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### Summary

Extensive experience serving in administrative and management positions in both industry and academic institutions. Served as an officer of the University of Colorado Denver and of an advanced technology and manufacturing company with experience in administration, strategic and financial planning. Experience as senior contract officer dealing with U.S. and foreign industrial and government agencies. Academic and industry experience includes serving as Dean, Department Chair, Associate Department Chair, Executive Vice President, Chief Operating Officer, and Director of Engineering.

Successful experience dealing with government and industry institutions and have had success working and obtaining support from both political and industrial agencies. Enjoy outreach programs and working with the industrial and state political systems to obtain program support. Have extensive experience working with industry and government agencies to develop partnerships for technology transfer and for developing R&D programs.

### Education

Ph.D. Purdue University, W. Lafayette, IN, 1974  
M.S. Southern Methodist University, Dallas, TX, 1969  
B.S. University of Kansas, Lawrence, KS, 1965  
I.E.M. Harvard University, Cambridge, MA, 1994  
M.B.A. Pepperdine University, Malibu, CA, 1986

### Military Experience

**United States Marine Corps: 1958-1963**

### Academic Experience

**United States Naval Academy, Annapolis, ME**

- Visiting Professor, Mechanical Engineering Dept, July, 2007- August, 2008
- Director, ONR Fuels Research Group

**United States Air Force Academy, Colorado Springs, CO**

- Distinguished Visiting Professor, Engineering Mechanics Dept., July 2004-May, 2006.
- Director, Energy Research Center
- Member of UAV Research Program

**United States Military Academy, West Point, NY**

- Distinguished Visiting Professor, Civil & Mechanical Engineering. Dept.,
- July, 2002-June, 2003

**University of Colorado Denver**

- Special Assistant to the Vice Chancellor for Academic Affairs, 2002- July, 2002
- . **Dean, College of Engineering & Applied Science, 1992-2002**
- . Professor of Mechanical Engineering, 1992-present
- . Director, International Technology Transfer Program, 1993- 2002
- . Director, Energy R&D Program, 1992-2002.

**University of Nebraska-Lincoln, Mechanical Engineering Department, Lincoln, NE**

- . **Professor and Dept. Chair, 1986-1992**
- . Director, Center for Engine Technology, 1986-1992

**Texas A&M University, Mechanical Engineering Department, College Station, Texas**  
**Assoc. Dept. Head, 1980-1984**

- . Professor, 1982-1984
- . Associate Professor, 1978-1982
- . Assistant Professor, 1975-1978
- . Director, Turbomachinery Laboratory, 1978-1984

**Northern Arizona University, Flagstaff, AZ**

- . Assistant Professor, 1974-1975

**Professional Experience**

**Engine Corporation of America, Fullerton, CA**

- . Executive Vice President and Director of Engineering, 1984-1986

**Texas Instruments, Inc., Dallas, TX**

- . Senior Design Engineer, 1966-1970

**L.T.V. Vought Aeronautics, Dallas, TX**

- Design Engineer, 1965-66

**Registration**

Professional Engineer, Texas (39287)

**Patents**

Received five patents

**Scientific and Professional Memberships**

**Colorado Society of Professional Engineers**

President, Metro Chapter, 1996-1997

Member, Board of Directors, 1996-1998

**American Society of Mechanical Engineering (ASME), Fellow, 1964-present**

Member, Energy Committee, 1987-1988

Member, National Nominating Committee, 1981-1984

Member-at-large, Energy Resources Group, 1981-1986

Chairman, Technical Division, 1980-1981

Program Chairman, ASME Winter Annual Meeting, 1979  
Member, Executive Committee, 1978-1982  
Vice-chairman, Fluid Mechanics Section, 1975  
Member, Gas Turbine Division, 1978-present  
**American Institute of Aeronautics and Astronautics (AIAA)**, 1974-present  
Terrestrial Energy Systems Technical Committee, 1978-1979

**Society of Automotive Engineering (SAE)**, 1978-present  
Chairman, National NGV Conference, 1991  
Advisor, Univ. of Nebraska Student Chapter, 1987-1992  
SAE Research Committee, 1993-1999  
SAE ABET Committee, 1993-1999

**National Society of Professional Engineers (NSPE)**, 1975-present  
Education Committee Chairman, 1991

**American Society of Engineering Educators (ASEE)**, 1974-present  
Member, Energy Division  
Associate Chairman, Summer Annual Conference, 1989

**American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)**,  
1976-present  
Education and Research Committee, 1976-1978

**Boy Scouts of America**, 1976-present  
Scoutmaster, Woodbadge Instructor and Commissioner

## Honors and Awards

- 2008 Received Letter of Commendation for teaching at the three military academies from the Deputy Secretary of Defense, Gordon England.
- 2007 Appointed Visiting Professor, U.S. Naval Academy, Annapolis, MD.
- 2007 Selected as a Distinguished Alumni, University of Kansas
- 2004 Selected as a Distinguished Visiting Professor at the US Air Force Academy.
- 2003 Received the US Army's "Commander's Award for Outstanding Public Service", from the United States Military Academy, West Point, NY, May, 2003.
- 2002 Completed "ASCE EXCEED" Teaching Program at the U.S. Military Academy
- 2002 Selected as a Distinguished Visiting Professor at the US Military Academy, West Point, NY
- 2000 Selected as one of 50 participants in the Leadership Denver by the Denver Metro Chamber of Commerce.
- 1996 Elected President, Metro Chapter, Professional Engineers of Colorado
- 1994 Selected to attend the IEM program at Harvard University
- 1992 Elected to Tau Beta Pi Engineering Honorary Society
- 1991 Elected to the New York Academy of Sciences
- 1990 Invited to White House in Washington, DC to brief President Bush's staff on alternative fuels and engine technology
- 1990 Recipient of the University Outstanding Teaching Award, University of Nebraska-Lincoln.
- 1989 Hosted President Bush and three Cabinet members at the Center for Engine Technology at UNL.  
Made technical presentation and gave tour of test facilities
- 1987 SAE Senior Teetor Award Winner
- 1985, 1988-1999 - Who's Who in America
- 1984 *Fellow*, American Society of Mechanical Engineers
- 1984 Received the National NUCEA Conferences and Institute Faculty Service Award
- 1983-1984 Appointed as a member of the Propulsion Committee for the National Research Council of the National Academy of Engineering

### List of Significant Publications

1. “ An Experimental Study on the Effects of Fisher-Tropsch (FT) Blends with Diesel #2 and JP-5 on the Performance of a Rolls-Royce Model 250-C20B Gas Turbine Engine”, accepted For presentation at the ASME Turbo-Exp Conference, Orlando, FL, June, 2009.
2. “Turbine Fuel Testing with Boron Nano-Particles”, by P.E. Jenkins, presented at the Naval Research Lab (NRL) Alternative Fuel Workshop, Washington, D.C., July 19-20, 2007.
3. “*The Impact of Sulfur Free Diesel Fuel on Lubricity and Contamination*”, by P.E. Jenkins and M. Tal, presented at the British Institution for Mechanical Engineers (with Honors) - Total Vehicle Technology Conference, Sussex, England, April 26-28, 2004.
4. “Reversed Brayton Cycle Gas Turbine”, by P.E. Jenkins, presented at the 2<sup>nd</sup> International HEFAT Conference, Victoria Falls, Zambia, Africa, June 23-26, 2003.
3. “*Conversion/Training of High Tech Labor Resources*”, by D. Ferrigno and P.Jenkins, presented at the 2<sup>nd</sup> European Systems Engineering Conference”, Munich, Germany, September 13-15, 2000.
4. “*A New Micro-Gas Turbine Engine*,” by P.E. Jenkins, presented at the ASME Gas Turbine Conference, Munich, *German*, May 8-11, 2000..
5. “*Insulating Techniques and Radiation Characteristics of Materials in Advanced Engine Designs*,” by P.E. Jenkins, for EPA, Ann Arbor, MI, June 3, 1997, 41 pages.
6. “*High Temperature Materials Study for Advanced Engine Designs*,” by P.E. Jenkins, for EPA, March 25, 1997, Ann Arbor, MI, 47 pages
7. “*International Technology Transfer Programs*,” by P.E. Jenkins, U.S. Dept. of Energy Conference on Environmental Opportunities in Mexico and the Border Countries, Washington, DC, June 20-21, 1994, pp. 131-146.
8. “*Derivation of a Tumble Number for Accidents Involving Pedestrians*, ” by W.M. Szydlowski and P.E. Jenkins, SAE Technical Paper No. 933660, presented at the 1993 SAE International Congress & Exposition, Detroit, MI, March 1-5, 1993.
9. “*Performance Analysis of a Spark Ignited Engine with ETBE as a Blending Agent*, ” by P.E. Jenkins, Y.S. Cho and B. Kim, SAE Technical Paper No. 901520, presented at the Future Transportation Technology Conference, San Diego, CA, August 14-16, 1989.
10. “*Performance Analysis of SI Engines with Ethyl Testiary Butyl Ethers (ETBE) as a Blending Component in Motor Gasoline and Comparison with other Blending Components*, ” by C. Baur, B. Kim, P.E. Jenkins and Y.S. Cho. Proceedings for the 1990 Intersociety Energy Conversion Conference, Vol. 4, pp. 337-342, August 12-17, 1990, Reno, NV.
11. “*Performance Characteristics of a Multiple-Disk Centrifugal Pump*, ” by R. Roddy, G. Morrison and P.E. Jenkins, Paper No. 1949-WT, published in the ASME Transaction, *Journal of Fluids Engineering*, March 1987, Vol. 109, pp. 51-57.
12. “*Flowfield and Performance Measurements in a Vaned Radial Diffuser*, ” by J.C. Dutton, P.

Piemsombon and P.E. Jenkins, Paper No. 84-WA/FM-7, published in ASME Transaction, *Journal of Fluids Engineering*, June 1986, Vol. 108, pp. 141-147.

13. "Analysis of Component Power Losses in Centrifugal Pumps," by W.W. Peng and P.E. Jenkins, presented at the Symposium on the Performance Characteristics of Hydraulic Turbines and Pumps, ASME Winter Annual Meeting, Boston, MA, November 1983, ASME *Journal of Fluids*, 1988.
14. "Heat Transfer and Film Cooling with Steam Injection through an Inclined Hole over a Flat Plate," by J. Han, H. Chan and P.E. Jenkins, ASME-AICHE National Heat Transfer Conference, 83-HT-9, Seattle, WA, July 1983.
15. "Film Cooling with Steam Injection through Three Staggered Rows of Inclined Holes over a Straight Airfoil," by G. Conklin, J. Han and P.E. Jenkins, ASME International Gas Turbine Conference, 83-GT-30, March 1983.
16. "A Fluidized-bed Combustion Heat Transfer Model using Finite Elements," by P.E. Jenkins and T.W. Richardson, ASME 82-GT-169, 1982.
17. "The Prediction of Film Cooling Effectiveness of Steam," by J. Han and P.E. Jenkins, ASME 82-GT-100, 1982.
18. "Comparison of the HTTT Reheat Gas Turbine Combined Cycle with the HTTT Non-Reheat Gas Turbine Combined Cycle," by I.G. Rice and P.E. Jenkins, Paper No. 81-GT-69, published in the ASME Transaction, *Journal of Engineering for Power*, 1981, Vol. 194, pp. 129-142.

## Research Projects

- 2009 - MFC Fuel Cell Program, program approved by ONR, \$450K (3 years).
- 2009 -USNA-ONR - JP5/FT Engine Alternative Fuel Testing Program, Phase I&2, \$49K (Program Approved by ONR)
- 2008 - USNA Alternative Fuel Gas Turbine Testing Program, ONR, \$209,800 (Funded)
- 2007 - USNA Synthetic Fuel Development and Testing Program, ONR, \$179,900 (Funded).
- 2005-06 - Cadet Energy Research Training Program, US Air Force, \$5.3M (proposed)
  - Heavy-Fuel Engine for Small UAV Initiative, US Air Force, \$532K (Funded)
  - IED Detection: Acoustic Imaging, DoD, \$2.2M (Funded)
  - Technology Impact Analysis, DoD IED Program, \$350K (Funded)
- 2005 - Director, US Air Force Academy Energy Research Center, \$48,731 (Funded)
- 2004 - US Air Force Academy, Colorado Springs, CO, IPA, \$146,000 (Funded)
- 2004 - *Clean Diesel Training Program*, FEV Engine Technology Corp, Auburn Hills, MI, \$10,000 (Funded).
- 2002 - US Military Academy, West Point, NY, \$142,000 (Funded)
- 2000 - *Retraining Instruction for Telecommunications & Computer Science*, Raytheon Company, \$450,000 (Funded)
- 1999 - *Retraining Instruction for Telecommunications & Computer Science*, US WEST, \$2,185,000 (Funded)
  - *Lowry Engineering Program*, \$125,000/yr, Colorado Commission on Higher Education

- 1998 - *Tetherless T3 and Beyond* Workshop, National Science Foundation, \$50,000 (Principal Investigator)
- 1997 - *Applying Educational Technologies to Undergraduate Engineering Programs*, Colorado Commission on Higher Education, \$169,000 (Principal Investigator).  
- *Lowry Engineering Program*, CCHE, \$259,000 (Renewed).
- 1996 - *Lowry Engineering Program*, Colorado Commission on Higher Education, \$259,000 (Principal Investigator)  
- *Distance Learning Course Development*, Colorado Commission on Higher Education, \$169,000 (Principal Investigator)
- 1995 - *Electronic Delivery Program*, U.S. GSA, \$159,000 .  
- *Distance Learning Program*, Colorado Commission on Higher Education, \$29,000.
- 1994 - *Project Colorado – Service to the Citizen*, U.S. Postal Service, \$39,400.
- 1992-1993 - *International Technology Transfer Program*, University of Colorado, \$30,000.
- 1990-1991 - *Alternative Fuel Research Program*, Nebraska Energy Office with several industries, \$856,740.
- 1989-1990 - *Small Cogeneration System Development*, Tahoe/Cogentech Corp., \$498,000 (Phase II).  
- *Rotary Engine Development for RPV*, U.S. Navy/CSA Corp., \$50,000 (Phase I).
- 1988-1989 - *Small Engine Development/Demonstration Program*, JKR Technology Co./Ssangyong Motor Co., \$350,000 (Phase I).  
- *Small Cogeneration System Development Program*, Tahoe/Cogentech Corp., \$250,000 (Phase I).  
- *Metal Vapor Turbine-Alternator Development Program*, Space Power, Inc./U.S. Department of Defense, \$55,000 (Phase I).
- 1987-1988 - *Packaged Rotary Cogeneration Development Program*, Power Systems Corporation/John Deere Inc., \$220,000/yr.
- 1987 - *Hydrogen Injection Studies in a Cummins Diesel Engine*, Dual-Dynamics Corporation, \$15,000.
- 1986-1987 - *Diesel Roto-Compound Engine Demonstration Program*, Engine Corporation of America/General Motors, \$39,000 (Phase I).