



Ronald Earley

Associate Professor

Miami University

Department of Engineering Technology

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EDUCATION:

Post Master of Science Degree – completed course-work and major/minor qualification examinations for Ph.D. Aerospace Engineering, University of Cincinnati – 1974

Master of Science, Aerospace Engineering, University of Cincinnati – 1969

Bachelor of Science, Mechanical Engineering, University of Kentucky – 1965

PROFESSIONAL REGISTRATION:

Registered Mechanical Engineer, Hawaii

Registered Mechanical Engineer, Ohio

ACADEMIC EXPERIENCE:

Associate Professor, Miami University, 1983 – present

Assistant Professor, Miami University, 1978 – 1983

Instructor, Miami University, 1975 – 1978

Adjunct Professor of Engineering Technology, University of Cincinnati, 1975 – present

EMPLOYMENT/CONSULTING/PROFESSIONAL EXPERIENCE:

Shell Oil Company, Full-time Mechanical Engineer, 1965 – 1968

General Electric Aircraft Engine Group, Consulting Heat-transfer Engineer, 1978-1983

Syntech Corporation, Consulting Structural Engineer, 1984 – 1986

Consolidated Metals, Consulting Mechanical Design Engineer, 1994 – 1995

American Fan Company, Consulting Mechanical Design Engineer, 1994 – 1995

Procter & Gamble, Consulting Mechanical Design Engineer, 1996 - present

Engineering Analysis Associates, Partner, 1988 – present

PROFESSIONAL ORGANIZATIONS:

National Society of Professional Engineers, Hawaii Society of Professional Engineers, Ohio Society of Professional Engineers, American Society of Engineering Educators, American Society of Mechanical Engineers, American Institute of Aeronautics and Astronautics

PUBLICATIONS AND PAPERS:

1. Peer-reviewed journals

“Low Solidity Vane Film Effectiveness Cascade Test”, *American Society of Mechanical Engineers Journal* (1969).

“Heat Transfer Characteristics of a Low Thrust Attitude Control System Evaporator” Chemical Engineering Progress Symposium Series, Volume 66, No. 102, 1970, pages 185-198. Authors: Ronald Earley and Widen Tabakoff

“An Approximate Analysis of Gaseous Film Cooling With Constant Fluid Properties” American Society of Mechanical Engineers Transactions of the ASME Journal of Engineering for Power, Paper No. 71-GT-3, 1972, Authors: Ronald Earley and Widen Tabakoff

“Two Dimensional Flow Losses of a Turbine Cascade with Boundary Layer Injection” American Society of Mechanical Engineers Gas Turbine Division, Presented at the Gas Turbine and Fluids Engineering Conference, March 26-30, 1972, San Francisco, Calif. ASME Publication 72-GT-46, Authors: Ronald Earley and Widen Tabakoff

“Experimental Investigation of the Efficiency of a General Electric Particle Separator” General Electric Technical Information Series, 1976, Author: Ronald Earley

“Vane Trailing Edge Pressure Side Bleed Slot Film Effectiveness and Heat Transfer Model Test Project” General Electric Technical Information Series, 1982, Author: Ronald Earley

“Microcomputer Based Parametric Design”, International Journal of Engineering Graphics, 1989, Authors: Ronald Earley and Thomas Boronkay.

2. Peer-reviewed conference proceedings

“Low Solidity Vane Film Effectiveness Cascade Test” American Society of Mechanical Engineers Gas Turbine Division, Presented at the Gas Turbine and Fluids Engineering Conference, March, 1969, Authors: Ronald Earley and Widen Tabakoff

“Heat Transfer Characteristics of a Low Thrust Attitude Control System Evaporator” Eleventh National Combined Heat Transfer Conference American Institute of Chemical Engineers and American Society of Mechanical Engineers, Minneapolis Minnesota, August 3-6, 1969, Preprint 25. Authors: Ronald Earley and Widen Tabakoff

“Microcomputer Based Mechanical Component Parametric Design”, Preprinted for the 35th International Engineering Graphics Conference, Vienna, Austria, 1988, Authors: Ronald Earley and Thomas Boronkay.

“Simulation Software in a Dynamics Laboratory”, American Society for Engineering Education Annual Conference and Exposition, Seattle Washington, June 28 – July 1, 1998. Authors: Ronald Earley and Thomas Boronkay

“Use of Finite Element Analysis in an Introductory Course”, American Society for Engineering Education Annual Conference and Exposition, Seattle Washington, June 28 – July 1, 1998. Author: Ronald Earley

“Application of the Working Model© Software in Mechanical Engineering Technology”, American Society for Engineering Education Annual Conference and Exposition, Charlotte North Carolina, June 20 – 23, 1999. Authors: Ronald Earley, Thomas Boronkay, and Laura Caldwell

“Incorporating Liberal Education Concepts into Engineering Technology Senior Design Course” ASEE National Conference Proceedings 2003 , Co-Authors: Suguna Bommaraju, Ronald Earley, Dave Hergert

“Incorporating Liberal Education Concepts into Engineering Technology Senior Design Course” International Conference on Engineering and Computer Education Proceedings 2003 , Co-Authors: Suguna Bommaraju, Ronald Earley, Dave Hergert

“Early Immersion: High School Students Participating in Engineering Technology Senior Design Projects” ASEE National Conference Proceedings 2003 , Co-Authors: Suguna Bommaraju, Ronald Earley, Dave Campbell, Dave Lenning

“The Use of Computer Software to Enhance the Analysis Within a Mechanisms Course in Mechanical Engineering Technology” ASEE National Conference Proceedings 2006, Author: Ronald Earley

“The Three R’s of Assessment: Recording, Reviewing and Reporting” ASEE National Conference Proceedings 2007, Co-Authors: Ronald Earley(40%), Mysore Narayanan(60%)

“Motivating Students to Engage in Service-Learning” ASEE National Conference Proceedings 2007, Co-Authors: Ronald Earley(40%), Mysore Narayanan(60%)

“Pedagogy for the development of an Instrumentation Laboratory” ASEE National Conference Proceedings 2007, Co-Authors: Ronald Earley(40%), Mysore Narayanan(60%)

“Importance of Engineering Ethics in a College Curriculum” ASEE National Conference Proceedings 2007, Co-Authors: Ronald Earley(40%), Mysore Narayanan(60%)

MAJOR INTEREST AREAS:

Computer integrated engineering and engineering technology analysis and design

Computer-aided instruction for engineering and engineering technology

Fuel cell technology