



Mark J. O'Neill

Education: B.S., Aerospace Engineering, University of Notre Dame
Graduate Studies, Mech. Engineering, University of Alabama-Huntsville

Experience: Nov. 2011 – Present, Mark O'Neill, LLC, Keller, Texas: O'Neill is founder and president of a 12-year-old small business which is doing state-of-the-art development work in solar power systems for both space and terrestrial applications, laser power beaming technology, and ultra-bright traffic stripes. Recent customers include NASA, DOD, Northrop Grumman, MicroLink Devices, and the National Academy of Sciences. The company has won multiple Phase I and Phase II Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) contracts with NASA, as well as multiple subcontracts with aerospace companies to support programs funded by NASA, DOD, and other customers. More information on the company is available at www.markoneill.com.

2008 – 2011, Entech Solar Inc., Fort Worth, Texas: O'Neill served as Chief Technology Officer and member of the board of Entech Solar, Inc., a small business and public company. Entech Solar was the successor company to ENTECH, Inc., following a merger/acquisition in January 2008.

1983 – 2008, ENTECH, Inc., Keller, Texas: O'Neill was one of the original founders of ENTECH, Inc., a private company established in 1983 as the result of a leveraged management buyout of the solar energy business unit from a large Dallas-based corporation, E-Systems, Inc., now part of Raytheon. O'Neill was directly involved in negotiating the leveraged management buyout of the Energy Technology Center business unit from E-Systems. O'Neill served as ENTECH's President with responsibility for engineering, manufacturing, marketing, accounting, and administration of the corporation. O'Neill also proposed, won, and managed major contracts worth many millions of dollars for customers including DOE, Sandia National Labs, NASA, DOD, Boeing, 3M, domestic utility companies, and overseas customers.

1975 – 1983, E-Systems, Inc. (now Raytheon), Energy Technology Center, Garland, Texas: As Director of Energy Programs, O'Neill had technical and management responsibility for a variety of research, development, and demonstration programs funded by DOE, Sandia, JPL, and other organizations.

1974 – 1975, Northrup, Inc./Energy Utilization Systems, Inc., Hutchins, Texas: As V.P. of Energy Utilization Systems, Inc., O'Neill developed the first commercially available concentrating solar heat collector.

1969 – 1974, Lockheed Missiles & Space Co., Huntsville, Alabama: As Project Engineer, after conducting research in the areas of heat transfer, phase change material energy storage, and absorption cycle cooling for space applications, O'Neill proposed to NASA in 1972 to spin-off some of these space technologies for terrestrial solar energy applications. O'Neill's proposal led to the development of one of the first solar-cooled buildings in the U.S., at NASA-Marshall Space Flight Center in 1974.

Publications, Patents, Awards: O'Neill has authored or co-authored over 200 technical publications, including 23 U.S. patents (including 7 since 2017) and three textbooks (including one in 2022 and another in 2023). O'Neill has won multiple awards, including a 2012 R&D 100 Award (jointly with NASA) and a 2012 NASA Exceptional Space Act Award (jointly with NASA). Patents and recent publications are available for download at www.markoneill.com.