

**Superior Paper Award Winners
1995 - 2017**

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

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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
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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
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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 Anaerobic 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
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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
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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
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N. GALILI, I. SHMULEVICH, N. BENICHO

Acoustic Testing of Avocado for Fruit Ripeness Evaluation
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R.L. CLARK, R. LEE

Development of Topographic Maps for Precision Farming with Kinematic GPS
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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
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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
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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
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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
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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

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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

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T.C. PEARSON

Detection of Pistachio Nuts with Closed Shells Using Impact Acoustics APPLIED

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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

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

Surface Amendments to Minimize Ammonia Emissions from Beef Cattle Feedlots

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

Machine Vision Extracted Plant Movement for Early Detection of Plant Water Stress
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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
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A.C. SHETH, A.D. TURNER

Kinetics and Economics of Catalytic Steam Gasification of Broiler Litter
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A.J. BUKTA, K. SAKAI, A. SASAO, S. SHIBUSAWA

Free Play as a Source of Nonlinearity in Tractor-Implement Systems During Transport
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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
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M. VANOTTI, A. SZOGI, P. HUNT

Extraction of Soluble Phosphorus From Swine Wastewater
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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
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Detection of Bruises on Apples Using Near-Infrared Hyperspectral Imaging

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
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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
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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

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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

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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

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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

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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

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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

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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

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**K. J. SHINNERS, G. S. ADSIT, B. N. BINVERSIE, M. F. DIGMAN, R. E. MUCK,
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Single-Pass, Split-Stream Harvest of Corn Grain and Stover
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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
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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
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R. SUI, J.A. THOMASSON, Y. GE, C. MORGAN

Multispectral Sensor For In-Situ Cotton Fiber Quality Measurement TRANSACTIONS OF
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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
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S. BALASUBRAMANIAN, V. M. PURI

Fouling Mitigation During Product Processing Using a Modified Plate Heat Exchange Surface
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C. S. RENSCHLER, D. C. FLANAGAN

Site-Specific Decision-Making Based on RTK GPS Survey and Six Alternative Evaluation Data Sources: Soil
Erosion Predictions
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C. SHIH, Z. PAN, T. McHUGH, D. WOOD, E. HIRSCHBERG

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

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

Evaluation of Application Accuracy and Performance of a Hydraulically Operated Variable-Rate Aerial
Application System
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M.J. DE KAM, R.V. MOREY, D.G. TIFFANY

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2011 presented 2012

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2014 presented 2015

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Crop Yield Summary for Three Wetland Reservoir Subirrigation Systems in Northwest Ohio APPLIED ENGINEERING IN AGRICULTURE Vol. 30, No. 6

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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

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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

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

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

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H. Liu, H. Zhu

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

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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

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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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Effective Use of Dairy Manure Mixed with Sand Bedding for Gasification

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

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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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Detection of Internally Bruised Blueberries Using Hyperspectral Transmittance Imaging

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