

VERNON PARKER ROAN, JR.

EDUCATION

Ph.D. Engineering .University of Illinois, 1966
M.S. Engineering .University of Florida, 1959
B.S. Aeronautical Engineering .University of Florida, 1958

EXPERIENCE

Director, University of Florida Fuel Cell Laboratory*, 1994-2003
Director, Center for Advanced Studies in Engineering, 1989-2000.
Professor of Mechanical Engineering, University of Florida*, 1973-2003.
Graduate Coordinator, Mechanical Engineering Department, 1983-89.
Director, Conventional and Alternative Transportation Systems (CATS) Laboratory, 1981-86
Visiting Professor, Brunel University, Uxbridge England, 1979-80.
Associate Professor of Mechanical Engineering, University of Florida, 1966-73.
Instructor of Aeronautical and Astronautical Engineering, University of Illinois, 1964-66.
Adjunct Professor, University of Florida, West Palm Beach, Florida, Graduate Center 1960-64.
Senior Design Engineer, Pratt & Whitney Aircraft, West Palm Beach, Florida 1959-64.

* Retired from the University of Florida in 2003

SUMMER EMPLOYMENT

1985-89 & 2002 Pratt & Whitney, West Palm Beach, Florida. Consultant, Advanced Propulsion Systems.
1980-84 Jet Propulsion Lab, Pasadena, California, Consultant, Electric and Hybrid Vehicle Program.
1973 DuPont Corporation, Old Hickory, Tennessee, Research Engineer, Consultant, Textile Fibers Division.
1968 American Coolair Corporation, Jacksonville, Florida, Consultant, Fan Design and Testing.
1957 Lockheed Aircraft Corp., Marietta, Georgia, Gasdynamics Section.

PROFESSIONAL AND HONOR SOCIETIES

American Society of Engineering Education
American Institute of Aeronautics and Astronautics
American Society of Mechanical Engineers
Society of Automotive Engineers
National Society of Professional Engineers (inactive)
Florida Engineering Society (inactive)
Tau Beta Pi Engineering Honor Society
Pi Tau Sigma Mechanical Engineering Honor Society
Sigma Gamma Tau Aerospace Engineering Honor Society
Sigma XI Technical Honor Society
Omega Delta Technical Kappa National Leadership Society

Florida Blue Key Leadership Society
Registered Professional Engineer, Illinois (inactive) and Florida (active)

**OTHER
PROFESSIONAL
ACTIVITIES**

Member, NextEnergy Technical Advisory Panel, 2004-
Organizer, SAE TOPTec on Hybrid Vehicles, 2004-05
Member, UTC Power Technical Advisory Panel, 2002-
Member, FreedomCAR National Research Council Peer Review
Committee, 2004-
Chair, ANL/DOE Go/No-go (onboard vehicle) Fuel Cell Fuel Processor
Panel, 2003-04
Invited to testify, U.S. House of Representatives Committee on Energy
and Commerce at FreedomCAR hearings, June 6, 2002
Invited to testify, U.S. House of Representatives Committee on Science
hearings "The Future of DOE's Automotive Research Programs", Feb
7, 2001
Member, South Coast Air Quality Management District Clean Fuels
Advisory Group (TAO SB-98) 1999-
Technical Advisor, California Energy Commission, Fuel Cycle Energy
Efficiency Analysis Project, 1999
Chair, Advisory Panel, for Fuel Cell Compressor/Expander Technologies,
Argonne National Laboratory, 1999-
Los Angeles Metropolitan Transit Authority, Preparation of RFP for
Conversion of ATTB to Fuel Cell Power, 1999-
Member, University of Chicago, Argonne National Laboratory Review
Committee-Chemical Division, 1997-2005
Member, Fuel Cell Technical Advisory Panel for the California Air
Resources Board, 1997-98
Member, Department of Energy Advisory Panel for National Laboratory
Fuel Cell Activities, 1996-
Member, Alternative Transportation Task Force, South California Air
Quality Management District, 1995-1997
Member, and Vice-Chair National Research Council Peer
Review Committee, "Partnership for a New Generation Vehicle"
1994-2002
Organized and chaired a national seminar for National Science Foundation
on Fuel Cells for Automobiles, Washington DC, December 1993
Member, Fuel Cell Locomotive Task Force, South California Air Quality
Management District, 1992-94
Member, Patent Committee for Engineering and Scientific Devices,
University of Florida, 1988-1998
Member, National Advisory Panel for Dept. of Energy on Fuel Cells in
Transportation, 1991

Edited and prepared proceedings for the 1984 Electric and Hybrid Vehicle Contractor Coordination Meeting, Las Vegas, Nevada, October 1984.
 Organized and chaired a national seminar, "Electric and Hybrid Vehicle Assessment Seminar", and prepared proceedings, Gainesville, Florida, December 15-16, 1983.
 Organized and chaired D.O.E. Seminar "Fuel Cells for Automotive Applications", Washington, DC, 1981.
 Organized and chaired a national seminar, and prepared proceedings, "Electric and Hybrid Vehicle Advanced Technology Seminar", Pasadena, California (Cal Tech), December 8-9, 1980.
 Consulting for over 20 organizations, mostly in the areas of electric and hybrid vehicles, fuel cell systems, and fuels.

**AWARDS &
HONORS**

2000-Transportation Fuel Cell Program, Special Recognition, DOE
 1991-92--100 Top Researchers-University of Florida
 1990-91--100 Top Researchers-University of Florida
 1990 Distinguished Alumnus Award-University of Illinois
 1989-90--100 Top Researchers-University of Florida
 1983 Received a Scientific Achievement Award from Jet Propulsion Lab.
 1979 Tapped into Florida Blue Key for "outstanding leadership, ability and service to the University of Florida"
 1979 "Overall International Winner, Liquid Fueled Vehicles" Energy Efficient Vehicle Competition, SCORE (faculty advisor for University of Florida team)
 1979 Sabbatical, Visiting Professor at Brunel University, England
 1978 "Outstanding Young Alumnus" Aeronautical and Astronautical Engineering, University of Illinois
 1977 "Overall International Winner Wind Division, Energy Resource Alternatives II, SCORE (faculty advisor for University of Florida team)
 1976 Tapped for ODK, Outstanding Attainments and Service University of Florida
 1975 "Ralph R. Teetor Award" Society of Automotive Engineers for Outstanding Teaching and Automotive-Related Research
 1975 "Teacher of the Year" Award, University of Florida, College of Engineering
 1974 "Outstanding Undergraduate Teaching Award", Tau Beta Pi Engineering Honor Society
 1972 "Overall Winner Hybrid Division, National Winner All Divisions", Urban Vehicle Design, SCORE (faculty advisor for University of Florida team) 1969 "Outstanding Undergraduate Teaching Award"-Tau Beta Pi Engineering Honor Society
 1964-66 Ford Foundation Fellow, University of Illinois

PUBLICATIONS

Over 100-mostly Fuels, Fuel Cells, Electric and Hybrid Vehicles.