

PETER R. THOM AND ASSOCIATES INC.
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BRENDAN J. O'TOOLE, Ph.D., ASSOCIATE

EXPERIENCE

- Peter R. Thom and Associates Inc., Accident Reconstruction and Failure Analysis, 1994 - Present.
- University of Nevada, Las Vegas, NV, August 1992 - Present, Assistant Professor of Mechanical Engineering. Failure prediction of composite material structures, experimental mechanics, and structural analysis. Lectures in theoretical and experimental mechanics of materials, composite materials, failure analysis, elasticity, dynamics, and design.
- University of Delaware, Newark, DE, September 1986 - August 1992, Research Assistant - Mechanical Engineering Department. Researched the use of new materials and processes in the fabrication of curved beams in aircraft structures, investigated the effect of heterogeneity in composite structures, tested composite beams made from sheet forming and stretch forming, and predicted the failure of curved composite beams. Investigated the effect of elliptical inclusions on crack propagation, characterized crack-inclusion interaction in two-dimensional plates, constructed test models, and determined crack tip stress intensity factors using photoelasticity.
- Toxic and Hazardous Materials Agency (THAMA), Aberdeen Proving Grounds, MD, June 1984 - August 1985, Engineering Technician. Developed a mass flow model for the flow of chemical nerve agents through protective suit material, scheduled plant operations, and inspected pollution control system for a pilot toxic demilitarization plant.

EDUCATION

- Ph.D., Mechanical Engineering, University of Delaware, 1992.
- M.S., Mechanical Engineering, University of Delaware, 1989.
- B.S., Mechanical and Aerospace Engineering, University of Delaware, 1986.

HONORS AND AWARDS

- CSUN Faculty Excellence Award, "Most Outstanding Faculty Instructor in the Howard R. Hughes College of Engineering." Spring 1994.
- Outstanding Teacher Award, Mechanical Engineering Department, University of Nevada, Las Vegas. 1993-1994.
- UNLV University Research Grants and Fellowship Award. May 1993.
- UNLV Barrick Faculty Development Award. May 1993.

ACTIVITIES

- Faculty Advisor, UNLV SAE student chapter
- Treasurer, Silver State Section, American Society of Mechanical Engineers
- Society for the Advancement of Material and Process Engineering (SAMPE)
- American Institute of Aeronautics and Astronautics (AIAA)
- American Society for Engineering Education (ASEE)
- American Society for Composites (ASC)

Brendan J. O'Toole, Ph.D.