

Superior Paper Award Winners 1995 - 2015

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
APPLIED ENGINEERING IN AGRICULTURE Vol. 13, No. 3

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

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

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
TRANSACTIONS of the ASAE Vol. 44, No. 1

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. CNOSSSEN

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
TRANSACTIONS OF THE ASAE Vol. 45, No. 5

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
TRANSACTIONS OF THE ASAE Vol. 46, No. 5

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

TRANSACTIONS of the ASAE Vol. 47, No. 4

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

TRANSACTIONS OF THE ASAE Vol. 47, No. 1

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 0157: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 Steamflow 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 Fertigation 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

APPLIED ENGINEERING IN AGRICULTURE Vol. 24, No. 6

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

Evaluation of Application Accuracy and Performance of a Hydraulically Operated Variable-Rate Aerial Application System
TRANSACTIONS OF THE ASABE Vol. 52, No. 3

M.J. DE KAM, R.V. MOREY, D.G. TIFFANY

Integrating Biomass to Produce Heat and Power at Ethanol Plants
APPLIED ENGINEERING IN AGRICULTURE Vol. 25, No. 2

K.C. LAWRENCE, S.C. YOON, D.R. JONES, G.W. HEITSCHMIDT, B. PARK, W.R. WINDHAM

Modified Pressure System for Imaging Egg Cracks
TRANSACTIONS OF THE ASABE Vol. 52, No. 3

M. CAMBRA-LÓPEZ, A. WINKEL, J. VAN HARN, N.W.M. OGINK, A.J.A. AARNINK

Ionization for Reducing Particulate Matter Emissions From Poultry Houses
TRANSACTIONS OF THE ASABE Vol. 52, No. 5

P.H. GOWDA, G.B. SENAY, T.A. HOWELL, T.H. MAREK

Lysimetric Evaluation of Simplified Surface Energy Balance Approach in the Texas High Plains
APPLIED ENGINEERING IN AGRICULTURE Vol. 25, No. 5

2010 presented 2011

G. BORREANI, E. TABACCO

Use of New Plastic Stretch Films with Enhanced Oxygen Impermeability to Wrap Baled Alfalfa Silage
TRANSACTIONS OF THE ASABE Vol. 53, No. 2

D. B. FUNK, Z. GILLAY

Dielectric Reference Materials for Mathematically Modeling and Standardizing Grain Moisture Meters
TRANSACTIONS OF THE ASABE Vol. 53, No.1

K. THEERARATTANANOON, X. WU, S. STAGGENBORG, J. PROPHESTER, R. MADL, D. WANG

Evaluation and Characterization of Sorghum Biomass as Feedstock for Sugar Production
TRANSACTIONS OF THE ASABE Vol. 53, No. 2

M. J. LAWRENCE, J. W. GARTHE, D. R. BUCKMASTER
Producing Solid Fuel from Non-Recyclable Agricultural Plastics
APPLIED ENGINEERING IN AGRICULTURE Vol. 26, No. 2

B. WU
CFD Prediction of Mixing Time in Anaerobic Digesters
TRANSACTIONS OF THE ASABE Vol. 53, No. 2

**S. IRMAK, J. M. REES, G. L. ZOUBEK, B. S. VAN DEWALLE, W. R. RATHJE,
R. DEBUHR, D. LEININGER, D. D. SIEKMAN, J. W. SCHNEIDER, A. P. CHRISTIANSEN**
Nebraska Agricultural Water Management Demonstration Network (NAWMDN): Integrating Research
and Extension/Outreach
APPLIED ENGINEERING IN AGRICULTURE Vol. 26, No. 4

R. D. HARMEL, P. K. SMITH, K. W. MIGLIACCIO
Modifying Goodness-of-Fit Indicators to Incorporate Both Measurement and Model Uncertainty in
Model Calibration and Validation
TRANSACTIONS OF THE ASABE Vol. 53, No. 1

K. B. CANTRELL, P.G. HUNT, K. S. RO, K. C. STONE, M. B. VANOTTI, J. C. BURNS
Thermogravimetric Characterization of Irrigated Bermudagrass as a Combustion Feedstock
TRANSACTIONS OF THE ASABE Vol. 53, No. 2

J. A. SORENSEN, P. JENKINS, B. BAYES, S. CLARK, J. J. MAY
Cost-Effectiveness of a ROPS Social Marketing Campaign
JOURNAL OF AGRICULTURAL SAFETY AND HEALTH Vol. 16, No. 1

2011 presented 2012

B. SHARMA, C. L. JONES, A. KHANCHI
Tensile Strength and Shear Strength of Switchgrass Before and After Frost
BIOLOGICAL ENGINEERING TRANSACTIONS Vol. 4, No. 1

R. KUBOTA, A. M. ALVAREZ, W. W. SU, D. M. JENKINS
FRET-Based Assimilating Probe for Sequence-Specific Real-Time Monitoring of Loop-Mediated
Isothermal Amplification
BIOLOGICAL ENGINEERING TRANSACTIONS Vol. 4, No. 2

**J. GUAN, H. HSIAO, J. V. ZWIENER, R. S. CURRENT, T. J. LUTZ, D. M. CANTIS,
J. R. POWERS JR., B. H. NEWBRAUGH, J. S. SPAHR**
Evaluating the Protective Capacity of Two-Post ROPS for a Seat-Belted Occupant During a Farm
Tractor Overturn
JOURNAL OF AGRICULTURAL SAFETY AND HEALTH Vol. 17, No. 1

Y. SHEN, J. A. OGEJO, K. E. BOWERS
Abating the Effects of Calcium on Struvite Precipitation in Liquid Dairy Manure
TRANSACTIONS OF THE ASABE Vol. 54, No. 1

M. CAMBRA-LOPEZ, T. HERMOSILLA, H. T. L. LAI, A. J. A. AARNINK, N. W. M. OGINK
Particulate Matter Emitted from Poultry and Pig Houses: Source Identification and Quantification
TRANSACTIONS OF THE ASABE Vol. 54, No. 2

T. J. SAUER, J. L. HATFIELD, F. L. HAAN, JR.

A Wind Tunnel Study of Airflow Near Model Swine Confinement Buildings

TRANSACTIONS OF THE ASABE Vol. 54, No. 2

R. G. HARDIN IV, S. W. SEARCY

Autonomous Cotton Module Forming System

APPLIED ENGINEERING IN AGRICULTURE Vol. 27, No. 4

F. MAZZETTO, A. CALCANTE, E. ORSI

Design, Development, and Evaluation of A Device For The Monitoring Of Liquid Manure Distribution Using Big Gun Sprinkler Distribution Systems

APPLIED ENGINEERING IN AGRICULTURE Vol. 27, No. 4

G. C. BORA, M. D. SCHROCK, D. L. OARD, J. GRIMM

Performance of A Pulse Width Modulated (PWM) Single To Multifold Outlet System for Variable-Rate Anhydrous Ammonia Application

TRANSACTIONS OF THE ASABE Vol. 54, No. 2

M. A. NEARING, H. WEI, J. J. STONE, F. B. PIERSON, K. E. SPAETH, M. A. WELTZ, D. C. FLANAGAN, M. HERNANDEZ

A Rangeland Hydrology and Erosion Model

TRANSACTIONS OF THE ASABE Vol. 54, No. 3

M. LEE, K. R. DOUGLAS-MANKIN

An Environmental Trading Ratio for Water Quality Trading

TRANSACTIONS OF THE ASABE Vol. 54, No. 5

R. W. SKAGGS, B. D. PHILLIPS, G.M. CHESCHEIR, C. C. TRETTIN

Effect of Minor Drainage on Hydrology of Forested Wetlands

TRANSACTIONS OF THE ASABE Vol. 54, No. 6

A.M. SEXTON, A. SHIRMOHAMMADI, A. M. SADEGHI, H. J. MONTAS

Impact of Parameter Uncertainty on Critical SWAT Output Simulations

TRANSACTIONS OF THE ASABE Vol. 54, No. 2

A. Y. SHESHUKOV, C. B. SIEBEN MORGEN, K. R. DOUGLAS-MANKIN

Seasonal and Annual Impacts of Climate Change on Watershed Response Using an Ensemble of Global Climate Models

TRANSACTIONS OF THE ASABE Vol. 54, No. 6

N. PAI, D. SARASWAT

SWAT2009_LUC: A Tool to Activate the Land Use Change Module in SWAT 2009

TRANSACTIONS OF THE ASABE Vol. 54, No. 5

J. QIN, K. CHAO, M. S. KIM, S. KANG, B.-K. CHO, W. JUN

Detection of Organic Residues on Poultry Processing Equipment Surfaces by LED- Induced Fluorescence Imaging

APPLIED ENGINEERING IN AGRICULTURE Vol. 27, No. 1

H. HUANG, C. RUAN, J. LIN, M. LI, L. M. COONEY, W. F. OLIVER, Y. LI, A. WANG

Magnetic Nanoparticle Based Magnetophoresis for Efficient Separation of E. Coli 0157:H7

TRANSACTIONS OF THE ASABE Vol. 54, No. 3

K. B. HICKS, J. WILSON, R. A. FLORES

Progressive Hull Removal from Barley Using the Fitzpatrick Comminuting Mill
APPLIED ENGINEERING IN AGRICULTURE Vol. 27, No. 5

2012 presented 2013

G .R. DEBOY, W.M. KNAPP, W.E. FIELD, G.W. KRUTZ, C.L. CORUM

Establishing the Need for an Engineering Standard for Agricultural Hitch Pins
JOURNAL OF AGRICULTURAL SAFETY AND HEALTH Vol. 18, No. 2

Y. TONG, T. KOZAI, N. NISHIOKA, K. OHYAMA

Reductions in Energy Consumption and CO2 Emissions for Greenhouses Heated With Heat Pumps
APPLIED ENGINEERING IN AGRICULTURE Vol. 28, No. 3

G.D.N. MAIA, G.T. SALES, G.B. DAY V, R.S. GATES, J.L. TARABA

Characterizing Physical Properties of Gas-Phase Biofilter Media
TRANSACTIONS OF THE ASABE Vol. 55, No. 5

D.H. LEE, K.A. SUDDUTH, S.T. DRUMMOND, S.O. CHUNG, D.B. MYERS

Automated Yield Map Delay Identification Using Phase Correlation Methodology
TRANSACTIONS OF THE ASABE Vol. 55, No. 3

Y. CHEN, H. ZHU, H.E. OZKAN

Development of a Variable-Rate Sprayer with Laser Scanning Sensor to Synchronize Spray Outputs to Tree Structures
TRANSACTIONS OF THE ASABE Vol. 55, No. 3

S.D. RYAN, A.G. GERBER, A.G.L. HOLLOWAY

A Computational Study of Sprays Produced by Rotary Cage Atomizers
TRANSACTIONS OF THE ASABE Vol. 55, No. 4

J.N. ACKERMAN, N. CICEK, J. OLESZKIEWICZ

Anaerobic Fermentation of Pig Manure to Increase Phosphorus Removal by Struvite Precipitation
BIOLOGICAL ENGINEERING TRANSACTIONS Vol.5, No. 4

J.A. GUZMAN, G.A. FOX

Implementation of Biopore and Soil Fecal Bacteria Fate and Transport Routines in the Root Zone Water Quality Model (RZWQM)
TRANSACTIONS OF THE ASABE Vol. 55, No. 1

J.P. BORDOVSKY, J.T. MUSTIAN

Cotton Response to Crop Row Offset and Orientation to Subsurface Drip Irrigation Laterals
APPLIED ENGINEERING IN AGRICULTURE Vol. 28, No. 3

R.W. HEALY, H.I. ESSAID

VS2DI: Model Use, Calibration, and Validation
TRANSACTIONS OF THE ASABE Vol. 55, No. 4

B.A. KING, D.L. BJORNEBERG

Transient Soil Surface Sealing and Infiltration Model for Bare Soil Under Droplet Impact
TRANSACTIONS OF THE ASABE Vol. 55, No. 3

J. LAMBA, T.R. WAY, P. SRIVASTAVA, S. SEN, C.W. WOOD, K.H. YOO

Surface Transport of Nutrients from Surface-Broadcast and Subsurface-Banded Broiler Litter
TRANSACTIONS OF THE ASABE Vol. 55, No. 3

F.R. LAMM, K.R. HARMONEY, A.A. ABOUKHEIRA, S.K. JOHNSON

Alfalfa Production with Subsurface Drip Irrigation in the Central Great Plains
TRANSACTIONS OF THE ASABE Vol. 55, No. 4

**D.C. GOODRICH, I.S. BURNS, C.L. UNKRICH, D.J. SEMMENS, D.P. GUERTIN
M. HERNANDEZ, S. YATHEENDRADAS, J.R. KENNEDY, L.R. LEVICK**

KINEROS2/AGWA: Model Use, Calibration, and Validation
TRANSACTIONS OF THE ASABE Vol. 55, No. 4

S. SANKARAN, R. EHSANI

Detection of Huanglongbing Disease in Citrus Using Fluorescence Spectroscopy
TRANSACTIONS OF THE ASABE Vol. 55, No. 1

S.C. YOON, K.C. LAWRENCE, D.R. JONES, G.W. HEITSCHMIDT

Improved Modified Pressure Imaging and Software for Egg Micro-Crack Detection and
Egg Quality Grading
APPLIED ENGINEERING IN AGRICULTURE Vol. 28, No. 2

**V.M. SMITH, P. KOLAR, M.D. BOYETTE, M. CHINN C. SMITH, R. GANGADHARAN,
G. ZHANG**

Advanced Oxidation of Toluene Using NI-Olivine Catalysts: Part 1. Synthesis, Characterization, and
Evaluation of NI-Olivine Catalysts for Toluene Oxidation
TRANSACTIONS OF THE ASABE Vol. 55, No. 3

**K. THEERARATTANANOON, F. XU, J. WILSON, S. STAGGENBORG MCKINNEY,
P. VADLANI, Z.J. PEI, D. WANG**

Impact of Pelleting and Acid Pretreatment on Biomass Structure and Thermal Properties of Wheat
Straw, Corn Stover, Big Bluestem, and Sorghum Stalk
TRANSACTIONS OF THE ASABE Vol. 55, No. 5

2013 presented 2014

P.-S. LIANG, J.-Y. YOON

Optofluidic Lab-on-a-Chip Monitoring of Subsurface Bacterial Transport:
BIOLOGICAL ENGINEERING TRANSACTIONS Vol. 6, No. 1

E. TAMIMI, M. KACIRA, C.Y. CHOI, L. AN

Analysis of Microclimate Uniformity in a Naturally Vented Greenhouse with a High- Pressure Fogging
System
TRANSACTIONS OF THE ASABE Vol. 56, No. 3

J. LAWRENCE, D.E. MAIER, R. L. STROSHINE

Three-Dimensional Transient Heat, Mass, Momentum, and Species Transfer in the Stored Grain
Ecosystem: Part II. Model Validation
TRANSACTIONS OF THE ASABE Vol. 56, No. 1

D.F. SCHIAVONE, A.A. TEIXEIRA, R.A. BUCKLIN, S.A. SARGENT

Design and Performance Evaluation of a Solar Convection Dryer for Drying Tropical Fruit

APPLIED ENGINEERING IN AGRICULTURE Vol. 29, No. 3

X. WANG, S.R.S.DEV, A. DEMIRCI, R.E. GRAVES, V.M. PURI

Electrolyzed Oxidizing Water for Cleaning-In-Place of On-Farm Milking Systems – Performance Evaluation and Assessment

APPLIED ENGINEERING IN AGRICULTURE Vol. 29, No. 5

H.J. KIM, K.A. SUDDUTH, J.W. HUMMEL, S.T. DRUMMOND

Validation Testing of a Soil Macronutrient Sensing System

TRANSACTIONS OF THE ASABE Vol. 56, No. 1

S.D. RYAN, A.G. GERBER, A.G.L. HOLLOWAY

A Computational Study on Spray Dispersal in the Wake of an Aircraft

TRANSACTIONS OF THE ASABE Vol. 56, No. 3

C.N. HOWARD, M.F. KOCHER, R.M. HOY, E.E. BLANKENSHIP

Testing Fuel Efficiency of Tractors with Continuously Variable and Standard Geared Transmissions

TRANSACTIONS OF THE ASABE Vol. 56, No. 3

T.C. BRIDGES, R.S. GATES, E.M. SMITH, L.W. TURNER

Modeling the Growth of Laboratory and Farm Animals: Part 2. Polytocous Animals and the Relationship of Birth Weight, Gestation Time, and Mature Size

TRANSACTIONS OF THE ASABE Vol. 56, No. 3

M. MONDACA, F. ROJANO, C.Y. CHOI, K.G. GEBREMEDHIN

A Conjugate Heat and Mass Transfer Model to Evaluate the Efficiency of Conductive Cooling for Dairy Cattle

TRANSACTIONS OF THE ASABE Vol. 56, No. 6

A.T. AL-MADHHACHI, G.J. HANSON, G.A. FOX, A.K. TYAGI, R. BULUT

Measuring Soil Erodibility Using a Laboratory Mini JET

TRANSACTIONS OF THE ASABE Vol. 56, No. 3

S. ARNHOLD, M. RUIDISCH, S. BARTSCH, C.L. SHOPE, B. HUWE

Simulation of Runoff Patterns and Soil Erosion on Mountainous Farmland With and Without Plastic-Covered Ridge-Furrow Cultivation in South Korea

TRANSACTIONS OF THE ASABE Vol. 56, No. 2

J. GAO, L.E. WAGNER, F. FOX, S.H. CHUNG, J.K. VAUGHAN, B.K. LAMB

Spatial Application of WEPS for Estimating Wind Erosion in the Pacific Northwest

TRANSACTIONS OF THE ASABE Vol. 56, No. 2

O.Z. AL-HAMDAN, F.B. PIERSON, M.A. NEARING, C.J. WILLIAMS, J.J. STONE, P.R. KORMOS, J. BOLL, M.A. WELTZ

Risk Assessment of Erosion from Concentrated Flow on Rangelands Using Overland Flow Distribution and Shear Stress Partitioning

TRANSACTIONS OF THE ASABE Vol. 56, No. 2

V. SHARMA, D.R. RUDNICK, S. IRMAK

Development and Evaluation of Ordinary Least Squares Regression Models for Predicting Irrigated and Rainfed Maize and Soybean Yields
TRANSACTIONS OF THE ASABE Vol. 56, No. 4

E.R. DALY, G.A. FOX, A.T. AL-MADHHACHI, R.B. MILLER

A Scour Depth Approach for Deriving Erodibility Parameters from Jet Erosion Tests
TRANSACTIONS OF THE ASABE Vol. 56, No. 6

B. VELUSAMI, T.P. CURRAN, H.M. GROGAN

Hydrogen Sulfide Gas Emissions in the Human-Occupied Zone during Disturbance and Removal of Stored Spent Mushroom Compost
JOURNAL OF AGRICULTURAL SAFETY AND HEALTH Vol. 19, No. 4

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**

Detection of Non-0157 Shiga Toxin-Producing *Escherichia coli* (STEC) Serogroups with Hyperspectral Microscope Imaging Technology
TRANSACTIONS OF THE ASABE Vol. 57, No. 3

D. WANG, W. YUAN, D. WANG, A. KUMAR

A Char-Supported Nano-NiO Catalyst for Biomass Syngas Cleanup with Conditioning
TRANSACTIONS OF THE ASABE Vol. 57, No. 1

W. CHAYAPRASERT, A. CHANTALAK, A. SUKCHAROEN

Porosity Measurement of Granular Materials by Comparisons of Air Pressure Decay Rates
TRANSACTIONS OF THE ASABE Vol. 57, No. 5

J. QIN, K. CHAO, B.-K. CHO, Y. PENG, M.S. KIM

High-Throughput Raman Chemical Imaging for Rapid Evaluation of Food Safety and Quality
TRANSACTIONS OF THE ASABE Vol. 57, No. 6

A. KOLLER, Y. WAN, E. MILLER, P. WECKLER, R. TAYLOR

Test Method for Precision Seed Singulation Systems
TRANSACTIONS OF THE ASABE Vol. 57, No. 5

M.P. SAMA, T.S. STOMBAUGH

Performance Evaluation of a Tracking Total Station as a Position Reference for Dynamic GNSS Accuracy Testing
APPLIED ENGINEERING IN AGRICULTURE Vol. 30, No. 4

P. SAVOIE, P.L. HEBERT, F.-S. ROBERT

Novel Willow Header Adapted to a Pull-Type Forage Harvester: Development and Field Experiments
APPLIED ENGINEERING IN AGRICULTURE Vol. 30, No. 5

B.D. LUCK, J.D. DAVIS, J.L. PURSWELL, A.S. KIESS, S.J. HOFF, J.W.W. OLSEN
Effect of Measurement Density on Characterizing Air Velocity Distribution in Commercial Broiler Houses
TRANSACTIONS OF THE ASABE Vol. 57, No. 5

J.P. STINN, H. XIN
Heat and Moisture Production Rates of a Modern U.S. Swine Breeding, Gestation, and Farrowing Facility
TRANSACTIONS OF THE ASABE Vol. 57, No. 5

D.M. ENDALE, D.D. BOSCH, T.L. POTTER, T.C. STRICKLAND
Sediment Loss and Runoff from Cropland in a Southeast Atlantic Coastal Plain Landscape
TRANSACTIONS OF THE ASABE Vol. 57, No. 6

K.R. THORP, E.M. BARNES, D.J. HUNSAKER, B.A. KIMBALL, J.W. WHITE, V.J. NAZARETH, G. HOOGENBOOM
Evaluation of CSM-CROPGRO-Cotton for Simulating Effects of Management and Climate Change on Cotton Growth and Evapotranspiration in an Arid Environment
TRANSACTIONS OF THE ASABE Vol. 57, No. 6

B.J. ALLRED, D.L. GAMBLE, W.B. CLEVINGER, G.A. LABARGE, G.L. PRILL, B.J. CZARTOSKI, N.R. FAUSEY, L.C. BROWN
Crop Yield Summary for Three Wetland Reservoir Subirrigation Systems in Northwest Ohio
APPLIED ENGINEERING IN AGRICULTURE Vol. 30, No. 6

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
JOURNAL OF AGRICULTURAL SAFETY AND HEALTH Vol. 20, No. 2

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
Transactions of the ASABE 58(3)

Simulation and Validation of Airflow Pressure Patterns in Hopper-Bottom Bins Filled with Wheat
J. A. Moses, V. Chelladurai, D. S. Jayas, K. Alagusundaram
Applied Engineering in Agriculture 31(2)

The Efficiency of Biofilters at Mitigating Airborne MRSA from a Swine Nursery
D. D. Ferguson, T. C. Smith, K. J. Donham, S. J. Hoff
Journal of Agricultural Safety and Health 21(4)

Ethanol Production from Sugarcane Bagasse Using SSF Process and Thermotolerant Yeast
G. M. Silva, R. L. C. Giordano, A. J. G. Cruz, K. D. Ramachandriya, I. M. Banat, M. R. Wilkins
Transactions of the ASABE 58(2)

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
Applied Engineering in Agriculture 31(4)

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

J. D. Garbrecht, X. C. Zhang
Applied Engineering in Agriculture 31(3)

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

D. M. Heeren, G. A. Fox, D. E. Storm
Transactions of the ASABE 58(3)

A New Model for Phosphorus Loss in Runoff from Outdoor Cattle Lots

P. A. Vadas, L. W. Good, J. C. Panuska, D. L. Busch, R. A. Larson
Transactions of the ASABE 58(4)

Development of a Selective Automated Blossom Thinning System for Peaches

D. J. Lyons, P. H. Heinemann, J. R. Schupp, T. A. Baugher, J. Liu
Transactions of the ASABE 58(6)

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
Transactions of the ASABE 58(3)

Odor and Odorous Chemical Emissions from Animal Buildings: Part 3. Chemical Emissions

L. Cai, J. A. Koziel, S. Zhang, A. J. Heber, E. L. Cortus, D. B. Parker, S. J. Hoff, G. Sun, K. Y. Heathcote, L. D. Jacobson, N. Akdeniz, B. P. Hetchler, S. D. Bereznicki, E. A. Caraway, T. T. Lim
Transactions of the ASABE 58(5)

An Optical Sprayer Nozzle Flow Rate Sensor

J. S. Dvorak, L. E. Bryant
Transactions of the ASABE 58(2)

Flow, Spray Pattern, and Droplet Spectra Characteristics of an Electronically Actuated Variable-Orifice Nozzle

J. D. Luck, S. K. Pitla, M. P. Sama, S. A. Shearer
Transactions of the ASABE 58(2)

Feasibility of Using PFC^{3D} to Simulate Soil Flow Resulting from a Simple Soil-Engaging Tool

M. A. Sadek, Y. Chen
Transactions of the ASABE 58(4)

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)