

AGCO Student Design Competition Winners 2001 - Present

2016

1st Place

University of Tennessee: Hayden Jordan, Taylor Overton, Jonathan Yoder
Integrated System to Monitor Dairy Calf Feeding Behavior for Pre-Clinical Detection of Disease

2nd Place

University of Wisconsin - Madison: Caynen Klessig, Kathleen Roush, Rebecca Smith, Haohua (Mandy) Wang
Separation Device of Hazelnut Kernels and Shells

3rd Place

Kansas State University: Austin Schmitz, Peter Masters, Davie Leiszler
Mechanical Net Wrap Remover for Large Round Hay Bales

2015

1st Place

University of Wisconsin – Madison: Jennifer Sanford, Travis Schumacher, Jenelle Selig, Lindsay Shewchuk, Trever Meyer
Small-Scale Hazelnut Cracker

2nd Place

Ohio University – Athens: Devon Baum, David D’Agostino, Corey Deeter, Eric Tolar, Ryan Radecki
Bean Bagging System

3rd Place

University of Tennessee: Chance Frana, Cole Stonebrook, Sam Tabor
The Squeaver

2014

1st Place

University of Wisconsin – Lucas Sisler, Shenghzhi He, Ned Ahlberg
Batch – Type Barrel Washer for Root Crops

2nd Place

University of Wisconsin – Joseph Treinen, Nolan Lacy
A Scale Attachment for a Tractor Front End Loader

3rd Place

Iowa State University – Andrew Verhasselt
Automated Wire Feeder Add-on to Mechanical Transplanter’s Model 95 Tunnel Layer

2013

1st Place

University of Wisconsin – Brandon Nigon, Scott Dietsche, Christopher Strehmel
BADGER DYNO: An Easily Adopted Tractor Hitch Dynamometer

2nd Place

University of Tennessee – Dillon Avans, Robert Baldus, Andrew Veeneman
A Systematic Approach to the Improvement of High Tunnels with Regards to Their Ability to Withstand Wind

3rd Place

University of Tennessee – Ryan Hodges, Chanci King, Brandon Massengill, Brittani Pere
Subclinical Mastitis Inline Detection System (S.M.I.D.S.)

2012

1st Place

University of Tennessee - Chris Drinnon, Tyler Pannell, Steven Pickett
Where the Rubber Leaves the Road: Designing a Single Turf Tire Test Unit for Traction Performance

2nd Place

Oklahoma State University - Scott Clark, Eric Lam
Automated Chemical Injection System - N2 Line Solutions

3rd Place

Kansas State University - Jacob Nagely, Lisa Hillstock
Measure Ear Drooping to Detect Cattle Illness

2011

Place	Name(s), School and Project
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1st	Fernando Aristizabal - University of Florida <u>Big Cypress Seminole Indian Reservation: Carl Baxley's Seepage Irrigation and Drainage System Design</u>
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2nd	James Bevington, Joseph Freeman, Benjamin Hoptroff, Clayton Parsons - University of Tennessee <u>Design of a Blue Crab Nursery System for Stock Enhancement</u>
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3rd	Tai-wen (Debby) Chou, Nathan Holeman, Haley Malle, Jeff Welch - University of Arkansas <u>Remote Bidirectional Bump Gate for a Disabled Cattle Farmer</u>
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2010

Place	Name(s), School and Project
1st	Heath Duncan, Lori Gibson, Alexander McLemore, Rebecca Messer – University of Tennessee <u>"CROPP – Cryogenic Reduction of Organic Pest Plants"</u>
2nd	Keith Connolly, Tatjana Trebic – McGill University <u>"Optimization of a Backyard Aquaponic Food Production System"</u>
3rd	Joel Jagodinsky, Luke Melchior, Jesse Smith, Andrew Van Hoorn - University of Wisconsin <u>"Small Engine Dynamometer"</u>

2009

Place	Name(s), School and Project
1st	Peter Harris, Pao Her, Andrew Holstein, Kyle Nelson – University of Wisconsin <u>"Knuckle-Boom Crane Attachment for Skid Steer Loaders"</u>
2nd	Kody Habeck, Shane Williams – University of Wisconsin <u>"Badger Bale Borer: A Hay, Forage, and Biomass Sampling Device"</u>
3rd	Mitchell Groothuis, John Kruckeberg, William Nichols, Abdoulaye Samba, Chase Shaver – University of Tennessee <u>"Powered Foldable ROPS"</u>

2008

Place	Name(s), School and Project
1st	Thomas Fortin-Chevalier, Pénélope Thériault – McGill University <u>"Design of a Continuous Flow Biodiesel Production Research Unit in India"</u>
2nd	Erin E. Byers, Kimberly N. Geary, Boone S. Hillenbrand, Andrew O. Smith - University of Tennessee <u>"Biomass Automated Densification Device – B.A.D.D.!"</u>
3rd	Michael A. Hagan, Steven J. Yaste, Charles A. Masterson, Matthew T. Ballard - University of Kentucky <u>"Agricultural Implement Guidance System – Dream Engineering"</u>

Corporation"

2007

Place	Name(s), School and Project
1st	Clint T. Cosgrove, Matthew L. Lemmons, Kevin D. Taylor, Lance P. Klement - Oklahoma State University <u>"Redesign of a Tree Shear"</u>
2nd	Grant J. Wonderlich and Andrew M. Goodall - University of Kentucky <u>"Single Wheel Tester for Small Agricultural, Construction and ATV Tires"</u>
3rd	Eric Krogh and Justin Jackson - University of Kentucky <u>"Equine Mobile Feeder"</u>

2006

Place	Name(s), School and Project
1st	Joe M. Biggerstaff, William R. Haar, Matt S. Kilker, Taylor F. Miller - Oklahoma State University <u>"Design of a Manual Cattle Chute"</u>
2nd	Aaron R. Flouro, Kyle P. Bunnow - University of Wisconsin <u>"Moment Resisting Wood-to-Concrete Pier Connection"</u>
3rd	Garrett L. Anderson, John P. Lyons, Joshua B. Meuth, Joshua L. Mosley - Texas A&M University

2005

Place	Name(s), School and Project
1st	Brent C. Jessop, Krista L. Sider, Tom Lee, University of Guelph <u>"Acoustic/EMG System for the Analysis of Food Texture"</u>

- 2nd Matthew J. McDonald, University of Wisconsin
"Quick-Attach Grapple System"
- 3rd Katherine Q. Christian, Benjamin B. Clark, Ester V. Dittert, Brian D. Luck, University of Kentucky
"Precision Sprayer Control System Design"

2004

Place Name(s), School and Project

- 1st Kody R. Featherston, Candice L. Johnson, J. Kent Evatt, and Monica L. Johnston, Oklahoma State University, Effective Means of Silt Fence Installation
 Additional files from the OSU team: OSU Silt Fence Installer; and n Brochure
- 2nd Tyler G. Gipson, Elizabeth Kaufman, Brian K. Shcaffer, and Derek A. Schluterman, University of Arkansas, The Design of a System for the Rapid Pasteurization of Animal Carcasses Contaminated with High Risk Pathogens

2003

Placement Name, School and Project

- 1st Amber D. (Hasche) Widman - Iowa State University. Title of Paper: "Model for Testing Greenhouse Ventilation Logic." Link to paper (pdf; 1,269 kilobytes): Model for Testing Greenhouse.
- 2nd Vincent L. Stout - Iowa State University. Title of Paper: "Swine Methane Emissions Using the Tracer Gas Ratio Method."
- 3rd James A. Koch - South Dakota State University. Title of Paper: "Low Pressure Sprinkler Distribution."
 Link to paper (pdf, 2,163 kb):
Low Pressure Sprinkler Distribution

2002

Placement Name, School and Project

- 1st Nicholas A. Krueger - Iowa State University
Title of paper: Gravity Table Separation of Commodity Corn.
- 2nd Timothy J. Van Pelt - Iowa State University
Title of paper: Biomass Densification.
- 3rd Nathan E. Isaac - Kansas State University
Title of paper: Using Cone Index Data to Explain in Field Yield Variation

2001

Placement Name, School and Project

- 1st Laura K. Doud, Daniel P. Grant, David C. Smith
Michigan State University
"Trim EZ Pruner D.D.L. Equipment Solutions" (pdf file).
- 2nd Jamie D. Foote, Samuel J. Ray, John S. Young, III
University of Tennessee
"Environmental Control in Hydroponic Tomato Greenhouses"
- 3rd Ryan E. Nelson, Tyler G. Gipson, Christopher M. Long, Gloria B. Hebert, Clay W. McDaniel, Ray S. Avery, Johnny M.L. Mason, Mark E. Orlicek, University of Arkansas
"Design of an Aeroponic Plant Growth Chamber"