

**Superior Paper Award Winners
1995 - 2020**

1995 presented 1996

F.A. PAYNE

Automatic Control of Coagulum Cutting in Cheese Manufacturing
APPLIED ENGINEERING in AGRICULTURE, Vol. 11, No. 5

D.D. JONES, M.F. KOCHER

Auger Design for Uniform Unloading of Granular Material: I. Rectangular Cross- Section Containers
TRANSACTIONS of the ASAE, Vol. 38, No. 4

V. ROS, R.J. SMITH, S.J. MARLEY, D.C. ERBACH

Mathematical Modeling and Computer- Aided Design of Passive Tillage Tools
TRANSACTIONS of the ASAE, Vol 38, No. 3

M. BENADY J.E. SIMON, D.J. CHARLES, G.E. MILES

Fruit Ripeness Determination by Electronic Sensing of Aromatic Volatiles
TRANSACTIONS of the ASAE, Vol. 38, No. 1

N.L. BUCK, G.P. GROFF

Determining the Thickness of Layers of Materials by Dielectric-Constant Measurements
TRANSACTIONS of the ASAE, Vol. 38, No. 6

D.K. GILES, J. GARDNER, H.E. STUDER

Mechanical Release of Predacious Mites for Biological Pest Control in Strawberries
TRANSACTIONS of the ASAE, Vol. 38, No. 5

Q. ZHANG, M.G. BRITTON

Predicting Hygroscopic Loads in Grain Storage Bins
TRANSACTIONS of the ASAE, Vol. 38, No. 4

T.J. TROUT, R.E. SOJKA, R.D. LENTZ

Polyacrylamide Effect on Furrow Erosion and Infiltration
TRANSACTIONS of the ASAE, Vol. 38, No. 3

L.G. SCHUMACHER, S.C. BORGELT, W.G. HIRES

Fueling a Diesel Engine with Methyl- Ester Soybean Oil
APPLIED ENGINEERING IN AGRICULTURE, Vol. 11, No. 1

H. RAMON, J. DE BAERDEMAEKER

Using Principal Gains for Evaluating and Optimizing the Performance of Sprayers
TRANSACTIONS of the ASAE, Vol. 38, No. 5

1996 presented 1997

B. Park, Y.R. Chen

Multispectral Image Co-Occurrence Matrix Analysis for Poultry Carcasses Inspection

TRANSACTIONS of the ASAE, Vol. 39, No. 4

R.W. Claycomb, M.J. Delwiche, C.J. Munro, R.H. BonDurant

Enzyme Immunoassay for On-Line Sensing of Milk Progesterone

TRANSACTIONS of the ASAE, Vol. 39, No. 2

X.C. Zhang, M.A. Nearing, L.M. Risse, K.C. McGregor

Evaluation of WEPP Runoff and Soil Loss Predictions Using Natural Runoff Plot Data TRANSACTIONS of the ASAE, Vol. 39, No. 3

K. Chao, R.S. Gates

Design of Switching Control Systems for Ventilated Greenhouses

TRANSACTIONS of the ASAE, Vol. 39, No. 4

T.G. Franti, G.R. Foster, E.J. Monke

Modeling the Effects of Incorporated Residue on Rill Erosion Part II: Experimental Results and Model Validation

TRANSACTIONS of the ASAE, Vol. 39, No. 2

W.H. Yang, S. Cenkowski, H.S. Wang

Microwave-Enhanced Denaturation of Sugar Beet Tissues

TRANSACTIONS of the ASAE, Vol. 39, No. 3

G.D. Williams, D.R. Bohnhoff, R.C. Moody

Locating Butt-Joints in Four-Layer, Nail-Laminated Assemblies

TRANSACTIONS of the ASAE, Vol. 39, No. 2

H. Xin, I.L. Berry, G.T. Tabler

Minimum Ventilation Requirement and Associated Energy Cost for Aerial Ammonia in Broiler Houses

TRANSACTIONS of the ASAE, Vol. 39, No. 2

H. Xin, K. Lee

Use of Aqua-Jel. and Feed for Nutrient Supply During Long Journey Air Transport of Baby Chicks

TRANSACTIONS of the ASAE, Vol. 39, No. 3

T.G. Franti, G.R. Foster, E.J. Monke

Modeling the Effects of Incorporated Residue on Rill Erosion Part I: Model Development and Sensitivity Analysis

TRANSACTIONS of the ASAE, Vol. 39, No. 2

1997 presented 1998

D.K. GILES, D.C. SLAUGHTER

Precision Band Spraying with Machine-Vision Guidance and Adjustable Yaw Nozzles

TRANSACTIONS of the ASAE, Vol. 40, No. 1

D.E. RESSLER, R. HORTON, J.L. BAKER, T.C. KASPAR

Testing a Nitrogen Fertilizer Applicator Designed to Reduce Leaching Losses

E.T. WEATHERLY, C.G. BOWERS, JR.

Automatic Depth Control of a Seed Planter Based on Soil Drying Front Sensing
TRANSACTIONS of the ASAE, Vol. 40, No. 2

T.L. FOUTZ, G.N. ROWLAND, M. EVANS

An Avian Modeling Approach for Analyzing Modeling and Analysis of Mixed-Flow
Bone Loss Due to Disuse
TRANSACTIONS of the ASAE, Vol. 40, No. 6

M.P. ZEIGLER, H.B. MANBECK, W.B. ROUSH

Sources of Variance in Feed Distribution Systems
TRANSACTIONS of the ASAE, Vol. 40, No. 2

R.H. ZHANG, P.N. DUGBA, D.S. BUNDY

Laboratory Study of Surface Aeration of Anerobic Lagoons for Odor Control of Swine Manure
TRANSACTIONS of the ASAE, Vol. 40, No. 1

M.A. BREVE, R.W. SKAGGS, J.E. PARSONS, J.W. GILLIAM

DRAINMOD-N, A Nitrogen Model for Artificially Drained Soils
TRANSACTIONS of the ASAE, Vol. 40, No. 4

Q. LIU, C. CAO, F.W. BAKKER- ARKEMA

Modeling and Analysis of Mixed Flow Grain Dryer
TRANSACTIONS of the ASAE, Vol. 40, No. 4

1998 presented 1999

D.C. YODER, J.B. WILKERSON, J.R. BUCHANAN, K.J. HURLEY, R.E. YODER

Development and Evaluation of a Device to Control Time Varying Flows
TRANSACTIONS of the ASAE, Vol. 41, No. 2

Y. TAO

Closed-loop Search Method for On-Line Automatic Calibration of Multi-camera Inspection Systems
TRANSACTIONS of the ASAE, Vol. 41, No. 5

Q. ZHANG, X. BU, M.G. BRITTON

An Analytical Model for Predicting Stresses in Grain Storage Bins
TRANSACTIONS of the ASAE, Vol. 41, No. 6

R. BAJEMA, G.M. HYDE, K. PETERSON

Precision Farming with Kinematic GPS Instrumentation Design for Dynamic Axial Compression of
Cylindrical Tissue Samples
TRANSACTIONS of the ASAE, Vol. 41, No. 3

T.D. GLANVILLE, J.L. BAKER, J.K. NEWMAN

Evaluation of Methods for Diagnosing Contamination in Rural Wells

TRANSACTIONS OF THE ASAE, Vol. 41, No. 6

K.M. ROBINSON, C.E. RICE, K.C. KADAVY

Design of Rock Chutes

TRANSACTIONS of the ASAE, Vol. 41, No. 3

N. GALILI, I. SHMULEVICH, N. BENICHO

Acoustic Testing of Avocado for Fruit Ripeness Evaluation

TRANSACTIONS of the ASAE, Vol. 41, No. 2

R.L. CLARK, R. LEE

Development of Topographic Maps for Precision Farming with Kinematic GPS

TRANSACTIONS of the ASAE, Vol. 41, No. 4

1999 presented 2000

G.J. Riley, K.G. Gebremedhin

Axial and Rotational Stiffness Model of Metal-Plate-Connected Wood Truss Joints

TRANSACTIONS of the ASAE, Vol. 42, No. 3

J.G. Ibarra, Y. Tao, J. Walker, C. Griffis

Internal Temperature of Cooked Chicken Meat Through Infrared Imaging and Time Series Analysis

TRANSACTIONS of the ASAE, Vol. 42, No. 5

J. Arogo, R.H. Zhang, G.L. Riskowski, D.L. Day

Mass Transfer Coefficient for Hydrogen Sulfide Emission From Aqueous Solutions and Liquid Swine Manure

TRANSACTIONS of the ASAE, Vol. 42, No. 5

H. Zhou, H. Xin

Effects of Heat Lamp Output and Color on Piglets at Cool and Warm Environments

TRANSACTIONS of the ASAE, Vol. 15, No. 4

L. Tian, J.F. Reid, J.W. Hummel Development of a Precision Sprayer for Site-Specific Weed Management

TRANSACTIONS of the ASAE, Vol 42 No. 4

R.R. Ruan, Z. Long, K. Chang, P.L. Chen, I.A. Taub

Glass Transition Temperature Mapping Using Magnetic Resonance Imaging

TRANSACTIONS of the ASAE, Vol 42 No. 4

S. Kang, S.R. Delwiche

Moisture Diffusion Modeling of Wheat Kernels During Soaking

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A. Bechar, I. Shmulevich, D. Eisikowitch, Y. Vaknin, B. Ronen, S. Gan-Mor

Modeling and Experiment Analysis of Electrostatic Date Pollination

TRANSACTIONS of the ASAE, Vol.42, No. 6

2000 presented 2001

W.C. HOFFMANN, H.H.TOM

Effects of Lowering Spray Boom in Flight on Swath Width and Drift
APPLIED ENGINEERING IN AGRICULTURE Vol. 16, No. 3

A. MILLMIER, J. LORIMOR, C. HURBURGH, JR., C. FULHAGE, J. HATTEY, H. ZHANG Near-Infrared Sensing of Manure Nutrients

TRANSACTIONS of the ASAE Vol. 43, No. 4

H.M. KEENER, D.L. ELWELL, M.J. MONNIN

Procedures and Equations for Sizing of Structures and Windrows for Composting Animal Mortalities
APPLIED ENGINEERING in AGRICULTURE Vol. 16, No. 6

A. AL-FARAJ, G.E. MEYER, G.R. SCHADE, G.L. HORST

Dynamic Analysis of Moisture Stress in Tall Fescue (*Festuca Arundinacea*) Using Canopy Temperature, Irradiation, and Vapor Deficit
TRANSACTIONS of the ASAE Vol. 43, No. 1

D.L. BJORNEBERG, J.K. AASE, D.T. WESTERMANN

Controlling Sprinkler Irrigation Runoff, Erosion and Phosphorus Loss with Straw and Polyacrylamide
TRANSACTIONS of the ASAE Vol. 43, No. 6

J.N. IKEDIALA, J. TANG, T. WIG

A Heating Block System for Studying Thermal Death Kinetics of Insect Pests
TRANSACTIONS of the ASAE Vol. 43, No. 2

B.J. HE, Y. ZHANG, Y. YIN, T.L. FUNK G.L. RISKOWSKI

Operating Temperature and Retention Time Effects on the Thermochemical Conversion Process of Swine Manure
TRANSACTIONS of the ASAE Vol. 43, No. 6

A. SRIWATANAPONGSE, M. BALABAN, A. TEIXEIRA

Thermal Inactivation Kinetics of Bromelain in Pineapple Juice
TRANSACTIONS of the ASAE Vol. 43, No. 6

2001 presented 2002

N. SCHEERLINCK, P. VERBOVEN, K.A. FIKIIN, J. DE BAERDEMAEKER,

B.M. NICOLAÚ

Finite Element Computation of Unsteady Phase Change Heat Transfer During Freezing or Thawing of Food Using a Combined Enthalpy and Kirchhoff Transform Method
TRANSACTIONS OF THE ASAE Vol. 44, No. 2

S. ZOLNIER, R.S. GATES, R.G. ANDERSON S.E. NOKES, G.A. DUNCAN

Non-Water-Stressed Baseline as a Tool for Dynamic Control of a Misting System for Propagation of Poinsettias
TRANSACTIONS of the ASAE Vol. 44, No. 1

V.I. ADAMCHUK, M.T. MORGAN, H. SUMALI

Application of a Strain Gauge Array to Estimate Soil Mechanical Impedance On-The Go
TRANSACTIONS of the ASAE Vol. 44, No. 6

T.C. PEARSON

Detection of Pistachio Nuts with Closed Shells Using Impact Acoustics
APPLIED ENGINEERING IN AGRICULTURE Vol. 17, No. 2

M.D. SCHROCK, J.J. GRIMM, D.L. OARD R.K. TAYLOR, T.C. KOLB, J.D. ANDERSON Performance of a
Multipoint Pulse-Width Modulation Metering System for Ammonia
TRANSACTIONS of the ASAE Vol. 44, No. 2

B. PANNETON, R. THÉRIAULT, B. LACASSE

Efficacy Evaluation of a New Spray-Recovery Sprayer for Orchards
TRANSACTIONS of the ASAE Vol. 44, No. 3

A. LUO, J. ZHU, P.M. NDEGWA

Phosphorus Transformations in Swine Manure During Continuous and Intermittent Aeration Processes
TRANSACTIONS of the ASAE Vol. 44, No. 4

Y. SHI, D.B. PARKER, N.A. COLE, B.W. AUVERMANN, J.E. MEHLHORN

Surface Amendments to Minimize Ammonia Emissions from Beef Cattle Feedlots
TRANSACTIONS of the ASAE Vol. 44, No. 3

T.E. GRIFT, J.T. WALKER, J.W. HOFSTEE

Mass Flow Measurement of Granular Materials in Aerial Application – PART 2: Experimental
Model Validation
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2002 presented 2003

R.D. LAMM, D.C. SLAUGHTER, D.K. GILES

Precision Weed Control System for Cotton
TRANSACTIONS OF THE ASAE Vol. 45, No. 1

C.-C. JIA, W. YANG, T.J. SIEBENMORGEN, R.C. BAUTISTA, A.G. CNOSSEN

A Study of Rice Fissuring by Finite-Element Simulation of Internal Stresses Combined with
High-Speed Microscopy Imaging of Fissure Appearance TRANSACTIONS
OF THE ASAE Vol. 45, No. 3

T.E. GRIFT, J.W. HOFSTEE

Testing an Online Spread Pattern Determination Sensor on a Broadcast Fertilizer Spreader
TRANSACTIONS OF THE ASAE Vol. 45, No. 3

M. KACIRA, P.P. LING, T.H. SHORT

Machine Vision Extracted Plant Movement for Early Detection of Plant Water Stress
TRANSACTIONS OF THE ASAE Vol. 45, No. 4

S. MONGPRANEET, T. ABE, T. TSURUSAKI

Far Infrared - Vacuum and - Convection Drying of Welsh Onion

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Y.M. BAE, S.I. CHO

Response of Polymer Membranes as Sensing Elements for an Electronic Tongue

TRANSACTIONS OF THE ASAE Vol. 45, No. 5

A.C. SHETH, A.D. TURNER

Kinetics and Economics of Catalytic Steam Gasification of Broiler Litter

TRANSACTIONS OF THE ASAE Vol. 45, No. 4

A.J. BUKTA, K. SAKAI, A. SASAO, S. SHIBUSAWA

Free Play as a Source of Nonlinearity in Tractor-Implement Systems During Transport

TRANSACTIONS OF THE ASAE Vol. 45, No. 3

2003 presented 2004

S. WANG, J. TANG, R. CAVALIERI, D. DAVIS

Differential Heating of Insects in Dried Nuts and Fruits Associated with Radio Frequency and

Microwave Treatments TRANSACTIONS OF THE ASAE Vol. 46, No. 4

M. VANOTTI, A. SZOGI, P. HUNT

Extraction of Soluble Phosphorus From Swine Wastewater

TRANSACTIONS OF THE ASAE Vol. 46, No. 6

J. BONTA, F. PIERSON

Design, Measurement, and Sampling with Drop-Box Weirs

APPLIED ENGINEERING IN AGRICULTURE Vol. 19, No. 6

C. AGUIRRE, K. HAGHIGHI

Stochastic Finite Element Analysis of Transient Unsaturated Flow in Porous Media

TRANSACTIONS OF THE ASAE Vol. 46, No. 1

R. LU

Detection of Bruises on Apples Using Near-Infrared Hyperspectral Imaging

TRANSACTIONS OF THE ASAE Vol. 46, No. 2

K. ARORA, S. MICKELSON, J. BAKER

Effectiveness of Vegetated Buffer Strips in Reducing Pesticide Transport in Simulated Runoff

TRANSACTIONS OF THE ASAE Vol. 46, No. 3

K. GILLIS, D. KEN GILES, D. SLAUGHTER, D. DOWNEY

Injection Mixing System for Boomless, Target-Activated Herbicide Spraying

TRANSACTIONS OF THE ASAE Vol. 46, No. 4

J. SUTTLES, G. VELLIDIS, D. BOSCH, LOWRANCE, J. SHERIDAN, E. USERY

Watershed-Scale Simulation of Sediment and Nutrient Loads in Georgia Coastal Plain Streams Using the Annualized AGNPS Model

2004 presented 2005

R. SIVAKESAVA, J. IRUDAYARAJ, C. DEBROY

Differentiation of Microorganisms by FTIR-ATR and NIR Spectroscopy

TRANSACTIONS of the ASAE Vol. 47, No. 3

J. CHAPLIN, N. HEMMING, B. HETCHLER

Comparison of Impact Plate and Torque- Based Grain Mass Flow Sensors

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M.C. SIEMENS, D.E. WILKINS, R.F. CORREA

Development and Evaluation of a Residue Management Wheel For Hoe-Type No-Till Drills

TRANSACTIONS of the ASAE Vol. 47, No. 2

M.H. NICHOLS

A Radio Frequency Identification System for Monitoring Coarse Sediment Particle Displacement

APPLIED ENGINEERING IN AGRICULTURE Vol. 20, No. 6

H.Y. JEON, A.R. WOMAC, J. GUNN

Sprayer Boom Dynamic Effects on Application Uniformity

TRANSACTIONS of the ASAE Vol. 47, No. 3

T.M. BROWN-BRANDL, J.A. NIENABER H. XIN, R.S. GATES

A Literature Review of Swine Heat Production

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D.K. GILES, D. DOWNEY, D.C. SLAUGHTER J.C. BREVIS-ACUNA, W.T. LANINI

Herbicide Micro-Dosing for Weed Control in Field-Grown Processing Tomatoes

APPLIED ENGINEERING IN AGRICULTURE Vol. 20, No. 6

J.W. JONES, W.D. GRAHAM, D. WALLACH W.M. BOSTICK, J. KOO

Estimating Soil Carbon Levels Using an Ensemble Kalman Filter

TRANSACTIONS OF THE ASAE Vol. 47, No. 1

K.E. PERSYN, H. XIN, D. NETTLETON, A. IKEGUCHI, R.S. GATES

Feeding Behaviors of Laying Hens With or Without Beak Trimming

TRANSACTIONS of the ASAE Vol. 47, No. 2

2005 presented 2006

E.D. VORIES, P.L. TACKER, R. HOGAN

Multiple Inlet Approach to Reduce Water Requirements for Rice Production

APPLIED ENGINEERING IN AGRICULTURE Vol. 21, No. 4

D. BRABEC, R. MAGHIRANG, M. CASADA, E. HAQUE

Characterization and Modeling of a High-Pressure Water-Fogging System for Grain Dust Control

TRANSACTIONS OF THE ASABE Vol. 48 (1)

A. AMÉZQUITA, L. WANG, C.L. WELLER

Finite Element Modeling and Experimental Validation of Cooling Rates of Large Ready-to Eat Meat Products in Small Meat-Processing Facilities
TRANSACTIONS OF THE ASABE Vol. 48, No. 1

L.D. JACOBSON, H. GUO, D.R. SCHMIDT, R.E. NICOLAI, J. ZHU, K.A. JANNI

Development of the OFFSET Model for Determination of Odor-Annoyance-Free Setback Distances From Animal Production Sites: Part I. Review and Experiment
TRANSACTIONS OF THE ASABE Vol. 48, No. 6

J. WEI, F. ROVIRA-MAS, J.F. REID, S. HAN

Obstacle Detection Using Stereo Vision to Enhance Safety of Autonomous Machines
TRANSACTIONS OF THE ASABE Vol. 48, No. 6

X.-L. SU, Y. LI

Surface Plasmon Resonance and Quartz Crystal Microbalance Immunosensors For Detection of ESCHERICHIA COLI O157:H7
TRANSACTIONS OF THE ASABE Vol. 48, No. 1

G.J. HANSON, K.R. COOK, S.L. HUNT

Physical Modeling of Overtopping Erosion and Breach Formation of Cohesive Embankments
TRANSACTIONS OF THE ASABE Vol. 48, No. 5

W. YUAN, A.C. HANSEN, M.E. TAT, J.H. VAN GERPEN, Z. TAN

Spray, Ignition, and Combustion Modeling of Biodiesel Fuels for Investigating NOX Emissions
TRANSACTIONS OF THE ASABE Vol. 48, No. 3

K.G. GEBREMEDHIN, B. WU, C. GOOCH, P. WRIGHT, S. INGLIS

Heat Transfer Model for Plug-Flow Anaerobic Digesters
TRANSACTIONS OF THE ASABE Vol. 48, No. 2

2006 presented 2007

Y. DING, K.C. DAS, W.B. WHITMAN, J.R. KASTNER

Enhanced Biofiltration of Hydrogen Sulfide in the Presence of Methanol and Resultant Bacterial Diversity
APPLIED ENGINEERING IN AGRICULTURE Vol. 49, No. 6

D.-Y. CHEONG, C.L. HANSEN

Feasibility of Hydrogen Production from Anaerobic Mixed Fermentation
TRANSACTIONS OF THE ASABE Vol. 49, No. 2

B.B. HE, A.P. SINGH, J.C. THOMPSON

A Novel Continuous-Flow Reactor Using Reactive Distillation Technique for Biodiesel Production
TRANSACTIONS OF THE ASABE Vol. 49, No. 1

F. ROVIRA-MÁS, J.F. REID, Q. ZHANG

Development of the OFFSET Model for Determination of Odor-Annoyance-Free Setback Distances From Animal Production Sites: Part I. Review and Experiment

TRANSACTIONS OF THE ASABE Vol. 49, No. 1

D. DOWNEY, T.G. CROWE, D.K. GILES, D.C. SLAUGHTER

Direct Nozzle Injection of Pesticide Concentrate Into Continuous Flow for Intermittent Spray Applications

TRANSACTIONS OF THE ASABE Vol. 49, No. 4

M.T. VENEM, J.M. SHUTSKE, W.J. GILBERT

Testing and Creation of a Safety System to Disengage the PTO of a Tractor

APPLIED ENGINEERING IN AGRICULTURE Vol. 22, No. 1

R.D. HARMEL, R.J. COOPER, R.M. SLADE, R.L. HANEY, J.G. ARNOLD

Cumulative Uncertainty in Measured Streamflow and Water Quality Data for Small Watersheds

TRANSACTIONS OF THE ASABE Vol. 49, No. 3

A.V. VAN WAGENBERG, C.M.C. VAN DER PEET-SCHWERING, G.P. BINNENDIJK, P.J.P.W. CLAESSEN

Effect of Floor Cooling on Farrowing Sow and Litter Performance: Field Experiment Under Dutch Conditions

TRANSACTIONS OF THE ASABE Vol. 49, No. 5

J.A. SORENSEN, J.J. MAY, P.L. JENKINS, A.M. JONES, G.B. EARLE- RICHARDSON

Risk Perceptions, Barriers, and Motivators to Tractor ROPS Retrofitting in the New York State Farm Community

JOURNAL OF AGRICULTURAL SAFETY AND HEALTH Vol. 12, No. 3

2007 presented 2008

R. S. COMER, P. D. AYERS, J. LIU

Evaluation of Engineering Plastic for Rollover Protective Structure (ROPS) Mounting

JOURNAL OF AGRICULTURAL SAFETY AND HEALTH Vol. 13, No. 2

P. LIBERATI, P. ZAPPAVIGNA

A Dynamic Computer Model for Optimization of the Internal Climate in Swine Housing Design

TRANSACTIONS OF THE ASABE Vol. 50, No. 6

A MIZRACH, Z. SCHMILOVITCH, R. KOROTIC, J. IRUDAYARA J, R. SHAPIRA

Yeast Detection in Apple Juice using Raman Spectroscopy and Chemometric Methods TRANSACTIONS OF THE ASABE Vol. 50, No. 6

A. A. SZÖGI, M.B. VANOTTI

Abatement of Ammonia Emissions from Swine Lagoons Using Polymer-Enhanced Solid-Liquid Separation

APPLIED ENGINEERING IN AGRICULTURE Vol. 23, No. 6

B. PARK, S. C. YOON, K. C. LAWRENCE, W. R. WINDHAM

Fisher Linear Discriminate Analysis for Improving Fecal Detection Accuracy with Hyperspectral Images

TRANSACTIONS OF THE ASABE Vol. 50, No. 6

J. ENCISO-MEDINA, P. D. COLAIZZI, W. L. MULTER, C. R. STICKLER

Cotton Response to Phosphorus Fertilization Using Subsurface Drip Irrigation

APPLIED ENGINEERING IN AGRICULTURE Vol. 23, No. 3

**K. J. SHINNERS, G. S. ADSIT, B. N. BINVERSIE, M. F. DIGMAN, R. E. MUCK,
P. J. WEIMER**

Single-Pass, Split-Stream Harvest of Corn Grain and Stover

TRANSACTIONS OF THE ASABE Vol. 50, No. 2

D. L. BJORNEBERG, C. J. PRESTWICH, R. G. EVANS

Evaluating the Surface Irrigation Soil Loss (SISL) Model

APPLIED ENGINEERING IN AGRICULTURE Vol. 23, No. 4

M. E. TAT, J. H. VAN GERPEN, P.S. WANG

Fuel Property Effects on Injection Timing, Ignition Timing, And Oxides of Nitrogen Emissions from Biodiesel-Fueled Engines

TRANSACTIONS OF THE ASABE Vol. 50, No. 4

2008 presented 2009

**M. L. SARPOLA, R. K. PAASCH, E. N. MORTENSEN, T. G. DIETTERICH, D. A. LYTLE,
A. R. MOLDENKE, L. G. SHAPIRO**

An Aquatic Insect Imaging System to Automate Insect Classification

TRANSACTIONS OF THE ASABE Vol. 51, No. 6

P. ANDRADE-SANCHEZ, S. K. UPADHYAYA, C. PLOUFFE, B. POUTRE

Development and Field Evaluation of a Field-Ready Soil Compaction Profile Sensor for Real-Time Applications

APPLIED ENGINEERING IN AGRICULTURE Vol. 24, No. 6

R. SUI, J.A. THOMASSON, Y. GE, C. MORGAN

Multispectral Sensor For In-Situ Cotton Fiber Quality Measurement

TRANSACTIONS OF THE ASABE Vol. 51, No. 6

J. L. PURSWELL, B. K. FRITZ, S. L. BRANTON, S.A. LEIGH

Effects of System Pressure and Nozzle Type on Spray Application of Avian Vaccines

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S. BALASUBRAMANIAN, V. M. PURI

Fouling Mitigation During Product Processing Using a Modified Plate Heat Exchange Surface

TRANSACTIONS OF THE ASABE Vol. 51, No. 2

C. S. RENSCHLER, D. C. FLANAGAN

Site-Specific Decision-Making Based on RTK GPS Survey and Six Alternative Evaluation Data Sources: Soil Erosion Predictions

TRANSACTIONS OF THE ASABE Vol. 51, No. 2

C. SHIH, Z. PAN, T. MCHUGH, D. WOOD, E. HIRSCHBERG

Sequential Infrared Radiation and Freeze-Drying Method for Producing Crispy Strawberries

TRANSACTIONS OF THE ASABE Vol. 51, No. 1

E. A. PAPPAS, R. S. KANWAR, J. L. BAKER, J. C. LORIMOR, S. MICKELSON

Fecal Indicator Bacteria in Subsurface Drain Water Following Swine Manure Application

TRANSACTIONS OF THE ASABE Vol. 51, No. 5

J. H. LUMKES JR., W. VAN DOORN IV

Design and Testing of a Dual-Path Front Hydrostatic Drive-By-Wire Control System for an Off-Road Vehicle

TRANSACTIONS OF THE ASABE Vol. 51, No. 4

2009 presented 2010

J.E. WOLFE III, O.T. LIND, D.W. HOFFMAN

A Constant-Volume Artificial Stream for Reducing Variation in Aquatic Process Measurements

TRANSACTIONS OF THE ASABE Vol. 52, No. 1

X. WANG, P. AYERS, A.R. WOMAC

Static Simulation and Analyses of Mower's ROPS Behavior In a Finite Element Model JOURNAL OF AGRICULTURAL SAFETY AND HEALTH Vol. 15, No. 4

K.S. LEE, D.H. LEE, K.A. SUDDUTH, S.O. CHUNG, N.R. KITCHEN, S.T. DRUMMOND

Wavelength Identification and Diffuse Reflectance Estimation for Surface and Profile Soil Properties

TRANSACTIONS OF THE ASABE Vol. 52, No. 3

S.J. THOMSON, L.A. SMITH, J.E. HANKS

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2010 presented 2011

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2011 presented 2012

B. SHARMA, C. L. JONES, A. KHANCHI

Tensile Strength and Shear Strength of Switchgrass Before and After Frost
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Evaluating the Protective Capacity of Two-Post ROPS for a Seat-Belted Occupant During a Farm Tractor Overturn

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2012 presented 2013

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Establishing the Need for an Engineering Standard for Agricultural Hitch Pins
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Advanced Oxidation of Toluene Using Ni-Olivine Catalysts: Part 1. Synthesis, Characterization, and

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Impact of Pelleting and Acid Pretreatment on Biomass Structure and Thermal Properties of Wheat
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2013 presented 2014

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2014 presented 2015

N. NAHAR, R. RORICK, S.W. PRYOR

Effects of Enzyme and Solids Loading on Sugar Beet Pulp Hydrolysis:

BIOLOGICAL ENGINEERING TRANSACTIONS Vol. 7, No. 1

B. PARK, W.R. WINDHAM, S.R. LADELY, P. GURRAM, H. KWON, S.C. YOON, K.C. LAWRENCE, N. NARANG, W.C. CRAY

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Effect of Measurement Density on Characterizing Air Velocity Distribution in Commercial Broiler Houses
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Heat and Moisture Production Rates of a Modern U.S. Swine Breeding, Gestation, and Farrowing Facility
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Sediment Loss and Runoff from Cropland in a Southeast Atlantic Coastal Plain Landscape
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Evaluation of CSM-CROPGRO-Cotton for Simulating Effects of Management and Climate Change on Cotton Growth and Evapotranspiration in an Arid Environment
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B.J. CZARTOSKI, N.R. FAUSEY, L.C. BROWN**

Crop Yield Summary for Three Wetland Reservoir Subirrigation Systems in Northwest Ohio
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G.A. MOSHER, N. KEREN, S.A. FREEMAN, C.R. HURBURGH, JR

Development of a Safety Decision-Making Scenario to Measure Worker Safety in Agriculture
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2015 presented 2016

A Fluorescent Aptasensor Coupled with Nanobead-Based Immunomagnetic Separation for Simultaneous Detection of Four Foodborne Pathogenic Bacteria

L. Xu, Z. T. Callaway, R. Wang, H. Wang, M. F. Slavik, A. Wang, Y. Li

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The Efficiency of Biofilters at Mitigating Airborne MRSA from a Swine Nursery

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Journal of Agricultural Safety and Health 21(4)

Ethanol Production from Sugarcane Bagasse Using SSF Process and Thermotolerant Yeast

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Vegetated Treatment Area Effectiveness at Reducing Nutrient Runoff from Small Swine Operations in Central Texas

K. D. Higgs, R. D. Harmel, K. Wagner, P. K. Smith, R. L. Haney, D. R. Smith, R. Pampell

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Soil Erosion from Winter Wheat Cropland under Climate Change in Central Oklahoma

J. D. Garbrecht, X. C. Zhang

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Heterogeneity of Infiltration Rates in Alluvial Floodplains as Measured with a Berm Infiltration Technique

D. M. Heeren, G. A. Fox, D. E. Storm

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P. A. Vadas, L. W. Good, J. C. Panuska, D. L. Busch, R. A. Larson

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D. J. Lyons, P. H. Heinemann, J. R. Schupp, T. A. Baugher, J. Liu

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Process-Based Modeling of Ammonia and Nitrous Oxide Emissions from Open-Lot Beef and Dairy Facilities

H. F. Bonifacio, C. A. Rotz, A. B. Leytem, H. M. Waldrip, R.W. Todd

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An Optical Sprayer Nozzle Flow Rate Sensor

J. S. Dvorak, L. E. Bryant

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J. D. Luck, S. K. Pitla, M. P. Sama, S. A. Shearer

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Analyzing Correlations between Stream Benthic Macroinvertebrate Community Structure, Water Quality, and Watershed Land Use in the Continental United States

H. N. Sandefur, E. Cummings, R. Z. Johnston, M. D. Matlock, D. I. Gustafson

Biological Engineering Transactions 7(4)

2016 presented 2017

Engineering Economics of Cotton Stalk Supply Logistics Systems for Bioenergy Applications

K. Sahoo, S. Mani

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Development and Evaluation of a Computer-Based ROPS Design Program

P. D. Ayers, F. Khorsandi, Y. John, G. Whitaker

Journal of Agricultural Safety and Health 22(4)

Canopy Light Interception Conversion in Upright Fruiting Offshoot (UFO) Sweet Cherry Orchard

J. Zhang, Q. Zhang, M. D. Whiting

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An Evaluation of Simplifying Assumptions in Dairy Cow Computational Fluid Dynamics Models

M. Mondaca, C. Y. Choi

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Evaluation of a Laser Scanning Sensor in Detection of Complex-Shaped Targets for Variable-Rate Sprayer Development

H. Liu, H. Zhu

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Recalibration Methodology to Compensate for Changing Fluid Properties in an Individual Nozzle Direct Injection System

J. D. Luck, S. A. Shearer, B. D. Luck, M. P. Sama

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Removal of Cattle Manure Constituents in Runoff from No-Till Cropland as Affected by Setback Distance

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Evaluating Greenhouse Gas Mitigation and Climate Change Adaptation in Dairy Production Using Farm Simulation

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Value of ENSO-Forecasted Drought Information for the Management of Water Resources of Small to Mid-Size Communities

V. Sharda, P. Srivastava

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The Variability of ASCE Standardized Reference Evapotranspiration: A Rigorous, CONUS-Wide Decomposition and Attribution

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A Runoff and Sediment Routing Model for Open Lot Beef Feeding Facilities

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Analysis of Pear Dynamic Characteristics Based on Harmonic Response

W. Zhang, D. Cui, Z. Liu, Y. Ying

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Correlating Bulk Density (with Dockage) and Test Weight (without Dockage) for Wheat Samples

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Evaluation of Alternative Cover Materials for Reducing Hydrogen Sulfide Emission from Municipal Solid Waste (MSW) Landfills

Y. Ding, C. Cai, J. Xiong, A. Qian, J. Wei, B. Hu, W. Wu, Z. Han, H. Zhang, W. Ni

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Mortality Rate of Weaned and Feeder Pigs as Affected by Ground Transport Conditions

Y. Zhao, H. Xin, J. D. Harmon, T. J. Baas

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2017 Presented in 2018

Effective Use of Dairy Manure Mixed with Sand Bedding for Gasification

H. Nam, A. L. Maglinao, S. C. Capareda

Transactions of the ASABE 60(1)

Evaluation of Low-Cost Hydrogen Sulfide Monitors for Use in Livestock Production

J. M. Beswick-Honn, T. M. Peters, T. R. Anthony

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