

CURRICULUM VITAE

Richard L. Parish, PhD, PE
Consulting Engineer
Agricultural and Grounds Maintenance Equipment

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Current Positions:

Louisiana State University, Professor Emeritus, 2008 – Present

Richard L. Parish, PE, LLC, Consultant, 1984 – Present

- Forensic engineering and litigation assistance in cases involving personal injury, product liability, wrongful death, product design and performance, advertising claims, patents, and trade dress infringement in agricultural equipment, lawn and garden equipment, grounds maintenance equipment, forestry equipment, etc.
- Design, development, and testing activities including fertilizer spreaders, cultivators, and toolbars.

Professional Experience:

Employer	Position	Period of appt.
LSU Coastal Area Research Station	Resident Coordinator	2005 - 2008
Louisiana State University	Professor	1988 - 2008
LSU Sweet Potato Research Station	Resident Director	1991 - 1992
Louisiana State University	Associate Professor	1983 - 1988
O.M. Scott and Sons Company	Manager, Mech. R&D	1974 - 1983
University of Arkansas	Associate Professor	1973 - 1974
University of Arkansas	Assistant Professor	1969 - 1973
University of Missouri	NSF Fellow	1967 - 1969
Hesston Corporation	Engineer	summer 1967

Independent consulting projects concurrent with employment by Louisiana State University and the University of Arkansas.

Education:

University of Missouri	BSAE	1/1967
University of Missouri	MSAE	1/1968
University of Missouri	PhD	1/1970

Registration:

Registered Professional Engineer (Ohio -- #E-040521)

RESEARCH AREAS AT LOUISIANA STATE UNIVERSITY

Engineering for commercial landscape and consumer horticulture
Production engineering for horticultural crops
Cultural practices and mechanization for commercial horticultural crops
Mechanization, cultural practices, and operating safety for commercial horticultural crops
Fertilizer and chemical application
Marshgrass transplanting
Sugarcane mechanization
Christmas tree mechanization
Crawfish harvesting
Minimum tillage

RESPONSIBILITIES WHILE EMPLOYED BY O. M. SCOTT AND SONS COMPANY

Managed Mechanical Research and Development Department.
Responsible for all research, design, development, testing, and technical service for a product line with annual sales of up to \$10,000,000.
Provided mechanical engineering technical services for entire company.
Responsible for development of mechanical products for subsidiary company, W. Atlee Burpee.
Served as Project Manager for startup of new spreader manufacturing plant.

RESEARCH AREAS AT THE UNIVERSITY OF ARKANSAS

Development of a cultural system for narrow-row cotton
Seedcotton handling

AWARDS AND HONORS RECEIVED

Doyle Chambers Award for Excellence in Research (LSU AgCenter, 2001)

ITT Quality Award (presented to an average of one employee in 1500, worldwide) -- presented in recognition of work as project manager for startup of a new mechanical manufacturing facility.

O.M. Scott Research Directors' Award -- presented in recognition of work as project manager for startup of a new mechanical manufacturing facility.

O.M. Scott Patent Awards (2)

NSF Fellowship -- support for graduate study at the University of Missouri.

Eagle Scout

Listed in: *Who's Who in the World*
Dictionary of International Biography
Who's Who in America
Who's Who in Science and Engineering
American Men and Women of Science
Who's Who in Finance and Industry
Men of Achievement
Who's Who in the South and Southwest
Who's Who in Technology
International Who's Who of Professionals

PROFESSIONAL AND SERVICE ACTIVITIES

Consulting Editor (Machinery) - *Journal of Vegetable Crop Production* (1992-present)

Associate Editor (Vegetable and fruit production engineering) - *Transactions of ASAE* and *Applied Engineering in Agriculture* (1998-2003)

Agricultural Development Foundation, Ltd. (an organization that supports agricultural missionaries), Board of Directors (1992-present), Vice President (1998-2000), Secretary (2005-present)

Engineering Ministries International (a national organization that provides design services to missionaries) - participated in 10-day design project in Nicaragua, 2002.

American Society of Agricultural and Biological Engineers (ASABE) – Committees

Program Committee, E-1 (1986-1987)

Agricultural Safety Committee, T-2 (1992-1994)

Ergonomics, Safety, and Health Committee, ESH-01 (Formerly T-15) (1994-present)

Standards Approval Subcommittee, ESH-03 (formerly T-15/3) (review new and revised ASAE standards for safety content) (1994-present)

Power and Machinery Division Steering Committee, PM-02 (1983-1984, 1985-1987, 1994-1995, 1999-2001)

Power and Machinery Division Publications Committee, PM-04 (1998-2003)

Power and Machinery Division Technical Coordinating Committee, PM-06 (1982-1983, 1994-1995)

Power and Machinery Division Program Committee, PM-07 (1981-1982, 1984-1987, 1989-1991, 1997-1999), Chairman (1986-1987)

Application Systems Committee, PM-23/6 (formerly PM-41) (1975-1984, 1985-1988, 1995-2007), Chairman (1982-1983), Chairman Fertilizer Appl. Subcommittee (1978-1980), Chairman, Dry Materials Application Subcommittee, PM-41/3 (1996-2000)

Cultural Practices Equipment Committee, PM-42 (1986-2000, 2002-2008), Program Chairman (1989-1991), Vice Chairman (1993-1994), Chairman (1994-1995)

Fruit and Vegetable Production Engineering Committee, PM-48 (1985-1988, 1989-1993, 1996-2008), Vice Chairman (1997-1999), Chairman (1999-2001); liaison to ASHS Production and Harvest Mechanization Working Group (2002-present)

Mechanization of Agricultural Research Committee, PM-54 (1979-1982)

Agricultural Equipment Automation Committee, PM-58 (1970-1973)

Nursery and Greenhouse Mechanization Committee, PM-59 (1977-1984, 1988-1991)

Mid-Central Region, President, Student Branch (1967)

American Society of Agricultural and Biological Engineers (ASABE) – Development of ASAE Standard
Author of latest revision of ASAE Standard S341.3, Procedure for Measuring Distribution Uniformity and Calibrating Granular Broadcast Spreaders and coauthor of two prior versions.

Society of Automotive Engineers (SAE)

National Society of Professional Engineers (NSPE)

Louisiana Engineering Society (LES)

National Association of Professional Accident Reconstruction Specialists (NAPARS)

American Society for Horticultural Science (ASHS)

Production and Harvest Mechanization Working Group

Vegetable Cultural Practices Working Group

Ornamental and Turf Working Group

Southern Region, American Society for Horticultural Science
Chairman, Vegetable Section (1997)

Southern Regional Information Exchange Group on Fruit and Vegetable Mechanization, Vice Chairman
(1989-1990), Chairman (1990-1991)

Louisiana Vegetable Growers Association

Louisiana Turfgrass Association

Registered Professional Engineer

Registered Commercial Pesticide Applicator

Honor societies

Tau Beta Pi

Sigma Xi

Gamma Sigma Delta

Alpha Epsilon

Omicron Delta Kappa

Pi Mu Epsilon

Phi Eta Sigma

REVIEW ACTIVITIES

Served on review panel for USDA SBIR grant program, Washington, DC, 1994.

Reviewed articles for:

Applied Engineering in Agriculture

Biosystems Engineering

Journal of Vegetable Crop Production

Transactions of ASAE

HortTechnology

Journal of Environmental Quality

Louisiana Agriculture

Canadian Agricultural Engineering

Canadian Biosystems Engineering

Soil and Tillage Research

Journal of the Florida State Horticulture Society

Journal of ASTM International

Computers and Electronics in Agriculture

Scientia Agricola

CIGR Ejournal

EXTENSION ACTIVITIES

Served as State Extension Specialist for lawn, garden, and grounds maintenance equipment

Served as State Extension Specialist for commercial vegetable equipment

PUBLICATIONS

Over 100 articles published in refereed journals plus papers presented at meetings, publications in trade journals, and over 200 website extension articles posted at:

<http://www.lsuagcenter.com/en/communications/authors/DParish.htm>

COURSES DEVELOPED AND/OR TAUGHT AT LSU

Agricultural Engineering Courses – College of Engineering

AGE 1248 Production Machinery in Agriculture. General introductory course covering all areas of agricultural engineering.

AGE 1249 Introduction to Agricultural Engineering Design. Developed completely new course based on personal experience in industry. This course offered an introduction to engineering design tools, then provided an opportunity for students to study practical design considerations and carry out a major individual design problem. Developed all materials for this course.

AGE 3104 Proseminar. Senior course for agricultural engineering and agricultural mechanization majors. Emphasis on preparing term papers. Developed new section on engineering law — patents, product liability.

BAE 4190 Senior Engineering Design. Senior capstone design course. Developed entirely new course materials based on my experience in industry.

AGE 7305 Advanced Power and Machinery. Developed completely new course emphasizing practical machine design considerations in industry. Introduced new concepts such as plastics part design, value engineering, cost analysis, and product liability. Provided practical individual and group problems in all areas studied. Based course on personal experience managing product development department in industry.

Agricultural Mechanization Courses – College of Agriculture

AGM 2094, IAT 2094, BAE 2294 Agricultural Chemical Application. Completely revised this course and developed all new lecture notes, homework problems, tests, visual aids, etc. with increased emphasis on granular application and horticultural application. Introduced significant new material based on experience in ag chemical industry and ASAE chemical application committee contacts.

AGM 2066, IAT 2066 Agricultural Field Machinery. Course in basic field machinery with emphasis on selection and management. Developed new course materials including visual aids, handouts, and printed class notes.

AGM 3083 Farm and Power Equipment Sales and Service. Course in management of agricultural, industrial, and lawn and garden equipment dealerships. Includes overall dealership management as well as parts, sales and service management. Developed all course materials including lecture notes, visual aids, homework, tests, handouts. Revised course content to reflect personal experience in farm equipment retailing and manufacturing.