

2007 West Tennessee Regional Science and Engineering Fair Award Recipients:

American Psychological Association: For Best Exhibit in the Behavioral and Social Sciences

Winner: Sonny Gunn **School:** Faith Home School **Sponsoring Teacher:** Lezlie Haynes

Project Title: Video Games, Blood Pressure and Heart Rate **Grade:** 9th

American Society of Mechanical Engineers Award: Most Outstanding Mechanical Engineering Project

Winner: Alexandar S. Little **School:** Union City Middle School **Sponsoring Teacher:** Beverly Dones

Project Title: Rubber Band Heat Engine **Grade:**

ASM International Foundation Award: Most Outstanding Material Engineering Project

Winner: Kelly Arnold **School:** Central Camden High School **Sponsoring Teacher:** Rneee Wyatt

Project Title: The Effect of Heat on Various Metals and Their Hardness

Association for Women Geoscientists Award: Award for female student whose project exemplifies high standards of innovativeness and scientific excellence in the geosciences.

Winner: Taylor Leigh Hargrove **School:** Union City Middle School **Sponsoring Teacher:** Beverly Dones

Project Title: Energy of the Future Wind Power **Grade:** 8th

Delta Faucet Green Awards: 6 project awards for projects presenting the best Green Idea.

Winner: Jay Boyd **School:** Jackson Careers and Technology **Sponsoring Teacher:** Mrs. Lanier

Project Title: Hydroponics **Grade:** 6th grade

Winner: Benjamin Elkins **School:** Ripley Elementary School **Sponsoring Teacher:** Gina Hendren

Project Title: Pollution in the Air Rate **Grade:** 5th grade

Winner: Trebor Briley **School:** Northeast Middle School **Sponsoring Teacher:** Paula Broomfield

Project Title: Water: Is It Equal? **Grade:** 7th

Winner: Taylor Leigh Hargrove **School:** Union City Middle School **Sponsoring Teacher:** Beverly Dones

Project Title: Energy of the Future, Wind Power **Grade:** 8th

Winner: Mary Unger **School:** Westview High School **Sponsoring Teacher:** Rosemary Neville

Project Title: The Effect of Dioxins on the Regenerating Tissues of Dugesia **Grade:** 12th

Winner: Merissa Brooke Mayo **School:** Gleason High School **Sponsoring Teacher:** Betty Jackson

Project Title: The Anti-Toxic Effects of French Green Clay vs. Alternate Clay **Grade:** 12th grade

Delta Faucet Green Award: Overall Best Project Supporting Environmental Friendliness

Winner: Taylor Leigh Hargrove **School:** Union City Middle School **Sponsoring Teacher:** Beverly Dones

Project Title: Energy of the Future, Wind Power **Grade:** 8th

Herbert Hoover Young Engineer Award: Most Outstanding Engineering Project

Winner: Taylor Leigh Hargrove **School:** Union City Middle School **Sponsoring Teacher:** Beverly Dones

Project Title: Energy of the Future, Wind Power **Grade:** 8th

Kentucky Lake Section of the American Chemical Society: Award for Public Awareness of chemistry

Winner: Trebor Briley **School:** Northeast Middle School **Sponsoring Teacher:** Paula Broomfield

Project Title: Water: Is It Equal? **Grade:** 7th

Mu Alpha theta National High School and Two Year College Mathematics Club Award: Individual or Group Project demonstrating the most challenging, thorough, and creative investigation of a problem involving modern mathematics.

Winner: William Hubbs **School:** Camden Central High School **Sponsoring Teacher:** Renee Wyatt

Project Title: Wildlife Food Plots: A Comparison of Monoculture to Mixed Species Plantings **Grade:** 9th

National Society of Professional Engineers: Best Exhibit in Engineering (Grades 7-12).

Winner: Taylor Leigh Hargrove **School:** Union City Middle School **Sponsoring Teacher:** Beverly Dones

Project Title: Energy of the Future, Wind Power **Grade:** 8th

National Oceanic and Atmospheric Administration (NOAA): For research emphasizing NOAA's mission to understand and predict changes in Earth's environment and conserve and manage coastal and marine resources to meet our Nation's economic, social, and environmental needs.

Winner: Taylor Leigh Hargrove **School:** Union City Middle School **Sponsoring Teacher:** Beverly Dones

Project Title: Energy of the Future, Wind Power **Grade:** 8th

RICOH Sustainable Development Award: Presented to the student or team whose project offers the greatest potential for increasing our ability to grow environmentally friendly and socially responsible businesses.

Winner: Jay Boyd **School:** Jackson Careers and Technology **Sponsoring Teacher:** Mrs. Lanier

Project Title: Hydroponics **Grade:** 6th grade

Society for In Vitro Biology:

Winner: Buddy Legens **School:** Westview High School **Sponsoring Teacher:** Rosemary Neville

Project Title: The effect of Foliar Nitrogen on the Growth Rate of Glycine Max **Grade:** 11th grade

State of Tennessee Department of Economic and Community Development Award: Energy Division: Best energy Conservation Project in the junior division.

Winner: Taylor Leigh Hargrove **School:** Union City Middle School **Sponsoring Teacher:** Beverly Dones

Project Title: Energy of the Future, Wind Power **Grade:** 8th

State of Tennessee Department of Economic and Community Development Award: Energy Division: Best energy Conservation Project in the elementary division.

Winner: Sarah E. Cathey **School:** Inman Middle School **Sponsoring Teacher:** Erin Coleman

Project Title: I've Got Sunshine **Grade:** 6th

United States Department of Health and Human Services Award: In recognition for an outstanding student project that creatively illustrates the Surgeon General's Call for a healthy lifestyle including regular physical activity, a healthy diet, and avoidance of tobacco and substance abuse.

Winner: Kayla Elise Hudson **School:** Gleason High School **Sponsoring Teacher:** Betty Jackson

Project Title: A Comparative Study of the Quantities of Beta-Carotene in Ipomoea batatas **Grade:** 12th

United States Army Awards:

Winner Engineering:

Winner: Lee A Elliott **School:** Westview High School **Sponsoring Teacher:** Marion Pitts

Project Title: The Effects of Roof Pitch and Shingle Application on Destruction by Tornadoic Simulation
Grade: 12th

Winner Environmental Science:

Winner: Kayla Elise Hudson **School:** Gleason High School **Sponsoring Teacher:** Betty Jackson

Project Title: A Comparative Study of the Quantities of Beta-Carotene in Ipomoea batatas **Grade:** 12th

Winner Math and Computer Science:

Winner: William Hubbs **School:** Camden Central High School **Sponsoring Teacher:** Renee Wyatt

Project Title: Wildlife Food Plots: A Comparison of Monoculture to Mixed Species Plantings **Grade:** 9th

Winner Life Science:

Winner: Jessica Ashleigh Hensley **School:** Gleason High School **Sponsoring Teacher:** Betty Jackson

Project Title: The Inhibition of Staphylococcus Epidermidis by Cranberry Juice and Licorice **Grade:** 12th

Winner Physical Science Award:

Winner: Kelly Arnold **School:** Central Camden High School **Sponsoring Teacher:** Renee Wyatt

Project Title: The Effect of Heat on Various Metals and Their Hardness

United States Army Bronze Medallion Winner:

Winner: Kayla Elise Hudson **School:** Gleason High School **Sponsoring Teacher:** Betty Jackson

Project Title: A Comparative Study of the Quantities of Beta-Carotene in Ipomoea batatas **Grade:** 12th

United States Metric Association Award: The award is presented to the student whose project involves a significant amount of quantitative measurement and which best used the SI metric system for those measurements.

Winner: Mary Unger **School:** Westview High School **Sponsoring Teacher:** Rosemary Neville

Project Title: The Effect of Dioxins on the Regenerating Tissues of Dugesia **Grade:** 12th

Naval Science Awards present on behalf of the Office of Naval Research for the Junior Division:

Winner: Taylor Leigh Hargrove **School:** Union City Middle School **Sponsoring Teacher:** Beverly Dones

Project Title: Energy of the Future, Wind Power **Grade:** 8th

Winner: Trebor Briley **School:** Northeast Middle School

Sponsoring Teacher: Paula Broomfield

Project Title: Water: Is It Equal? **Grade:** 7th

Naval Science Awards present on behalf of the Office of Naval Research for the Senior Division:

Winner: Aminda Winters **School:** Camden Central High School **Sponsoring Teacher:** Renee Wyatt

Project Title: Does Heat Given Off by Lightbulbs Increase with Time? **Grade:** 9th

Winner: Buddy Legens **School:** Westview High School **Sponsoring Teacher:** Rosemary Neville

Project Title: The effect of Foliar Nitrogen on the Growth Rate of Glycine Max **Grade:** 11th grade

Winner: Derek Ahn **School:** Westview High School **Sponsoring Teacher:** Marion Pitts

Project Title: The Effect of Salt Water Infusion on the Reproductive cycle of Cyclops **Grade:** 12th grade

The University of Tennessee at Martin – Sigma Xi Chapter Award for Interdisciplinary Scientific Study: Best Exhibit in a category demonstrating the interdisciplinary nature of scientific research.

Winner: Merissa Brooke Mayo **School:** Gleason High School **Sponsoring Teacher:** Betty Jackson

Project Title: The Anti-Toxic Effects of French Green Clay vs. Alternate Clay **Grade:** 12th grade

Water Environment Federation Award: Best Project related to water quality (grades 9-12), water resource management, water protection, water treatment or wastewater treatment.

Winner: Mary Unger **School:** Westview High School **Sponsoring Teacher:** Rosemary Neville

Project Title: The Effect of Dioxins on the Regenerating Tissues of Dugesia **Grade:** 12th

Yale Science and Engineering Association: Most outstanding eleventh grade exhibit in the area of Computer Science, Engineering, Physics or Chemistry.

Winner: Buddy Legens **School:** Westview High School **Sponsoring Teacher:** Rosemary Neville
Project Title: The effect of Foliar Nitrogen on the Growth Rate of Glycine Max **Grade:** 11th grade

Discovery Young Scientist Awards: these awards go to the first, second and third place winners in the Union Awards category for Elementary Physical Science and Elementary Lifesciences:

Winner: Brandon Martin **School:** Munford Middle School **Sponsoring Teacher:** Karen Livingston
Project Title: Ultraviolet Rays **Grade:** 6th grade
3rd Place Award Discovery Award Elementary Physical Division

Winner: Evelyn Leung **School:** Faith Tutorial **Sponsoring Teacher:** Michelle McFarland
Project Title: Can You Obtain Water from Ink, Vinegar, and Milk? **Grade:** 6th grade
2nd Place Award Discovery Award Elementary Physical Division

Winner: Charles William Freeman **School:** Gleason School **Sponsoring Teacher:** Monica Rollins
Project Title: Solar Energy: At What Angle Does a Solar Cell rated at Six Volts Produce the Most Power
Grade 6th 1st Place Award Discovery Award Elementary Physical Division

Winner: Karissa Renee Youngblood **School:** Homeschool **Sponsoring Teacher:** Becky Youngblood
Project Title: The Egg Hatchery **Grade:** 5th grade
3rd Place Award Discovery Award Elementary Lifescience Division

Winner: Courtney Ball **School:** Faith Home School **Sponsoring Teacher:** Star Neely
Project Title: Plant Germination **Grade:** 5th grade
2nd Place Award Discovery Award Elementary Lifescience Division

Winner: Austin Orr **School:** University School of Jackson **Sponsoring Teacher:** Jeff Johnson
Project Title: Supermarket Swipe **Grade:** 5th grade
1st Place Award Discovery Award Elementary Lifescience Division

Union University Elementary Physical Science Awards Division:

Winner: Sere C. Jackson **School:** West Carroll Elementary **Sponsoring Teacher:** Martha Vann
Project Title: Static Electricity **Grade:** 6th grade
Honorable Mention Award Elementary Physical Division

Winner: Brandon Martin **School:** Munford Middle School **Sponsoring Teacher:** Karen Livingston
Project Title: Ultraviolet Rays **Grade:** 6th grade
3rd Place Award Elementary Physical Division

Winner: Evelyn Leung **School:** Faith Tutorial **Sponsoring Teacher:** Michelle McFarland
Project Title: Can You Obtain Water from Ink, Vinegar, and Milk? **Grade:** 6th grade
2nd Place Award Elementary Physical Division

Winner: Charles William Freeman **School:** Gleason School **Sponsoring Teacher:** Monica Rollins
Project Title: Solar Energy: At What Angle Does a Solar Cell rated at Six Volts Produce the Most Power
Grade 6th 1st Place Award Elementary Physical Division

Union University Elementary Lifescience Division

Winner: Clint Plunk **School:** Bolivar Elementary School **Sponsoring Teacher:** Helen Henning

Project Title: Penicillium **Grade:** 5th grade

Honorable Mention Award Elementary Lifescience Division

Winner: Karissa Renee Youngblood **School:** Homeschool **Sponsoring Teacher:** Becky Youngblood

Project Title: The Egg Hatchery **Grade:** 5th grade

3rd Place Award Elementary Lifescience Division

Winner: Courtney Ball **School:** Faith Home School **Sponsoring Teacher:** Star Neely

Project Title: Plant Germination **Grade:** 5th grade

2nd Place Award Elementary Lifescience Division

Winner: Austin Orr **School:** University School of Jackson **Sponsoring Teacher:** Jeff Johnson

Project Title: Supermarket Swipe **Grade:** 5th grade

1st Place Award Elementary Lifescience Division

Union University Elementary Team Division Winners:

First Place Elementary Team Winners

Winner: Savannah Diane Blackwell, Mollie Elizabeth Stone, and Aubree Anne Guess

Project: pH of Reelfoot Lake

School: Union City Middle School

Sponsoring Teacher: Mrs. Miller and Mrs. Branch

Second Place Elementary Team Winners

Winner: Logan Hughes; Brandon Johnson; and Hunter Smith

Project: 3 Man verses Henkel Duckster

School: University School of Jackson

Sponsoring Teacher: Jeff Johnson

Union University Junior Physical Science Division:

Winner: Zack Castle **School:** Inman Middle School **Sponsoring Teacher:** Erin Coleman

Project Title: Battery Power **Grade:** 7th grade

Honorable Mention Award Junior Physical Division

Winner: Kayla M. Coleman **School:** Northeast Middle School **Sponsoring Teacher:** Becky Alexander

Project Title: Earthquake and Soil Stability **Grade:** 8th grade

3rd Place Award Junior Physical Division

Winner: Paige Ashlyn Oliver **School:** Dresden Middle School **Sponsoring Teacher:** Cyndi Watson

Project Title: What Are the Effects of Geopathic Stress Line on Photographic Films? **Grade:** 8th grade

2nd Place Award Junior Physical Division

Winner: Taylor Leigh Hargrove **School:** Union City Middle School **Sponsoring Teacher:** Beverly Dones

Project Title: Energy of the Future Wind Power **Grade:** 8th

1st Place Award Junior Physical Division

Union University Junior Lifescience Division:

Winner: Krishna V. Patel **School:** Martin Middle School **Sponsoring Teacher:** Tina Coleman
Project Title: Attractive Crickets **Grade:** 8th grade
Honorable Mention Award Junior Lifescience Division

Winner: Linda McRae **School:** Munford Middle School **Sponsoring Teacher:** Laura Sanders
Project Title: Feed is Money **Grade:** 8th grade
3rd Place Award Junior Lifescience Division

Winner: Sean Edward Donaldson **School:** Covington Integrated Arts **Sponsoring Teacher:** Stephanie Turnbow
Project Title: Are You Talking Dirty **Grade:** 8th grade
2nd Place Award Junior Lifescience Division

Winner: Trebor Briley **School:** Northeast Middle School **Sponsoring Teacher:** Paula Broomfield
Project Title: Water: Is It Equal **Grade:** 7th grade
1st Place Award Junior Lifescience Division

Union University Junior Team Division Winners:

First Place Junior Team Winners

Winner: Madison Blaire Turner and Morgan Leanne Stone
Project: Effects of Soda on Human Teeth
School: Union City Middle School
Sponsoring Teacher: Marsha Stokes

Second Place Junior Team Winners

Winner: Sarah Kathryn Riley and Taylor McKenzie Edwards
Project: Can Shopping Make You Sick
School: Union City Middle School
Sponsoring Teacher: Beverly Dones

Union University Senior Physical Science Division:

Winner: Merissa Brooke Mayo **School:** Gleason High School **Sponsoring Teacher:** Betty Jackson
Project Title: The Anti-Toxic Effects of French Green Clay vs. Alternate Clay **Grade:** 12th grade
Honorable Mention Award Senior Physical Division

Winner: Kelly Arnold **School:** Camden Central High School **Sponsoring Teacher:** Renee Wyatt
Project Title: The Effect of Heat on Various Metals and Their Hardness **Grade:** 9th grade
3rd Place Award Senior Physical Division

Winner: Heather Renee Choate **School:** Gleason High School **Sponsoring Teacher:** Betty Jackson
Project Title: The Effect of Caffeine on Calcium **Grade:** 12th grade
2nd Place Award Senior Physical Division

Winner: Aminda Winters **School:** Camden Central High School **Sponsoring Teacher:** Renee Wyatt
Project Title: Does Heat Given Off by Light Bulbs Increase With Time? **Grade:** 9th
1st Place Award Senior Physical Division. Attend the International Science Fair in Albuquerque New Mexico

Union University Senior Lifescience Division:

Winner: Heather Kee **School:** Camden Central High School **Sponsoring Teacher:** Renee Wyatt
Project Title: The Comparison of Sugar Content in Different Color of Bananas **Grade:** 9th grade
Honorable Mention Award Senior Lifescience Division

Winner: Kayla Elise Hudson **School:** Gleason High School **Sponsoring Teacher:** Betty Jackson
Project Title: A Comparative Study of the Quantities of Beta-Carotene in Ipomoea batatas **Grade:** 12th
3rd Place Award Senior Lifescience Division

Winner: Josh Baltz **School:** Westview High School **Sponsoring Teacher:** Marion Pitts
Project Title: The Effect of Acid Rain and Ultra-Violet Light on the Reproductive Cycle and Lifespan of Triops
Longicaudata **Grade:** 12th grade
2nd Place Award Senior Lifescience Division

Winner: Justin David Dammon **School:** Westview High School **Sponsoring Teacher:** Marion Pitts
Project Title: Is Daphnia Magna Affected by Ammonia Nitrate **Grade:** 12th grade
1st Place Award Senior Lifescience Division. Attend the International Science Fair in Albuquerque New Mexico

Union University Senior Team Division Winners:

First Place Senior Team Winners

Winner: Katherine Davidson and Alicia Warren
Project: The Effects of Nasal Spray on the Human Nasal Skin as Shown by Worms
School: Camden Central High School
Sponsoring Teacher: Renee Wyatt

Second Place Senior Team Winners

Winner: Chris Scott Couch, Melissa Ferrell, and Kristi Loyd
Project: Effects of Acid Rain on Metals
School: Liberty Technology High School
Sponsoring Teacher: Brian Lane