

Gerald John Micklow

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Education

- B.S.-1975 Pennsylvania State University
 Major: Aerospace Engineering
- M.S.-1981 Pennsylvania State University
 Major: Aerospace Engineering
- Ph.D.-1989 Virginia Polytechnic Institute and State University
 Major: Mechanical Engineering

Professional Experience

- 2012-present Department of Mechanical and Aerospace Engineering, Florida Institute of Technology, Melbourne, FL, Professor, Head, Automotive Engineering, Director, Florida Center for Automotive Research
- Automotive Engineering, thermodynamics, computational fluid dynamics, fluid dynamics, gas turbine engines, advanced fan and compressor design, compressible gas dynamics, jet and rocket propulsion, acoustic emissions, combustion, hydraulic systems, turbomachinery, internal combustion engines, external aerodynamics, dynamics, mechanics of materials, non-destructive testing, alternative fuels.
- 2005-2012 Department of Engineering, East Carolina University, Greenville, NC, Professor, Program Director, Mechanical Engineering Concentration
- Automotive Engineering, thermodynamics, computational fluid dynamics, fluid

dynamics, gas turbine engines, advanced fan and compressor design, compressible gas dynamics, jet and rocket propulsion, acoustic emissions, combustion, hydraulic systems, turbomachinery, internal combustion engines, external aerodynamics, dynamics, mechanics of materials, Non-destructive testing.

2001-2005 Mechanical Engineering and Engineering Science Department, University of North Carolina, Charlotte, Charlotte, NC, Associate Professor

Automotive and Motorsports Engineering, thermodynamics, computational fluid dynamics, fluid dynamics, gas turbine engines, advanced fan and compressor design, compressible gas dynamics, jet and rocket propulsion, acoustic emissions, combustion, hydraulic systems, turbomachinery, internal combustion engines, external aerodynamics.

1996-2001 Mechanical Engineering Department, University of Alabama, Tuscaloosa, AL. Associate Professor

Automotive Engineering, thermodynamics, computational fluid dynamics, fluid dynamics, compressible gas dynamics, jet and rocket propulsion, gas turbine engines, advanced fan and compressor design, acoustic emissions, combustion, hydraulic systems, turbomachinery, internal combustion engines.

1988-1996 Mechanical Engineering Department, University of Florida, Gainesville, Florida. Assistant Professor

Computational fluid dynamics, fluid dynamics, combustion, jet and rocket propulsion, gas turbine engines, advanced fan and compressor design, compressible gas dynamics, turbomachinery, hydraulic systems, internal combustion engines.

1982-1988 Mechanical Engineering Department, Virginia Polytechnic Institute and State University, Blacksburg, Virginia

Full-time faculty, Instructor, thermal-fluid sciences area

1981-1982 Allison Gas Turbines, Indianapolis, Indiana. Engineering Consultant

Advance military engine fan and compressor design. Worked on the improvement of existing compressor design codes. One of the principal designers for an entirely new advanced compressor for the Modern Technology Demonstrator Engine. This compressor was designed to achieve an 8.5:1 pressure rise in six stages. Low aspect ratio blading was utilized and the first three stages had supersonic blade sections. Arbitrary airfoil sections were used to minimize losses due to shocks and flow separation.

1980-1981 Tracor Aerospace, Austin, Texas.
Senior Development Engineer

Developed numerical models to predict the aerodynamic performance and heating characteristics of hypersonic re-entry bodies.

1976-1980 Pratt & Whitney Aircraft, Government Products Division, West Palm Beach, Florida. Senior Analytical Design Engineer
Advance fan and compressor design. Developed numerical models to predict the unsteady aerodynamic environment of rotor and stator blades during flutter and integrate the models into an overall flutter prediction scheme. Performed advanced compressor design for advanced jet fighter applications.

Fellowships

5/89-8/89 NASA Lewis Research Center, Combustor Technology Branch. ASEE Faculty Fellow.
5/90-8/90 NASA Lewis Research Center, Combustor Technology Branch. ASEE Faculty Fellow.
6/95-8/95 NASA Langley Research Center, Hampton Virginia. ASEE Faculty Fellowship.
6/96-8/96 NASA Marshall Space Flight Center, Huntsville, AL. ASEE Faculty Fellow.
6/97-8/97 Air Force Office of Scientific Research, Arnold Engineering Development Center, TN.

Consulting

01/18-present Steptoe & Johnson LLP, 1330 Connecticut Avenue, NW, Washington, DC 20036 Hybrid Electric Vehicles, patent litigation
12/17-present Venable LLP, 600 Massachusetts Avenue, NW, Washington, DC 20001, Engine Control Systems, patent litigation.
10/17-present Baker & McKenzie LLP, 2001 Ross Ave., Suite 2300 Dallas, TX 75201, Engine Monitoring Systems, patent litigation.
05/17-present Finnegan, Henderson, Farabow, Garrett & Dunner, LLP 901 New York Avenue, NW, Washington, DC 20001-4413 Hybrid Electric Vehicles, patent litigation.
12/16-present Mayer Brown LLP, 1999 K Street, N.W., Washington, D.C. 20006-1101 Gas Turbine Engine systems, patent litigation.

- 2/13-present Space Coast Intelligent Solutions, Melbourne, FL
Analysis of Mechanical Engineering Systems
- 11/12-present Lauren M. Dodrill, Smith, Gildea & Schmidt, LLC, 600 Washington Avenue,
Suite 200, Towson, MD 21204
Expert witness concerning the operation of large road transport vehicles and
mechanical systems
- 8/12-present Jonathan M. Feinstein, Tressler LLP, 233 South Wacker Drive, 22nd Floor
Chicago, IL 60606
Expert witness concerning the operation of large road transport vehicles and
mechanical systems
- 6/12-present Phillip J. Bartolementi, LTD., 53 W. Jackson Blvd., Suite 1401, Chicago, IL.
60604
Expert witness concerning the operation of large road transport vehicles and
mechanical systems
- 6/08-present H2 Fuel Sciences Inc, Austin, TX
Consultant for advanced combustion system, aerodynamics, and energy related
inventions related to automotive, tucking and railway applications.
- 11/07-present Bricker Law Firm PC, Richmond, VA
Expert witness concerning the pneumatic braking system on large buses.
- 9/07-present Viscon Technology Applications, Manassas, VA
Consultant for advanced combustion and fuel injection additives for improved
efficiency in automotive, tucking and railway applications
- 8/07-present Nelson and Nelson, PC, Belleville, IL
Expert witness concerning the operation of large road transport vehicles and
mechanical systems
- 7/07-present Spearhead Technologies LLC
Engineering Specialist to experimentally determine the effects engine aftermarket
devices on automotive fuel economy and vehicle performance.
- 6/07-present Advanced Technology Lubricants, Port Orange, FL
Consultant for advanced combustion and fuel injection additives for improved
efficiency in automotive, tucking and railway applications
- 5/05-present The X1R Corporation, Ormond Beach Florida
Engineering Specialist to experimentally determine the effects of oil additives on
automotive fuel economy and vehicle performance

- 9/03-present Infinium USA, LP Linden, NJ
Engineering Specialist to experimentally determine the effects of fuel additives on automotive fuel economy and vehicle performance
- 9/03-present Alston and Bird, Charlotte, NC
Expert witness concerning patent infringement
- 10/99-present Brian Wendler, PC, Glen Carbon, IL
Expert witness concerning the operation of large road transport vehicles and mechanical systems
- 9/03-present James R. Dowd, St. Louis, IL
Expert witness concerning related to the safe design of mechanical systems.
- 6/01-present Spohrer, Wilner, Jacksonville, FL
Expert witness concerning the operation of large road transport vehicles and mechanical systems
- 10/03-present Harrington Law Firm, Monroe, NC
Expert witness concerning braking systems of large trucks, accident reconstruction
- 9/99-present The Harrison Firm, Brunswick, GA
Expert witness concerning the operation of large road transport vehicles
- 6/99-6/00 Susan E. Loggins & Associates, Chicago, IL
Expert witness concerning the operation of large road transport vehicles.
- 5/99-present Carlson, Wendler & Associates, Attorneys at Law, Edwardsville, Ill.
Expert witness concerning the operation of large road transport vehicles
- 6/99-6/00 Prince, Poole & Cross, Tuscaloosa, AL
Investigate structural integrity and roadability of 1994 Ford Ranger Pickup truck, accident Reconstruction
- 3/98-present Gene Moore, Attorney at Law, Tuscaloosa, AL
Accident reconstruction, mechanical systems expert
- 1986-present Performance Engineering, Tuscaloosa, AL.
Chief engineer for computational and experimental work related to the design, analysis and testing of fluid mechanic devices and power-producing systems.
- 1988-2001 National Institute of Standards and Technology, Office of Energy-Related Inventions, Gaithersburg, Maryland
Consultant to investigate the feasibility of energy-related inventions in particular

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