



Professor Anthony N. Palazotto

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Distinguished Professor of Aerospace Engineering

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Summary of Experience:

Over forty years of experience in administration, research and education within an Engineering College. Supervised and administered faculty within a departmental division. Developed research efforts and course offerings in composite materials, fracture mechanics and finite element techniques. Highly involved in technical society activity as chairperson and founder of various committees. Author of over four hundred and forty presentations and publications, two hundred and twelve are archival. Co-author of a textbook entitled, "Nonlinear Analysis of Shell Structures," published by AIAA Educational Series, 1992. Registered Professional Engineer - Ohio (initial registration in New York). Delivered invited lectures at a number of academic institutions. Advised 28 PhDs and over one hundred fifty-five MS theses. Fellow of AIAA, AAM, and ASCE. Obtained over \$4.5 million in funded research. Received the Outstanding Engineer and Science Award, April 2011, from the Affiliate Society of Dayton. Became Distinguished Professor of Aerospace Engineering, October, 2011

Work Record:

Air Force Institute of Technology Graduate School of Engineering

WPAFB OH Dayton OH

1975 - Present Professor of Aerospace Engineering

Responsible for the department's offerings and research effort in the field of solid and material mechanics.

Responsibilities include: (1) Director of the Structural and Solid Mechanics Division consisting of five faculty members. (2) Recently elected President of the Faculty Senate (3) Developed and supervised the research for doctoral dissertations and Master of Science theses in the areas of composite materials, fracture mechanics, high energy impact, nonlinear mechanics, vibrations and plates and shells. (3) Taught three to four graduate courses per year specific area of interest (4) Advised the junior faculty in their research and teaching efforts (5) Prepared and supervised the preparation of proposals to obtain research funding (6) Administrative adviser for five graduate classes within the department (7) Member and former Chairman of the Institute's Doctoral Council (8) Former Chairman of the Institute's Promotion and Tenure Committee (9) Former Chairman of the Department's Promotion and Tenure Committee.

In conjunction with my doctoral students, I have developed three different computer programs incorporating a through-the-thickness-compatible nonlinear shell finite element, and both the Lagrangian and Jaumann stress-strain relationships were used. In addition, a finite element program was developed that evaluates the viscoplastic effects at high temperature on crack extension or closure on fatigue loading. Recently work has been

pursued in the area of high velocity impact.

1968 – 1975 University of Bridgeport, Bridgeport, Connecticut, Chaired Professor of Mechanical Engineering
1963 – 1966 University of Connecticut, Stamford, Connecticut, Assistant Professor of Civil Engineering
1955 – 1963 Prior to entering teaching in 1963, I worked as a project engineer on advanced structural analysis for several consulting firms in the New York City area.

Private Practice - I was involved in a part-time consulting engineering practice dealing primarily in the solid mechanics area. The service considered a wide range of problems from fracture failure to large shell structural analysis. I am registered in the state of Ohio.

Education:

- 1.) New York University, School of Engineering and Science, Bronx, NY, Ph.D. (1968)
Major area - Solid Mechanics; Minor - Mathematics
- 2.) Brooklyn Polytechnic Institute, Brooklyn, NY, Master of Science. 1961
- 3.) New York University School of Engineering and Science, Bronx, NY, Bachelor of Civil Engineering 1955

Personal Honors:

1. Outstanding Engineer and Scientist 2011 from the Affiliate Society of Dayton
2. Aerospace Division Structures and Materials Award for exceptional contribution to the advancement of Aerospace Technology in Civil Engineering. 1986 - American Society of Civil Engineering.
3. Hetanyi Award - 1982 - from Society of Experimental Mechanics.
4. Charles J. Cleary - 1981 - Materials Award from U.S. Air Force.
5. AIAA Sustained Service Award – 2004.
6. Fellow in the following engineering societies: AIAA, ASCE, and American Academy of Mechanics
7. Member of Tau Beta Pi - Engineering Honor Fraternity
8. Member of Chi Epsilon - Civil Engineering Honor Fraternity
9. Member of Sigma Gamma Tau – Aerospace Engineering Honor Fraternity
10. Member of Sigma Xi - Research Honor Fraternity
11. University Honors Scholar - N. Y. U.
12. Listed in: Who's Who in Engineering, American Men of Science, and Who's Who in Technology Today.
13. Outstanding Instructor Award; AFIT - 1977, 1978, 1988.

Professional Affiliations:

1. American Soc. of Civil Engineers - Former chairman of Structures and Materials Committee, Member of the Planning Committee, Member of the Advanced Composite Material Committee, Member of Stability Committee, Member of Computational Mechanics Committee, Member and former Chairman of Inelastic Behavior Committee, Member of Structures Committee
2. Society of Computational Mechanics – Member

Editorial Boards:

I am on the editorial boards of the ASCE Aerospace Journal and the Journal of Composite Structures. I have been heavily involved in technical and budgetary considerations for ASCE and AIAA. Assoc. Editor AIAA Journal (1989-1991, 1999-2010).

Publications:

Author of over 440 presentations and publications, including co-author of a textbook entitled, "Nonlinear Analysis of Shell Structures," published by the AIAA Educational Series, 1992