

ROBERT W. CONN

Distinguished Policy Fellow & Pacific Leadership Fellow
Graduate School of Global Policy and Strategy (GPS)
Dean and W.J. Zable Distinguished Professor of Applied Physics, Emeritus
Irwin and Joan Jacobs School of Engineering
University of California, San Diego
President and CEO, Retired. **The Kavli Foundation**

Degrees, Honors and Awards

1964 B.S. Pratt Institute (Chemical Engineering, Minors in Mathematics and Physics)
1965 M.S. California Institute of Technology (Mechanical Engineering)
1968 Ph.D. California Institute of Technology (Engineering Science)
1979 Outstanding Research Achievement Award, American Nuclear Society
1982 Elected Fellow, American Physical Society
1982 Elected Fellow, American Nuclear Society
1982 Curtis W. McGraw Research Award, American Association of Engineering Education
1982 Certificate of Appreciation, U.S. Department of Energy, Secretary of Energy
1984 Ernest O. Lawrence Memorial Award, U.S. Dept. of Energy (on behalf of the President)
1985 Best Paper Award, American Nuclear Society (with W. W. Wiffen)
1987 Elected Member, National Academy of Engineering
1992 Fusion Power Associates Leadership Award
1994 Distinguished Associate Award, U.S. Department of Energy, Secretary of Energy
1997 Distinguished Engineering Educator Award, Engineering Societies of San Diego
1998 Outstanding Leadership Award, Corporate Affiliates Program, U.C. San Diego
1998 Distinguished Alumni of the Year, California Institute of Technology
2018 Revelle Medal, University of California, San Diego.
2020 The Shokumon Award of the University of Tokyo

Career Positions

1968-1969 National Science Foundation Postdoctoral Fellow,
Joint European Center for Scientific Research, Ispra, Italy
1969-1970 Research Associate, Brookhaven National Laboratory, Upton, NY
1970-1980 Professor, Department of Nuclear Engineering and Engineering Physics, University of
Wisconsin, Madison. (Associate Professor 1970-75, Professor 1975-80.)
1972 Visiting Scientist, Argonne National Laboratory (June-September)
1974-1980 Director, Fusion Technology Institute, University of Wisconsin-Madison
1977-1980 Romnes Endowed Chair Professor, University of Wisconsin
1977 Visiting Scientist, Max-Planck Institute for Plasma Physics, Munich, Germany
1980-1993 Professor of Engineering and Applied Science, Department of Mechanical and Aerospace
Engineering, University of California, Los Angeles (UCLA).
1983 Visiting Professor, Ben Gurion University of the Negev, Israel. (Sabbatical Leave)
1983 Visiting Senior Scientist, Forschungszentrum-Juelich, Germany (Sabbatical Leave)

- 1986-1994 Co-Founder, Chairman of the Board of Directors (1986-1993) and Chief Technologist, Plasma & Materials Technologies, Inc. (PMT), Chatsworth, CA. (PMT had an initial public offering on NASDAQ in 1995 and was later acquired.)
- 1986-1993 Founding Director, Institute of Plasma and Fusion Research (IPFR), UCLA.
- 1994-2002 Dean and Walter J. Zable Professor of Applied Physics, Irwin and Joan Jacobs School of Engineering, University of California, San Diego.
- 2000-2002 Chair, Institute Governing Board, California Institute for Telecommunications and Information Technology (Calit2), a joint institute of UC San Diego and UC Irvine.
- 2002-2012 Member, External Advisory Board, California Institute for Telecommunications and Information Technology (Calit2). UC San Diego and UC Irvine.
- 2002-2008 Managing Director, Enterprise Partners Venture Capital (EPVC), La Jolla, CA.
- 2004-present Dean and Zable Professor of Applied Physics, Emeritus, Irwin and Joan Jacobs School of Engineering, University of California, San Diego.
- 2009-2020 President and CEO, The Kavli Foundation, Member, Board of Directors (Ex Officio).
Chair, Investment Committee of Kavli Foundation Board
- 2012-2020 Co-Founder Science Philanthropy Alliance. Board Chair, 2014-2019.

Corporate Boards and Positions

- 1986-1994 Co-Founder, Member, Board of Directors (Chairman, 1985-1993) and CTO. Plasma & Materials Technologies, Inc. (PMT), Chatsworth, CA. (PMT had its IPO in 1995 and was later acquired.)
- 1997-2002 Member, Advisory Board, Mission Ventures, a venture capital firm in San Diego
- 2000-2015 Member, Board of Directors, Intersil Corp. (NASDAQ, ISIL), Milpitas, CA.
- 2002-2007 Member, Board of Directors, STATS-ChipPAC Corp. (ADR listed on NASDAQ). Stats-ChipPAC was acquired in 2007 by Temasek, the Singapore Government sovereign fund.
- 2003-2006 Member, Board of Directors, PathScale Inc. Mountain View, CA. (Enterprise Partners Venture Capital was a lead VC investor in PathScale, which was acquired in 2006 by QLogic Corp.)
- 2004-2008 Member, Board of Directors, Pivotal Systems, Inc. Pleasanton, CA. (Privately held, Enterprise Partners Venture Capital is an investor in Pivotal Systems, Inc.)
- 2004-2008 Member, Board of Directors, NEXX Systems, Inc., Billerica, MA. (Enterprise Partners Venture Capital was the lead VC investor in NEXX Systems, Inc. NEXX was acquired by Tokyo Electron Co. in 2012.)
- 2005-2006 Member, Board of Directors, Ascendent Communications, San Jose, CA. (Enterprise Partners Venture Capital was an investor in Ascendent, which was acquired by Research in Motion (RIM) in 2006.)
- 2005-2008 Member, Board of Directors, Quorum Systems, Inc. San Diego, CA. (Enterprise Partners Venture Capital was lead VC investor in Quorum, which was acquired by Spreadtrum, Inc. in 2008.)
- 2006-2008 Member, Board of Directors, Novera Optics, Inc., Santa Clara, CA. (Enterprise Partners Venture Capital was an investor in Novera Optics, which was acquired by LG-Nortel in 2008.)
- 2006-2008 Member, Board of Directors, Hammerhead Systems, Inc. Mountain View, CA. (Privately held. Enterprise Partners Venture Capital was an investor in Hammerhead Systems.)
- 2006-2007 Member, Board of Directors, Tarari, Inc. San Diego, CA. (Enterprise Partners Venture Capital was an investor in Tarari, which was acquired by LSI Logic in 2007.)

2007-2008 Member, Board of Directors, Quartics, Inc. Irvine, CA. (Privately held, Enterprise Partners Venture Capital was an investor in Quartics, Inc.)

Federal, State, University and National Boards and Committees (Since 1980)

1980-1983 Member, Advisory Committee on Fusion Energy, U.S. House of Representatives
Committee on Science and Technology

1980 Member, Energy Research Advisory Board Fusion Review Panel, U.S. Department of
Energy

1982-1983 Chair, Review Committee on Low Activation Materials for Fusion Applications, U.S.
Department of Energy

1981-1984 Member, Magnetic Fusion Advisory Committee, U.S. Department of Energy

1985-1985 Member, U.S. Technical Working Party; Economic Summit Activity on Technology, Growth
and Employment

1985-1990 Member, Editorial Board of the IAEA scientific journal, Nuclear Fusion

1985-2002 Founder and Principal Editor, Fusion Engineering and Design, an international technical
journal on fusion energy research.

1987-1990 Member, U.S. Representative on the Technical Advisory Board for the ITER International
Fusion Energy Project, International Atomic Energy Agency, Vienna

1988-1989 Member, National Research Council Committee on the Pacing of the Magnetic Fusion
Energy Program, National Academy of Sciences

1989-1990 Member, National Research Council Committee on Inertial Confinement Fusion, National
Academy of Sciences

1990-1990 Member, Fusion Policy Advisory Committee, U.S. Department of Energy.

1991-1993 Chair, Fusion Energy Advisory Committee, U.S. Department of Energy

1994-1996 Chair, Fusion Energy Sciences Advisory Committee (Re-chartered), U.S. Department of
Energy

1994-1999 Member, Scientific Advisory Board to San Diego County Board of Supervisors

1995-1995 Vice Chair and Member, U.S. President's Committee of Advisors on Science and
Technology (PCAST), Fusion Energy Review Panel

1995-2002 University of California Engineering Education Committee (Chair, 1995-1999)

1996-2001 Member, University of California President's Engineering Advisory Committee

1996-1997 Member, National Research Council Committee for the Review of the U.S. Inertial
Confinement Fusion Program, National Academy of Sciences

1996-2000 Member, Fusion Energy Sciences Advisory Committee, U.S. Department of Energy

1996-2003 Member, Executive Board, UCSD CONNECT

1997-1998 Member, U.S. President's Committee of Advisors on Science and Technology (PCAST),
Energy Research and Development Panel

1997-2002 Member, Public Policy Committee, American Association of Engineering Education

1997-2002 Chair, Director's Advisory Committee, San Diego Supercomputer Center, UC San Diego

1997-2002 Member, California Institute of Technology President's Advisory Committee for the
Division of Engineering and Applied Science

1998-2000 Member, Committee to Develop San Diego's High Tech High School.

1998-2002 Member, Governing Committee of the International Conference on Inertial Fusion Science
and Applications, Bordeaux, France.

1998-2002 Chair, Physics Division Review Committee. Los Alamos National Laboratory

2001-2003 Member, California Council on Science and Technology

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| 2002-2010 | Member, University of California President's Advisory Committee on Science and Innovation |
| 2002-2014 | Member, Calit2 Advisory Board, California Institute for Telecommunications and Information Technology, A UC San Diego-UC Irvine Partnership. |
| 2003-2004 | Member, National Academies (of Science, Engineering and Medicine) Committee on Facilitating Interdisciplinary Research. (Report issued in 2004.) |
| 2005-2008 | Member, Board of Directors, San Diego Venture Group |
| 2005-2010 | Member, Finance and Budget Committee, National Academy of Engineering |
| 2007-2008 | Member, The National Academies <i>Keck Futures Initiative</i> Review Panel; Report issued by the National Academy of Sciences and the National Research Council in 2008. |
| 2014-2020 | Board of Directors, Science Philanthropy Alliance (Board Chair 2015-2019) |
| 2020-Present | Member, Investment Committee, National Academy of Sciences |

Publications and Editorships

Two Monographs as Book Chapters; Three Chapters in Books; Founder and Principal Editor (1986 - 2001) of the international scientific journal, Fusion Engineering and Design.

Publications include approximately 300 scientific articles in refereed journals and reviewed conference proceedings; approximately 80 invited papers and talks at national and international conferences, schools and symposia; and articles on science policy and scientific subjects in publications such as Scientific American, the Encyclopedia Britannica, Science, the New York Times and the Los Angeles Times.

List of publications provided on request.

Patents

Three patents issued relating to methods and devices for semiconductor chip manufacturing in the fields of plasma etching and thin film deposition.