- Materia, Inc, Pasadena, CA
1997- Calhoun Vision, Pasadena, CA (now RXSight)
2008-2014 Coutour Energy Systems, Pasadena, CA (Closed)
2016- Applaud Medical, San Francisco, CA

COMMITTEES and ADVISORY BOARDS (selected)

- 1987-1989 NIH Medicinal Chemistry Study Section
1989-1991 NIH Metallobiochemistry Study Section
1990-1991 Chair-Elect, ACS Organometallic Subdivision of Division of Inorganic Chemistry
1996-1999 Board on Chemical Sciences and Technology, NRC, National Academy of Sciences
1997- Materia, Inc., Board of Directors and Scientific Advisory Board
1997-2001 Cyrano Sciences, Scientific Advisory Board
1998- Calhoun Vision, Board of Directors and Scientific Advisory Board
2000- 2005 Insert Therapeutics, Scientific Advisory Board
2006- 2010 SuperProtonic, Inc, Technical Advisory Board
2006- 2015 Singapore National Research Foundation, Scientific Advisory Board
2006- Board of Overseers of the Chemical Heritage Foundation
2006- Cleantech Europe Industry Advisory Group
2007-2015 Editorial Advisory Board, *Journal of the American Chemical Society*
2007-2010 Scientific Advisory Board, Novomer, Inc. Catalyzing Green Chemistry
2007- Scientific Council, SiGNa Chemistry
2007- 2017 Reliance Industries Limited Innovation Council, Mumbai, India
2008 Scientific Advisory Board, Emcure Pharmaceuticals Limited, Pune, India
2008 Scientific Advisory Board, THINQ Pharma-CRO Limited, Mumbai, India
2008 External Advisory Board, Georgia Tech School of Chemistry and Biochemistry
2009-2011 ACS Green Chemistry Institute Governing Board
2009-2011 Scientific Advisory Board at the Max Planck Institute for Polymer Research in Mainz
2009-2011 Scientific Advisory Board of Novomer, Inc.
2010- Member of the King Abdullah Petroleum Studies & Research Center (KAPSARC) International Advisory Council
2010-2011 ACS Presidential Task Force on Innovation in the Chemical Enterprise
2010-2012 Advisory Board of NICE (National Institute of Clean Energy, China)
2011-2016 EDBI Pte Ltd Advisory Panel, Singapore
2011 Scientific Advisory Board Aileron Therapeutics, Inc. Cambridge, MA
2011-2015 Keck Science Advisory Board, WM Keck Science Center, Claremont, CA
2011 Board of Directors of the International Solvay Institutes, Brussels
2012-2014 International Advisory Panel for the Wallenberg Foundation Granting System, Sweden
2014 KAUST Scientific Advisory Board of the Catalysis Center (KCC)
2014 Foldax Inc. Scientific Advisory Board
2016 Scientific Advisory Board Applaud Medical

LECTURES (selected)

- 1997 Christensen Visiting Fellowship, St. Catherine's College, Oxford, UK
2000 BP Chemicals Lecturer, University of Ottawa
2001 Max Tishler Prize Lecturer, Harvard University, Cambridge, MA
2001 Rayson Huang Visiting Lectureship in Chemistry, Hong Kong
2001 Prelog-Lecturer, Swiss Federal Institute of Technology Zurich
2001 IV International School on Molecular Catalysis, Keynote Speaker, Poznan – Dymaczewo, Poland

2002 Werner E. Bachmann Memorial Lecturer, University of Michigan, Ann Arbor, MI
2002 Edward Frankland Prize and Lecturer, Royal Society of Chemistry
2003 Priestly Lecturer, Pennsylvania State University, University Park, PA
2003 Ralph Hirschmann Lectures, University of Wisconsin, Madison, WI
2003 Linus Pauling Distinguished Lecturer, Oregon State University, Corvallis, OR
2003 The Gilman Lecture, Iowa State University, Ames, IA
2002 Karabatsos Lecturer, Michigan State University, East Lansing, MI
2003 Tarrant Visiting Professor of Organic Chemistry, University of Florida, Gainesville, FL
2004 Birch Lecturer in the Research School of Chemistry, The Australian National University
2004 Centenary Lecture Tour, Royal Society of Chemistry (UK)
2005 EURO ISMC, Keynote Speaker, Poznan-Rosnowko, Poland
2005 Academy of Sciences, Prague, Czech Republic
2005 Erskine Fellowship, University of Canterbury, New Zealand
2005 Nobel Lectures in Chemistry, Stockholm University, Stockholm, Sweden
2006 Baker Lectureship, Chemistry Department, Cornell University
2006 Lilly Distinguished Lecturer, Emory University
2006 Heck Lecturer, Chemistry and Biochemistry, University of Delaware
2006 Kurt Alder Lecturer, University of Cologne, Germany
2006 Visiting Professor, Chemistry Department, Durham University, United Kingdom
2006 Roche Lecturer, University of Colorado
2006 3M/Ronald A. Mitsch Lecture in Chemistry, Hamline University
2006 Bohlmann-Lecture, Technical University Berlin, Germany
2007 G.M. Kosolapoff Award Lecture, ACS Auburn Section
2007 Berzelius Lectureship, EUROPACAT VIII, Turku, Finland
2008 Basolo Medal Lecture, Northwestern University and Chicago ACS Section
2009 Hirschmann Lectures, Oberlin College, OH
2009 Distinguished Schulich Lectureship Award, Technion-IIT
2009 Sackler Prize in Physical Sciences, Tel-Aviv University
2009 Ewha Academy Nobel Lecture, Ewha Womans University, Seoul, Korea
2010 Honeywell Nobel Laureate Lecture, University of Minnesota
2010 John C. Bailar Lecturer, University of Illinois at Urbana-Champaign
2010 Wynne Jones Memorial Lecture, Newcastle University, UK
2011 G. Stafford Whitby Lecture, The University of Akron
2011 Visiting Erskine Fellowship, University of Canterbury, Christchurch, NZ
2012 F. J. Toole Lecture Series, University of New Brunswick, Fredericton, Canada
2012 Commencement Speaker at KAUST, Jeddah, SA
2014 3rd Grubbs Symposium "Polymer and Green Chemistry", Ningbo University, China
2015 4th Grubbs Symposium "Polymer and Green Chemistry", Ningbo University, China
2015 Hood Fellowship at the University of Auckland, New Zealand
2016 Allcock Lecture, University of Pennsylvania
2016 Kharasch Lecture, University of Chicago
2016 4^{5h} Grubbs Symposium "Polymer and Green Chemistry", Southern University of Science and Technology, Shenzhen, China
2016 Solvay Conference, Brussels
2017 Peiyang Symposium Tianjin China