

Awards: Outstanding Young Scientist, American Forage and Grassland Council, 1982
Merit Award, American Forage and Grassland Council, 1991
USDA Point of Light Award, 1991
Young Crop Scientist Award, Crop Science Society of America, 1993
Fellow, American Society of Agronomy, 1995
Raymond and Mary Baker Agronomic Excellence Award, Iowa State Univ., 1996.
Fellow, Crop Science Society of America, 1996.
Senior Research Fellowship, AgResearch Grasslands, New Zealand, 1998.

Current Research: Research involves identifying factors which limit the nutritive value of forages and development of systems for improved utilization of forages. Current research efforts are concentrated on studying species diversity in pastures and its relationship to spatial and temporal variation in available nutrients for grazing livestock, development of complementary grazing systems, and the impact of various legumes grown in mixtures with grasses on forage protein quality and availability.

Teaching Experience:

Courses: Agronomy 105, Crop Production Lab, Purdue University, 1981
Agronomy 422, Forage Quality and Utilization, UIUC, 1984, 1986
Agronomy 400, Crop Production Seminar, UIUC, 1985, 1986
Agronomy 121, Principles of Field Crop Science, UIUC, 1986
Agronomy 493, Applied Experimental Design and Analysis, UIUC, 1987
Agronomy 304, Forage Crops, NMSU, 1988
Agronomy 365, Crop Production, NMSU, 1988
Agronomy 996, Design and Analysis Agronomic Experiments, UNL, 1991
Agronomy 434, Pasture and Grazing Management, ISU, 1993
Agronomy 434, Forage Quality and Utilization, ISU, 1995
Economics/Agronomy 496, Sustainable Agricultural and Economic Development in Costa Rica, ISU, 1997, 2001
Agronomy 526, Field Plot Technique, ISU, 1997- 99, 2000-03.

Other: Chair, Professional Agronomy M.S. Degree Program, ISU, 1995-present

Publications: Journal Articles: 101
Proceedings: 55
Book Chapters: 9
Books: 2
Books Edited: 4
Technical Articles: 62
Multimedia: 3
Abstracts: 154