

# Robert Conn

*Managing Director*

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Areas of focus:

- Semiconductors and Components
- Energy Systems
- Specialized Materials

Robert W. Conn is a Managing Director at Enterprise Partners Venture Capital. At Enterprise, Bob leads investments in areas such as semiconductors, energy and material. He is on the Board of Directors of several EPVC portfolio companies including: 3Leaf Networks, Ascendent Systems, PathScale, Pivotal Systems, NEXX Systems, Quorum Systems, Nuelight, Tarari and two public companies, Intersil, a major high performance analog chip company, and STATS-ChipPAC, one of the world's largest semiconductor package, assembly and test companies.

Bob co-founded Plasma & Materials Technologies in 1987, and helped build it into an international manufacturer of semiconductor etch and deposition equipment. He served as Chairman, Chief Technologist until 1994, when he became Dean of Engineering at UC, San Diego. The company had an IPO in 1995, and later merged to become Trikon Technologies, now headquartered in the U.K. Dr. Conn is a member of the Board of Directors of Intersil Corp, a leader in high performance analog chips and devices, and of STATS-ChipPAC Inc., a leading semiconductor packaging, assembly and test services company.

## 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
1970-1979	Professor, Department of Nuclear Engineering and Engineering Physics, University of Wisconsin - Madison. (Associate Professor, 1970-75, Professor 1975-79.) Romnes Endowed Chair Professor, 1977-1979.
1972	Visiting Scientist, Argonne National Laboratory (Summer, 1972)
1974-1979	Director, Fusion Technology Institute, University of Wisconsin - Madison
1977	Visiting Scientist, Max-Planck Institute for Plasma Physics, Munich, Germany (Summer, 1977)
1980-1993	Professor, Department of Mechanical, Aerospace and Nuclear Engineering, University of California, Los Angeles (UCLA)
1986-1994	Co-Founder, Chairman of the Board of Directors (1986-1993) and Chief Scientist, Plasma & Materials Technologies, Inc. (PMT), Chatsworth, CA. (PMT went public in 1995 and In 1997; it merged with Electrotech to form Trikon Technologies, Inc., now headquartered in the U.K.

- 1987-1993 Founder and Director, Institute of Plasma Physics and Fusion Energy Research, UCLA
- 1994-2002 Dean and Walter J. Zable Professor of Engineering Science, 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, Cal-IT<sup>2</sup>, a joint institute of UC, San Diego and UC, Irvine. The Board was responsible for the proposal, since funded, to the State of California, Industry, Foundations, and Donors.
- 2002 - Member, External Advisory Board, California Institute for Telecommunications and Information Technology. UC, San Diego and UC, Irvine.
- 2002 - Professor of Engineering Science (Emeritus), Jacobs School of Engineering, University of California, San Diego.
- 2002 - Managing Director, Enterprise Partners Venture Capital, La Jolla, CA.

### **Corporate Boards and Positions**

- 1986-1994 Member, Board of Directors (Co-Founder, and Chairman, 1986-1993), Plasma & Materials Technologies, Inc. (PMT), Chatsworth, CA. (PMT had an IPO in 1995 and in 1997, it merged with ElectroTech to form Trikon Technologies, Inc., now headquartered in the U.K.)
- 1997-2002 Member, Advisory Board, Mission Ventures, a venture capital firm in San Diego, CA
- 2000- Member, Board of Directors, Intersil Corp. (NASDAQ, ISIL), Milpitas, CA. Intersil is a leading high performance analog chip company.
- 2002- Member, Board of Directors, STATS-ChipPAC Corp. (NASDAQ), Singapore. STATS-ChipPAC is one of the world's largest semiconductor package, assembly and test companies.
- 2003- Member, Board of Directors, PathScale Inc. Mountain View, CA (privately held, EPVC is a major investor.) PathScale develops and sells high performance interconnect chips and compilers to enable 64 bit Linux-based cluster and blade computing.
- 2004- Member, Board of Directors, Pivotal Systems, Inc. Pleasanton, CA. (privately held, EPVC is a major investor.) Pivotal Systems develops and sells products to enable improvements in semiconductor manufacturing processes to enhance throughput and yield.
- 2004- Member, Board of Directors, NEXX Systems, Inc. (privately held, EPVC is a major investor, Belirica, MA. NEXX develops and sells deposition and electroplating tools for packaging of semiconductor chips and displays.
- 2004- Member, Board of Directors, NueLight, Inc. Santa Clara, CA. (privately held, EPVC is a major Investor), Nuelight develops mixed signal and analog chips for OLED flat panel displays.

2005- Member, Board of Directors, 3Leaf Networks, Santa Clara, CA, (privately held, EPVC is a major investor.) 3Leaf develops virtual I/O and virtual server products.

**Federal, State, County, University and National Boards and Committees**

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

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

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

1985-2002 Founder and Principal Editor, Fusion Engineering and Design, an international technical journal on fusion energy research, (Elsevier Scientific Publishers)

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 Panel on the Pacing of the Magnetic Fusion Energy Program

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

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 Vice Chair and Member, U.S. President's Committee of Advisors on Science and Technology, 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,

1996-2000	Member, Fusion Energy Sciences Advisory Committee, U.S. Department of Energy
1996-2003	Member, UCSD CONNECT - Executive Board
1997-1998	Member, U.S. President's Committee of Advisors on Science and Technology, Energy Research and Development Review Panel
1997-2002	Member, Public Policy Committee, American Association of Engineering Education
1997-2002 San Diego	Chair, Director's Advisory Committee, San Diego Supercomputer Center, UC, San Diego
1997-	Member, California Institute of Technology President's Advisory Committee for the Division of Engineering and Applied Science
1998-2000	Member, Committee for the Development of San Diego High Tech High School
1998-2002	Member, Governing Committee of the International Conference on Inertial Fusion Science and Applications.
1998-2002	Consultant, Los Alamos National Laboratory and Chair, Physics Division Review Committee.
2001 – 2003	Member, California Council on Science and Technology
2002 –	Member, University of California President's Advisory Committee on Science and Innovation
2003 - 2004	Member, National Academies (of Science, Engineering and Medicine) Committee on Facilitating Interdisciplinary Research, Supported by the Keck Foundation.
2005 -	Member, Finance and Budget Committee, National Academy of Engineering, Washington, D. C.

### **Publications and Editorships**

Two Monographs as Book Chapters; Three Chapters in Books; Founder (in 1986) and Principal Editor (1986 through 2001) of Fusion Engineering and Design, an international scientific journal; Publications include more than 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 and the Encyclopedia Britannica.

### **Patents**

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

### **Degrees, Honors and Awards**

- 1964 B.S. - Pratt Institute (Chemical Engineering & 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, by the Secretary of Energy
- 1984 Ernest O. Lawrence Memorial Award, Presented 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, - from the Corporate Affiliates Program, Univ. of California, San Diego
- 1998 Distinguished Alumni of the Year, California Institute of Technology