
CHARLES R. HURBURGH, JR.
Professor
Agricultural and Biosystems Engineering

ASSIGNMENT 71% Research, 29% Extension

EDUCATION

<u>Degree</u>	<u>Institution</u>	<u>Major Field of Study</u>	<u>Dates of Degree</u>
Ph.D.	Iowa State University	Agricultural Engineering	12/81
M.S.	Iowa State University	Agricultural Engineering	2/80
B.S.	Iowa State University	Agricultural Engineering	2/73

PROFESSIONAL EXPERIENCE

<u>Employer</u>	<u>Position</u>	<u>Nature of Position</u>	<u>Location</u>	<u>Dates of Employment</u>
Iowa State Univ.	Professor	Research/Extension	Ames, IA	1/95-present
Iowa State Univ.	Professor	Teaching/Research	Ames, IA	7/91-12/94
Iowa State Univ.	Associate Professor	Teaching/Research	Ames, IA	7/85-6/91
Iowa State Univ.	Assistant Professor	Teaching/Research	Ames, IA	7/82-6/85
Iowa State Univ.	Instructor	Teaching/Research	Ames, IA	6/78-6/82
Iowa State Univ.	Instructor	Teaching	Ames, IA	10/76-5/78
Iowa State Univ.	Graduate Assistant	Research	Ames, IA	4/76-9/76

PROFESSIONAL REGISTRATION

None

PROFESSIONAL AND SCIENTIFIC ORGANIZATIONS

American Society of Agricultural Engineers
 American Society of Cereal Chemists
 Iowa Academy of Science
 Grain Elevator and Processing Society
 American Oil Chemists Society
 American Soybean Association
 Society for Applied Spectroscopy

SIGNIFICANT CONTRIBUTIONS

Teaching - Courses Taught - (1992-96)

AE 469 - Crop Conditioning, Storage, and Processing; AE 569 - Crop Conditioning and Processing; AE 662 - Graduate Seminar; AST 362 - Crop Conditioning and Storage Systems; AST 464 - Grain Process Operations

Research - Peer-Reviewed Publications: (Total 1992-96: 15)

Fox, S.L., L.A. Johnson, **C.R. Hurburgh, Jr.**, and C. Dorsey-Redding. 1992. Relations of grain proximate composition and physical properties to wet-milling characteristics of maize.

Bern, C.J. and **C.R. Hurburgh, Jr.** 1992. Characteristics of fines in corn: A review. Trans. ASAE 35(6):2263.

Meinders, B.L. and **C.R. Hurburgh, Jr.** 1993. Properties of corn screenings. Trans. ASAE 36(3):811.

Hurburgh, C.R., Jr. 1994. Corn quality patterns in U.S. markets. Applied Engr. in Agric. 10(4):515.

Hardy, C.L. and **C.R. Hurburgh, Jr.** 1994. Immunoassay detection of herbicide residues in corn. Cereal Chemistry 71(2):107.

Hurburgh, C.R., Jr. 1994. Component pricing of soybeans at the country elevator. In Component pricing of soybeans. AE-4702. Dept. of Ag. Econ., University of Illinois, Urbana, IL.

Hurburgh, C.R., Jr. 1994. Identification and segregation of high-value soybeans at a country elevator. J. Am. Oil Chemists Soc. 71(10):1073.

Hurburgh, C.R., Jr. 1994. Long-term soybean composition patterns and their effect on processing. J. Am. Oil Chemists Soc. 71(12):1425.

Hurburgh, C.R., Jr., Cristina Lang, Jeff Buresh and Glen Rippke. 1994. Measuring the costs and benefits of cleaning soybeans. Final report of Spec. Coop. Agreement 43-3AEK-80139. Economic Research Service, USDA, Washington, D.C.

Siska, J. and **C.R. Hurburgh, Jr.** 1994. Prediction of Wisconsin Breakage Tester breakage susceptibility of corn from bulk density and NIRS. Trans. ASAE 37(5):1577.

Hurburgh, C.R., Jr. 1995. An engineering economic model of corn cleaning. Applied Engineering in Agriculture 11(4):539-547.

Siska, J. and **C.R. Hurburgh, Jr.** 1995. Corn density measurement by near-infrared transmittance. Trans. ASAE 38(6):1821-1824.

Hurburgh, C.R., Y. Wu, and J. Siska. 1995. Effect of seed size and density on near-infrared transmittance analysis of corn and soybeans.

Applied Engr. in Agric. 11(5):677-684.

Hurburgh, C.R., Jr. 1996. U.S. soybean quality related to costs and benefits of soybean cleaning. Applied Engr. in Agric. 12(3):379-382.

Hurburgh, C.R., Jr., J. Buresch, G. Rippke. 1996. Aspiration cleaning of soybeans. Applied Engr. in Agric. 12(5):585-586.