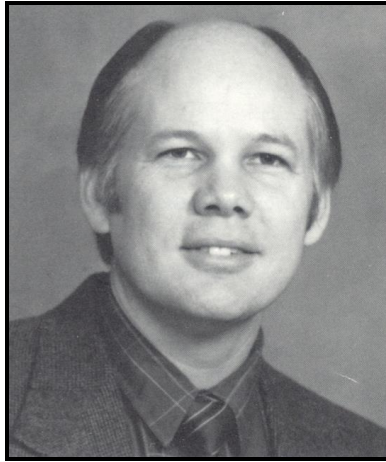


1992 Engineer of Distinction



Steve G. Rochelle

B.S. Engineering Science, TTU, 1972
M.S. Engineering Mechanics, TTU, 1974
Ph.D. Engineering Mechanics, TTU, 1977

Senior Engineering Mechanist
Eastman Chemical Company
Kingsport, Tennessee

Citation

Steve G. Rochelle began his collegiate education at the University of South Alabama, transferring to Tennessee Technological University in 1969. After receiving a bachelor's degree in Engineering Science in 1972, he began his professional career by teaching any engineering course allowed as a graduate assistant, graduate instructor, and special instructor (summers) while working on a master's degree in Engineering Mechanics (1974) and a Ph.D. degree (also in Mechanics). Additionally, he taught calculus in the Mathematics Department his last year in Cookeville. After completing all course work for the Ph.D. degree, he married the former Carolyn Fandrich (B.S. Mathematics/Secondary Education (Math) – 1975, TTU; M.B.A. – 1989, ETSU), moved to Nashville, taught part-time at the University of Tennessee at Nashville at night, and wrote his dissertation during the day.

After submitting the rough draft to a typist, Mr. Rochelle began his industrial career at Tennessee Eastman Company in Kingsport (a subsidiary of Eastman Kodak in Rochester, New York) as an Engineering Mechanicist in the Engineering Mechanics and Vessel Design Group, Engineering Division, in 1976. All degree requirements were met by the June 1977 graduation. In 1983, he was promoted to Senior Engineering Mechanicist in the Engineering Mechanics and Materials Group and moved to the Mechanical Process Technology group in 1987. After working on several projects for the Filter Products Division, he was transferred to the Filter Products' Development and Quality Support department in 1989 as a Senior Development Mechanicist, returning to the MPT group in the Engineering Division in 1991.

Since joining Tennessee Eastman, Mr. Rochelle's work assignments have included heat exchanger expansion joint design, single-screw extruder design, numerical modeling of polymer flows in a rotating annulus, torsional vibration during start-up of synchronous motor-driven compressor systems, carbon bed absorption, and solvent spinning of cellulose acetate filaments (including heat/mass transfer, drawing, lateral deflection, and random sampling of properties/operating conditions for sensitivity studies). Current interests include numerically modeling turbulent air flow inside spinning cabinets, laminar flow pressure loss

prediction of viscous fluids through pipe fittings (e.g., valves and reducers), and network piping modeling of non-Newtonian fluids.

Mr. Rochelle recently served on teams studying low-cost prototype equipment and methods to increase production capacity of existing facilities with minimal capital expense. He has acted as the Company representative in several contracts with Tennessee Tech to obtain scale-model experimental data on turbulence control downstream of wire-screen and/or perforated plate diffusers for an industrial application.

Mr. Rochelle has six public publications coauthored with his academic advisor, John Peddieson, Jr., one public publication coauthored with a former co-worker, three Kodak conference presentations, and over 40 internal company technical reports. He is a member of the Society of Engineering Science, Sigma Xi, NRA, and is a registered professional engineer in Tennessee. He is serving as an officer in his local gun club, sailing club, and as treasurer at church. In the past, he has enjoyed riding touring motorcycles but presently drives a 1968 Triumph TR250 convertible (which doubles the number of wheels on the ground).



1992 Engineers of Distinction Don Rodgers and Steve Rochelle