

George A. Lesieutre Biography



George A. Lesieutre - Class of 1976 - 1958 - Department Head, Penn State University, Professor of Aerospace Engineering B.S., Aero & Astro, Massachusetts Institute of Technology, 1981. Ph.D., Aerospace Engineering, University of California at Los Angeles, 1989.

Technical Expertise Structural dynamics and mechanics of aerospace systems. Passive vibration damping, active structures, piezoelectric actuation, composite materials.

Education Ph.D., Aerospace Engineering, UCLA, 1989. M.S. 1986. (Advisor: D.L. "Tino" Mingori) B.S., Aeronautics and Astronautics, MIT, 1981.

Honors and Awards

2010 Director At-Large, AIAA Board of Directors
2009 Fellow, American Institute of Aeronautics and Astronautics (AIAA)
2009 UCEA Mid-Atlantic Program & Activities Award (Wind Energy)
2008 ASME Best Paper (Adaptive Structures)
2008 AIAA Sustained Service Award
2007 Hirschorn IAC Best Paper Prize (Inst. of Noise Control Eng'g.)
2006 CIC (Big 10) Department Executive Officers Program Fellow
2001 AIAA Zarem Educator Award
2000 ASME Best Paper (AIAA Structures, Structural Dynamics and Materials Conference)
2000 Penn State Engineering Society (PSES) Outstanding Research Award Experience

Experience

The Pennsylvania State University, Department of Aerospace Engineering, 1989-present

SPARTA, Inc., Aerospace Technology, La Jolla and Laguna Hills, CA, 1983-1989

Rockwell International (Boeing), Satellite Systems Division, Seal Beach, CA, 1981-1983

General Motors, Allison Gas Turbines Division, Indianapolis, IN, summers 1979-1980

Argonne Nat'l Laboratory, Energy and Environmental Systems, Argonne, IL, summers 1977-8

LaSalle: Expedition II, Montreal to New Orleans, 1976-1977

Penn State: Professor and Head, Aerospace Engineering, Associate Director of the Center for Acoustics and Vibration. Teach and research in the areas of aerospace systems, structural dynamics, damping, composite structures, finite elements, rotorcraft elastomeric components, shunted piezoelectric materials, actuation for adaptive structures, tunable piezoelectric transducers, energy harvesting, damage modeling, health monitoring, and bio-inspired control. Oversee undergraduate and graduate programs in aerospace engineering.

SPARTA: Director of Space Structures. Developed, managed, and performed research programs involving composite materials and structures for space applications.

Rockwell International: Stress and Dynamics Engineer. Analysis and testing of spacecraft structures, including truss sizing optimization, composite stress analysis, fracture control, design of damping treatments and consideration of control-structure interaction.

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General Motors: GM Scholar. Supported gas turbine engine project groups. Single-stage gasifier for T63/250. Foreign object ingestion of 501/D22F. Reduced emissions combustor.

Argonne National Laboratory: Student Intern. Modeled and optimized engineering and economic performance of solar heating energy storage systems.

LaSalle: Expedition II: Voyageur. Paddled birchbark canoe from Montreal to the Gulf of Mexico during 8-month reenactment of LaSalle's voyage, part of U.S. Bicentennial celebration.

Personal Married, 2 children. Assistant Scoutmaster, Troop 31; advisor for two Philmont treks. Runner, sub-20 5K, sub-3:30 marathon (Boston in '06); bicyclist, two double centuries. Guitarist, singer. Instrument-rated private pilot. U.S. Citizen. SECRET clearance.