

***Summary Vita - James R. Cunningham, Ph.D., P.E.
Professor Emeritus, Adjunct Instructor***

Current Rank/Position: Professor Emeritus and Adjunct Instructor, Chemical Engineering, College of Engineering and Computer Science, University of Tennessee at Chattanooga

Years on Faculty: 36 (original appointment 08/73)
State Registered: Tennessee (1975)

Degrees

Louisiana State University	Chemical Engineering	B.S., 1963
University of Florida	Chemical Engineering	M.E., 1970
University of Florida	Chemical Engineering	Ph.D., 1972

Service at The University of Tennessee at Chattanooga

Adjunct Faculty Member– College of Engineering and Computer Science, August 2008 to present

Acting Dean – College of Engineering and Computer Science, July 2007 to July 2008

Professor – College of Engineering and Computer Science, August 1973 to June 2008

Other Related Experience

Post Doctorate Research Associate (NSF) - University of Florida, Chemical Engineering Department, October 1972 to September 1973.

Graduate (Research) Assistant - University of Florida, Chemical Engineering Department, September 1970 to October 1972.

Graduate (Teaching) Assistant - University of Florida, Chemical Engineering Department, September 1968 to September 1969.

Technologist - Shell Chemical Company, Technology Department, Norco, Louisiana, February 1968 to August 1968. July 1963 to January 1964.

Egress Systems Mechanic - Staff Sergeant (E5), United States Air Force, Strategic Air Command, 306 Bomb Wing, Field Maintenance Squadron, McCoy AFB, January 1964 to January 1968

Natural Gas Processing Trainee - Texaco, Inc., Domestic Producing (Gas) Division, New Orleans, Louisiana, July 1963 to January 1964.

Consulting and Patents

Desoto, Inc., Judd Road, Chattanooga, Tennessee, Report Title: Caustic Waste Neutralization, May 1984 to July 1984, Developed the methodology for controlling the pH of wastewater.

Tennessee Valley Authority, Solar Applications Branch, Chattanooga, Tennessee, June 1978 to August 1983, Developed computer models for sunspace performance, trombe wall performance, parameter estimation, natural ventilation and large building performance. Investigated over-heating in closed loop flat plate solar collectors.

Nation Hosiery Mills, Inc., Chattanooga, Tennessee, Report Title: A Hot Water Heating System Utilizing Indirect Cooldown Water, December 1975 to January 1976, Developed a heating system employing the re-use of energy from water warmed during the cooldown of the dye liquor and knitted goods.

Pittsburg Knitting Mills, Inc., South Pittsburg, Tennessee, Report Title: Indirect Cooldown Water Recovery and Condensate Recovery, November 1975 to January 1976, Developed a heating system employing the re-use of water warmed during the cooling of the dye liquor and knitted goods.

Scholze Tannery, Inc., Chattanooga, Tennessee, Sponsor: Tennessee Valley Authority, Division of Environmental Planning, Report Title: Solid Waste Materials Reclamation Study,

September 1974 to February 1975, A survey of the solid wastes at the Scholze Tannery was performed, with recommendations for reclamation. A drying process for the reclamation and re-use of the lime slurry was proposed.
Advanced Waste Management Systems, Hixson, Tennessee. Environmental site surveys in Georgia and Tennessee
Forensic and expert witness projects with local attorneys.

Principal Publications of Last Five Years

None.

Scientific and Professional Society Memberships

American Institute of Chemical Engineers
American Society for Engineering Education
Chattanooga Engineers Club (Past President)
Order of the Engineer
Tau Beta Pi

Honors and Awards

1981-82 Engineering Teacher of the Year
1981-82 Norbert Koch Faculty Service Award
1988-89 Engineering Professor of the Year
1991 Outstanding Engineering Teacher Award
1993-94 Engineering Faculty Award
1994 Cole Outstanding Engineering Teacher Award
1996-97 Outstanding Engineering Faculty Award
1997 Cole Outstanding Engineering Teacher Award
2002-03 Outstanding Engineering Faculty Award
2006 Cole Outstanding Engineering Teacher Award
2006 Faculty of the Year, Joint Council of CECS Student Organizations
2006 Engineer of the Year, Chattanooga Area National Engineers Week

Institutional Service in the Last Five Years (committee assignments, etc.)

Chair of the Engineering Undergraduate Curriculum Committee, 4 years.
Chair of the Engineering Assessment Committee, 5 years.
Member of the Engineering Rank and Tenure Committee, 5 years.
Member of the Physics and Geology Rank and Tenure Committee, 3 years.
Member of the University Undergraduate Curriculum Committee, 3 years.
Member of the Athletics Committee, 3 years.
Member of the University Facilities Use Committee, 5 years.

Professional Service in the Last Five Years

State of Tennessee Water Quality Control, 5 years
Member of the Community Advisory Panel for W. R. Grace, 5 years.

Professional Development Activities in the Last Five Years

Attended instructional retreats on problem-based learning sponsored by UTC Walker Teaching Resource Center, 5 years.
Audited Geology 445 Hydrology (3)
Attended ABET Commission Summit, October 2006.