

OZARKS SCIENCE & ENGINEERING FAIR

**HAMMONS STUDENT CENTER
SOUTHWEST MISSOURI STATE UNIVERSITY**

April 5, 6 & 7, 2005



2005 WINNERS

Sponsored By:

Southwest Missouri State University

Clariant

Kraft Foods, Inc.

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2005 AWARD SPONSORS

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MU ALPHA THETA MATHEMATICS HONOR
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WALLACE WEBER MEMORIAL AWARD

WATER ENVIRONMENT FEDERATION

WATERSHED COMMITTEE OF THE OZARKS

YALE SCIENCE & ENGINEERING ASSOCIATION

**SENIOR DIVISION GRAND PRIZE WINNERS
AND ALTERNATES**

**(Grand Prize Awards Sponsored by: Kraft Foods, Inc., 3M Corporation,
E&V Engineers, Clariant, and Associated Electric Cooperative, Inc., and
includes plaques for the Grand Prize Winners and Teachers.)**

GRAND PRIZE Claire Clothiaux
In-Vitro Assay of CaSO₄ and PMMA Impregnated Beads
Greenwood Lab School
Hugh Brewer

GRAND PRIZE Sunny Qiu
IBA Effects on Wild and Domesticated Grapevines
Greenwood Lab School
Dave Davison

FIRST ALTERNATE Miles Barnhart
The Relationship of Dicytomolomia and the Bagworm
Greenwood Lab School
Chris Barnhart

SECOND ALTERNATE Kate Probert
Environmental Estrogen Disruptors
Mansfield HS
Pam Probert

**JUNIOR DIVISION GRAND PRIZE WINNERS
AND ALTERNATE**

**(The Junior Division Grand Prize Award is Sponsored by Conco Companies, and
includes a \$75.00 Cash Award and Plaque for the Grand Prize Winner and Teacher,
and a \$75.00 Cash Award for the Grand Prize Alternate and Teacher.)**

GRAND PRIZE Julie Putman
Zeitgeber: Its Effect on Circadian Rhythms of Chameleons
Pleasant View Middle School
Darlene Henne

ALTERNATE Weston Hunter
Got Gas?
St. Joseph Middle School
Kathryn Keller



WE WANT YOU!



Are you looking for a community service opportunity?

The Ozarks Science & Engineering Fair, the premier middle and high school science competition for southwest Missouri, is currently looking for persons willing to serve on the Steering Committee. The Fair is a regional competition which brings together student scientists and engineers with outstanding research projects. It also serves as an excellent opportunity for students to experience working with local scientists and professionals. Participating students are from a 16 county region which includes: Christian, Dade, Douglas, Greene, Howell, Laclede, Oregon, Ozark, Polk, Pulaski, Shannon, Stone, Taney, Texas, Webster and Wright counties. The Fair itself takes place annually during the first week of April at Hammons Student Center on the campus of Southwest Missouri State University. For more information about the Fair itself, visit http://www.k12science.smsu.edu/OSEF/enter_the_fair!.htm.

The Steering Committee is responsible for the annual production of the Fair, and generally meets about once a month from September to March. Subcommittees include: Elementary Fair, Placement Awards, Special Awards, Registration, Rules & Regulations, Science Day, Volunteers, Publicity, and others. Current members come from all areas of the community, and are bound together by their mutual interest in promoting science and math education, research and careers in the young people of southwest Missouri.

If you would be interested in this unique and rewarding community service opportunity, please complete the form below and leave it in the drop box at the Fair Information Desk.

Yes, I want to be on the Steering Committee!

Name

Address

Phone

Email

THE 2005 JUNIOR DIVISION



PLACEMENT AWARD WINNERS!

JUNIOR DIVISION PLACEMENT AWARDS

BEHAVIORAL AND SOCIAL SCIENCES

- 1st Place: Erin Squires
The Power of Color
Cherokee MS
Jennifer Cvitak
- 2nd Place: Elizabeth Marler
Apparel or Awareness
Springfield Lutheran
Josh Wanner
- Rachael Beard
When It Comes To Tests, Who's
More Stressed?
St. Agnes MS
Lynn Vogel
- 3rd Place: Martin Nguyen
Flying Fingers
St. Agnes MS
Lynn Vogel
- Keriann Lemaster
Which Color is Best?
St. Agnes MS
Lynn Vogel
- 4th Place: Peyton Yocum
Righties vs. Lefties
St. Agnes MS
Lynn Vogel

BIOCHEMISTRY

- 1st Place: Weston Hunter
Got Gas?
St. Joseph MS
Kathryn Keller
- 2nd Place: Jordyn Chelf
Who Are You?
St. Agnes MS
Lynn Vogel
- 3rd Place: Bryn Prater & Sara Swango
Do Some Protein Digesting
Enzymes Found in Some Fruit
Dissolve Gelatin?
Central MYSP
Nova Mrad
- 4th Place: Shayon Sikander
Beans Creating Gas
Cherokee MS
Jackie Hutcherson

BOTANY

- 1st Place: Emily Dodd
To Plant or Not to Plant
Marshfield JH
Kimberly Potter
- 2nd Place: Michelle Rathe
How Tall Did They Grow?
Cherokee MS
Jackie Hutcherson
- Anisha Rimal
A Growing Experience
Cherokee MS
Jackie Hutcherson
- 3rd Place: Seth Greer
Plant Cell Preservation
Marshfield JH
Aaron Tillman
- Rachel Herron
Nuke Your Veggies
St. Agnes MS
Lynn Vogel
- 4th Place: Andrew Ford
Preserving Floral Life
Immaculate Conception
Heather Cooke
- Brittany Donellan &
Elizabeth Kaatz
If You Can't Stand the Heat, Stay
Out of the Microwave
Central MYSP
Nova Mrad

CHEMISTRY

- 1st Place: Logan Green
Soft Science
St. Agnes MS
Lynn Vogel
- 2nd Place: Matt Medley
Which Water?
St. Agnes MS
Lynn Vogel
- Dylan Wyatt
The Oscillating Clock Reaction
Springfield Lutheran
Josh Wanner
- 3rd Place: Jake Ankrom
Citrus Power
Halfway MS
Rodney Delmont

CHEMISTRY (cont.)

- John Cunningham
Suds or Duds?
Marshfield JH
Kimberly Potter
- 4th Place: Taylor Barth
Things Are Heating Up
Marshfield JH
Kimberly Potter
- Audrey Creasy
Polishing Pennies
Marshfield JH
Kimberly Potter

COMPUTER SCIENCE

- 1st Place: Matthew Bird
Visual Basic Game Program
St. Agnes MS
Lynn Vogel
- 2nd Place: Cody Clements
Finding Files
St. Joseph MS
Kathryn Keller

EARTH AND SPACE SCIENCES

- 1st Place: Toryana Vestal
It's Raining Micrometeorites
Pleasant View MS
Darlene Henne
- 2nd Place: Matthew Oelschaeger
Using SOHO to Determine the
Rotation of the Sun
St. Agnes MS
Lynn Vogel
- 3rd Place: Chase Eck
Spongy Rocks
St. Agnes MS
Lynn Vogel
- 4th Place: Emma McIntyre &
Laurel O'Reilly
Homemade Weather Devices: So
They Really Match Up?
Central MYSP
Nova Mrad

ENGINEERING

- 1st Place: Natalie Rooney & Lara Bower
Whoosh!
Cherokee MS
Jennifer Cvitak

JUNIOR DIVISION PLACEMENT AWARDS

ENGINEERING (cont.)

2nd Place: Andrew Griesemer
Icy-Hot Attraction
Immaculate Conception
Heather Cooke

3rd Place: Michael Derlicki
Lava Java
St. Agnes MS
Lynn Vogel

4th Place: Sam Carter
Paint Coverage
Cherokee MS
Jackie Hutcherson

ENVIRONMENTAL SCIENCES

1st Place: Casey Carroll
Do You Really Know Your DO?
Cherokee MS
Jackie Hutcherson

2nd Place: MacKenzie Lutz
Clean Enough to Drink
Cherokee MS
Jackie Hutcherson

3rd Place: Chris Mantei
Do Stream Bugs Like Heavy
Metals?
St. Agnes MS
Lynn Vogel

4th Place: Stephan Tipton
Dirty Water
St. Agnes MS
Lynn Vogel

MATHEMATICS

1st Place: Geoffrey Havens
Show Me the Money
St. Agnes MS
Lynn Vogel

2nd Place: Ryan Veatch
Mathematical Patterns in Bach's
Two-Movement Preludes and
Fugues
Thayer JH
Peggy Veatch

3rd Place: Erin Cameron & Lauren Kerivan
Dice Probabilities
Central MYSP
Nova Mrad

MATHEMATICS (cont.)

4th Place: Erin Hargis
If You Don't Know It, Guess It
St. Agnes MS
Lynn Vogel

MEDICINE AND HEALTH

1st Place: Jacob Keeney
The Effect of Diet on Blood
Clotting Time
Cherokee MS
Jackie Hutcherson

2nd Place: Sarah Beasley
Survey of Mercury in Springfield
Lakes
Greenwood Lab School
Dave Davison

Kirtana Viswanathan
Beauty is Not Skin Deep
St. Agnes MS
Lynn Vogel

Kiley Husling
Got Iontophoresis?
Cherokee MS
Jackie Hutcherson

3rd Place: Ivan Camejo
Smoking Babies
St. Agnes MS
Lynn Vogel

Erica Ramsey
No Bones About It
Cherokee MS
Jackie Hutcherson

Cait Harris
Sky High Blood Sugar
Cherokee MS
Jackie Hutcherson

4th Place: Kevin Rice
Eye Spy
Immaculate Conception
Heather Cooke

Broc Wolfe
Which Worm Wins
Pleasant View MS
Darlene Henne

Derek Seery
Milk Mixing
Marshfield JH
Kimberly Potter

MICROBIOLOGY

1st Place: Jason Nunn
Effect of UV Light on Bacterial
Growth
Cherokee MS
Jackie Hutcherson

2nd Place: Abbie Tinlin
Bread Mold
St. Joseph MS
Kathryn Keller

3rd Place: Tyler Smith & J B Long
Will Caffeine & Sugar Affect Your
Heart?
Central MYSP
Nova Mrad

4th Place: Celka Ojakangas
Sweet & Low or Sweet & Grow?
Pleasant View MS
Sherry Ince

PHYSICS

1st Place: Meghan Arnall
Rollin' Coasters
Immaculate Conception
Heather Cooke

2nd Place: Daniel Pasquale
How to Weigh an Amount of Air
Immaculate Conception
Heather Cooke

Daniel Kick
The Troublesome Trebuchet
Central MYSP
Nova Mrad

Garrett Comman
Wood Block Rally
Marshfield JH
Kimberly Potter

3rd Place: Mark Simon
Soakin' Up Some Sun
Central MYSP
Nova Mrad

Elliott Wityk
Speedy Robot
Cherokee MS
Jackie Hutcherson

Jessica Maerz
Looney Tunes
St. Agnes MS
Lynn Vogel

JUNIOR DIVISION PLACEMENT AWARDS

PHYSICS (cont.)

Samuel Boone
Can You Hear Me Now?
St. Agnes MS
Lynn Vogel

4th Place: Ryan Tate
Rubber Bands Under Heat
Spokane MS
Jennifer Wheeler

Daniel Gore
Bouncing Balls
Marshfield JH
Aaron Tillman

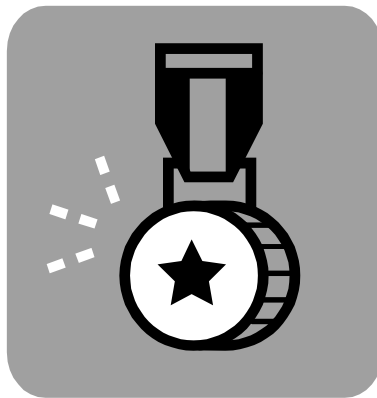
ZOOLOGY

1st Place: Julie Putman
Zeitgeber: Its Effect on Circadian
Rhythms of Chameleons
Pleasant View MS
Darlene Henne

2nd Place: Derek Wallis
Feeding Heifers
Clever MS
Robin Swain

3rd Place: Lonnie Gunter
Acid Affects Tongue Flicks
Skyline R-2
Lannie Hinote

THE 2005 SENIOR DIVISION



PLACEMENT AWARD WINNERS!

SENIOR DIVISION PLACEMENT AWARDS

BEHAVIORAL AND SOCIAL SCIENCES

1st Place: Shane Algieri
Does the MLIU Increase Lucid
Dreaming?
Greenwood Lab School
Hugh Brewer

2nd Place: Craig Campbell
Childhood Obesity
Mansfield HS
Pam Probert

3rd Place: Marqee Snokhous
The Effects of Visual Field
Size on Judged Distance
Mansfield HS
Pam Probert

4th Place: April Risner
Color Confusion
Thayer HS
Peggy Veatch

BIOCHEMISTRY

1st Place: Christine Crain
Effects of Fermented Feeds
on Rumen Bacteria
Hartville HS
Glen Boyer

2nd Place: Chelsea House
Effects of Natural Alleotropes
on Monocots and Dicots
Mansfield HS
Pam Probert

3rd Place: Brandon Moore
Breakdown of Feathers for
Protein in Feeds
Hartville HS
Glen Boyer

4th Place: Jody Ogden
Environmental Conditions on
a Symbiotic Relationship
Hartville HS
Glen Boyer

BOTANY

1st Place: Sunny Qiu
IBA Effects on Wild &
Domesticated Grapevines
Greenwood Lab School
Dave Davison

BOTANY (cont.)

2nd Place: Brooke Lawrence
The Effects of Anti-Oxidants
on Cancer Inhibitors
Greenwood Lab School
Hugh Brewer

3rd Place: Elizabeth Massey
Introduction of Plant Cancer
Cells to Vegetative Clones
Hartville HS
Glen Boyer

4th Place: Amanda Hilton &
Rebecca Barlett
Interspecific Plant Competition
Mansfield HS
Pam Probert

CHEMISTRY

1st Place: Robert Busiek
Can Ketone Concentration in
Diabetics Be Tested?
Greenwood Lab School
Hugh Brewer

2nd Place: Tyler Williams
Combusted Gases to Aid in
Fire Fighting
Hartville HS
Glen Boyer

3rd Place: Lauren Bishop
Organic or Not?
Hillcrest HS
Jill Johnson

4th Place: Lillian Olive & Rachael Miles
Time for a Tasty Treat: The
Art of Popping Corn
Hillcrest HS
Jennifer Saylor

EARTH/SPACE SCIENCE

1st Place: Kathryn Bryant
Plate Motion & Eruption
Frequency
Kickapoo HS
Richard Snyder

2nd Place: Aaron Baker
The Effects of Wood Chips on
Soil
Hartville HS
Luke Boyer

EARTH/SPACE SCIENCE (cont.)

3rd Place: Erin Bax
The Use of High Humidity Air
for Plant Growth
Hartville HS
Glen Boyer

4th Place: Toby Shelhamer &
Ryan Wright
Effects of Far Wave Lengths
on Plants
Mansfield HS
Pam Probert

ENGINEERING

1st Place: Sam Rue
Production of Construction
Materials from Organic Waste
Hartville HS
Glen Boyer

2nd Place: Cassie Sanders
The Effect of Coating
Treatments on the Rate of
Corrosion
Mansfield HS
Pam Probert

3rd Place: Josh Shaver
Development of an All-
Terrain-Wise Headlight in
ATVs
Hartville HS
Glen Boyer

4th Place: Cody Roush & William Phillips
London Bridge is Falling
Down: Comparison of Weight
Length of Bridges to Their
Capacity
Central HS
Nova Mrad

ENVIRONMENTAL SCIENCES (sponsored by Kraft Foods, Inc.)

1st Place: Kate Probert
Environmental Estrogen
Disruptors
Mansfield HS
Pam Probert

2nd Place: Jordan Roberts
Contaminations on Insect
Pulp Construction
Hartville HS
Glen Boyer

SENIOR DIVISION PLACEMENT AWARDS

ENVIRONMENTAL SCIENCES

(sponsored by Kraft Foods, Inc.) (cont.)

3rd Place: Rochelle Justus
The Effects of Everyday
Drinks on Plant Growth
Hillcrest HS
Jill Johnson

4th Place: Ann Moran
What's in Your Water?
Hillcrest HS
Jill Johnson

Carley Keith
The Effects of Phosphorous
on Duckweed
Hartville HS
Luke Boyer

MATHEMATICS

1st Place: William Vandergrift
Wireless RS-232 PC Data
Control
Hartville HS
Glen Boyer

2nd Place: Kristin Campbell
Application of Pick's Theorem
Mansfield HS
Pam Probert

3rd Place: Alex Miller
Board Game on a Computer
Mansfield HS
Pam Probert

4th Place: Alice Lawrence
Betcha Can't Price Just One
Hillcrest HS
Jennifer Saylor

MEDICINE AND HEALTH

1st Place: Claire Clothiaux
In Vitro Assay of CaSO₄ and
PMMA Impregnated Beads
Greenwood Lab School
Hugh Brewer

2nd Place: Andrew Miller
You've Got Gall
Greenwood Lab School
Dave Davison

MEDICINE AND HEALTH (cont.)

3rd Place: Jessica Biekert
Brown Recluse Toxin Effects
on Dermis of Lumbricus
Terrestris
Hartville HS
Glen Boyer

4th Place: Shane Novell
Use of Beta Carotenes in
Cataract Prevention
Mansfield HS
Pam Probert

MICROBIOLOGY

1st Place: Katie Loomis
Effects of Parasite Control
Chemicals on Soil
Hartville HS
Glen Boyer

2nd Place: Philip Clothiaux
Backpackers Bug Juice
Greenwood Lab School
Dave Davison

3rd Place: Tim Shelhamer
Mutagenicity of Orthene
Pesticide on a Non-Target
Organism
Mansfield HS
Pam Probert

4th Place: Braden Pitts
Treating Acidic Feeds with
Sodium Bicarbonate
Hartville HS
Glen Boyer

PHYSICS

1st Place: William Flynn
Development of a Muffler with
Sound-Absorbing Baffles
Hartville HS
Glen Boyer

2nd Place: Christopher Doria
The Better Ballistic Gel
Greenwood Lab School
Hugh Brewer

Marilyn Moore
Noise Abatement in
Convertible Top Design
Kickapoo HS
Jill Palmer

PHYSICS (cont.)

3rd Place: Jon Haghayeghi
Pressure's Interference With
Magnetic Fields
Greenwood Lab School
Hugh Brewer

Charli Steed
The Effects of the Motion Path
of the Downswing and
Upswing of the Golf Swing
Thayer HS
Peggy Veatch

4th Place: Nathan Redd
To the 1,000,000th Floor,
Please
Halfway HS
Rodney Delmont

Brian Kincaid
Collection & Concentration of
Short-Wave Radiation
Greenwood Lab School
Hugh Brewer

ZOOLOGY

1st Place: Miles Barnhart
The Relationship of
Dicytomolomia and the
Bagworm
Greenwood Lab School
Chris Barnhart

2nd Place: Nyessa Briggs
Ants: Sweet Or Sour
Hillcrest HS
Jill Johnson

3rd Place: Jamie Crider
Herbicide Effects on Juvenile
Spiders
Hartville HS
Glen Boyer

4th Place: Adam Keith
Effects of Salt Water Intrusion
on Invertebrates
Mansfield HS
Pam Probert

THE 2005
JUNIOR & SENIOR
DIVISION



SPECIAL AWARD
WINNERS!

SPECIAL AWARDS

AEROSPACE SUMMIT – CONSTELLATION CLUB – TROPHIES ETC.

Plaque & \$25 Cash

Junior Division: Toryana Vestal
It's Raining
Micrometeorites
Pleasant View MS

Chase Eck
Spongy Rocks
St. Agnes MS

Caleb Witt
Am I Shrinking?
St. Joseph MS

Plaque & \$50 Cash

Junior Division: Matthew Oelschlaeger
Using SOHO to
Determine the Rotation of
the Sun
St. Agnes MS

Senior Division: Danny McCorkendale
A New Rocket Fuel
Buffalo HS

AMERICAN CHEMICAL SOCIETY, OZARKS SECTION

The Ozark ACS Award is given to both the student and the sponsoring teacher.

Junior Division: Jordan Chastain &
Shelby Bass
Temperature vs. Stains
Billings JH
Carolyn Mulkey

Senior Division: Tyler Williams
Combusted Gases to Aid
in Firefighting
Hartville HS
Glen Boyer

AMERICAN METEOROLOGICAL SOCIETY

Certificate of Award

Junior Division: Kristen Bertoldie
Tornado in a Box
Marshfield JH

AMERICAN PSYCHOLOGICAL ASSOCIATION AND TEACHERS OF PSYCHOLOGY IN SECONDARY SCHOOLS

Certificate of Award

Senior Division: Shane Algieri
Does MLIU Increase
Lucid Dreaming?
Greenwood Lab School

AMERICAN SOCIETY OF MAMMALOGISTS

Certificates of Award

Junior Division: Angela Thuro
Generations of Cavies
Immaculate Conception

Patrick Nace
In the Life of an Elephant
St. Agnes MS

THE ASM INTERNATIONAL FOUNDATION

Certificate of Award

Senior Division: Cassie Sanders
The Effect of Coating
Treatments on the Rate of
Corrosion
Mansfield HS

THE ASSOCIATION OF WOMEN GEOSCIENTISTS

Certificate of Recognition

Senior Division: Kathryn Bryant
Plate Motion & Eruption
Frequency
Kickapoo HS

BAKER CHAIR OF INSURANCE/GAMMA IOTA SIGMA AWARD

\$25 Cash and Certificate of Achievement

Senior Division: Kathryn Bryant
Plate Motion & Eruption
Frequency
Kickapoo HS

Tyler Williams
Combusted Gases to Aid
in Firefighting
Hartville HS

IRENE BRUNER MEMORIAL AWARD

\$25 Cash and Certificate (if given to partners, cash prize will be divided equally)

Junior Division: Starlyn Murphy
Color Before the Season
Cherokee MS

Brittany Donnellan &
Elizabeth Kaatz
If You Can't Stand the
Heat, Stay Out of the
Microwave
Central MYSP

CITY OF SPRINGFIELD – SOLID WASTE DIVISION

Recycled Plastic Soda Bottle T-Shirt

Junior Division: Devon Bench
Grain Size and Its Effect
on H₂O Absorption
Pleasant View MS

Valerie Effland
Better Mulch?
Cherokee MS

Deirdre Irwin
Apples Gone Bad
Marshfield JH

CITY UTILITIES OF SPRINGFIELD

\$200 Cash

Junior Division: Sarah Beasley
Survey for Mercury in
Springfield Area Lakes
Greenwood Lab School

Senior Division: Lauren Moore
Is It Hot In Here To You?
Hillcrest HS

COMMUNITY HOSPICE OF AMERICA

\$25 Gift Cards for Outstanding Invention

Junior Division: Zac Pittman
Dogs Dogs Dogs
Cherokee MS

Laura Stevens
Should You Take a Puff?
Cherokee MS

SPECIAL AWARDS

THE DISCOVERY CHANNEL YOUNG SCIENTIST CHALLENGE

2005 DCYSC Entry Booklet, 2005 DCYSC Certificate of Recognition, and 2005 DCYSC Lapel Pin

Junior Division: Erin Squires
Cherokee MS

Elizabeth Marler
Springfield Lutheran

Rachael Beard
St. Agnes MS

Weston Hunter
St. Joseph MS

Jordyn Chelf
St. Agnes MS

Emily Dodd
Marshfield JH

Michelle Rathe
Cherokee MS

Anisha Rimal
Cherokee MS

Logan Green
St. Agnes MS

Matt Medley
St. Agnes MS

Dylan Wyatt
Springfield Lutheran

Matthew Bird
St. Agnes MS

Cody Clements
St. Joseph MS

Toryana Vestal
Pleasant View MS

Matthew Oelschlaeger
St. Agnes MS

Natalie Rooney
Cherokee MS

Lara Bower
Cherokee MS

Andrew Griesemer
Immaculate Conception

THE DISCOVERY CHANNEL YOUNG SCIENTIST CHALLENGE (cont.)

Casey Carroll
Cherokee MS

MacKenzie Lutz
Cherokee MS

Geoffrey Havens
St. Agnes MS

Ryan Veatch
Thayer JH

Jacob Keeney
Cherokee MS

Sarah Beasley
Greenwood Lab School

Kiley Husling
Cherokee MS

Kirtana Viswanathan
St. Agnes MS

Jason Nunn
Cherokee MS

Abbie Tinlin
St. Joseph MS

Meghan Arnall
Immaculate Conception

Daniel Pasquale
Immaculate Conception

Daniel Kick
Central MYSB

Garrett Comman
Marshfield JH

Julie Putman
Pleasant View MS

Derek Walles
Clever MS

DRURY UNIVERSITY

3 Hours Undergraduate Credit to each Senior High First Place Award Winner

Senior Division: Shane Algieri
Does the MLIU Increase
Lucid Dreaming?
Greenwood Lab School

DRURY UNIVERSITY (cont.)

Christine Crain
Effects of Fermented Feeds on Rumen Bacteria
Hartville HS

Sunny Qiu
IBA Effects on Wild & Domesticated Grapevines
Greenwood Lab School

Robert Busiek
Can Ketone Concentration in Diabetics Be Tested?
Greenwood Lab School

Kathryn Bryant
Plate Motion & Eruption Frequency
Kickapoo HS

Sam Rue
Production of Construction Materials from Organic Waste
Hartville HS

Kate Probert
Environmental Estrogen Disruptors
Mansfield HS

William Vandergrift
Wireless RS-232 PC Data Control
Hartville HS

Claire Clothiaux
In Vitro Assay of CaSO₄ & PMMA Impregnated Beads
Greenwood Lab School

Katie Loomis
Effects of Parasite Control Chemicals on Soil
Hartville HS

William Flynn
Development of a Muffler with Sound-Absorbing Baffles
Hartville HS

SPECIAL AWARDS

DRURY UNIVERSITY (cont.)

Miles Barnhart
The Relationship of
Dicymolomia and the
Bagworm
Greenwood Lab School

*6 Hours Undergraduate Credit to the Senior
High Grand Prize Award Winners*

Senior Division: Claire Clothiaux
In Vitro Assay of CaSO₄ &
PMMA Impregnated
Beads
Greenwood Lab School

Sunny Qiu
IBA Effects on Wild &
Domesticated Grapevines
Greenwood Lab School

EASTMAN-KODAK PHOTOGRAPHY AWARD

*Kodak digital 35mm one-use camera for
student and teacher, plus Certificate of Award*

Senior Division: Christopher Doria
The Better Balistic Gel
Greenwood Lab School
Hugh Brewer

EVANGEL UNIVERSITY

*\$1,500 Scholarship to each Senior Division
First Place Winner*

Senior Division: Shane Algieri
Does the MLIU Increase
Lucid Dreaming?
Greenwood Lab School

Christine Crain
Effects of Fermented
Feeds on Rumen Bacteria
Hartville HS

Sunny Qiu
IBA Effects on Wild &
Domesticated Grapevines
Greenwood Lab School

Robert Busiek
Can Ketone
Concentration in Diabetics
Be Tested?
Greenwood Lab School

EVANGEL UNIVERSITY (cont.)

Kathryn Bryant
Plate Motion & Eruption
Frequency
Kickapoo HS

Sam Rue
Production of
Construction Materials
from Organic Waste
Hartville HS

Kate Probert
Environmental Estrogen
Disruptors
Mansfield HS

William Vandergrift
Wireless RS-232 PC Data
Control
Hartville HS

Claire Clothiaux
In Vitro Assay of CaSO₄ &
PMMA Impregnated
Beads
Greenwood Lab School

Katie Loomis
Effects of Parasite Control
Chemicals on Soil
Hartville HS

William Flynn
Development of a Muffler
with Sound-Absorbing
Baffles
Hartville HS

Miles Barnhart
The Relationship of
Dicymolomia and the
Bagworm
Greenwood Lab School

*\$2,500 Scholarship to each Senior Division
Grand Prize Winner*

Senior Division: Claire Clothiaux
In Vitro Assay of CaSO₄ &
PMMA Impregnated
Beads
Greenwood Lab School

Sunny Qiu
IBA Effects on Wild &
Domesticated Grapevines
Greenwood Lab School

EXPANDING YOUR HORIZONS: WOMEN IN SCIENCE

Science "Surprise Bag"

Junior Division: Natalie Rooney &
Lara Bower
Whoosh!
Cherokee MS

Jessica Maerz
Looney Tunes
St. Agnes MS

GREATER OZARKS AUDUBON SOCIETY

Environmental Awareness Award

Junior Division: James Barber
Bird Surprise
Marshfield JH

THE GREENE COUNTY GROUNDWATER GUARDIAN AWARD (sponsored by the GREENE COUNTY RESOURCE MANAGEMENT DEPARTMENT)

*Award Certificate and Environmental Activity
Participation*

Junior Division: Casey Carroll
Do You Know Your DO?
Cherokee MS

HERBERT HOOVER PRESIDENTIAL LIBRARY ASSOCIATION "YOUNG ENGINEER AWARD"

Certificate of Award and Medallion

Senior Division: Cassie Sanders
The Effect of Coating
Treatments on the Rate of
Corrosion
Mansfield HS

HORAN & BECKER MEDICAL SCIENCE AWARD (sponsored by HORAN & BECKER, DDS, AFFILIATED ORAL SURGEONS)

\$100 Health Science Award

Senior Division: Kendra Weatherford &
Julie Wootton
The Price Is Right?
Hillcrest HS

SPECIAL AWARDS

INTEL EXCELLENCE IN COMPUTER SCIENCE AWARD

\$200 Cash and Certificate of Award

Senior Division: William Vandergrift
Wireless RS-232 PC Data Control
Hartville HS

INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERS

Certificate of Award

Junior Division: Kevin Rice
Eye Spy
Immaculate Conception

THE 2005 KRAFT AWARD (sponsored by Kraft Foods, Inc.)

\$50 Cash Award (if given to partners, each partner will receive \$50)

Senior Division: Cassie Sanders
The Effects of Coating Treatments on Rates of Corrosion
Mansfield HS

Michelle Beier
Keep Your Eyes On Your Tongue
Hillcrest HS

Josh Shaver
Development of an All-Terrain-Wise Headlight in ATVs

William Vandergrift
Wireless RS-232 PC Data Control
Hartville HS

MARTIAL ARTS USA

\$75 Cash and free month of Tae Kwon Do membership

Junior Division: Cory McVey
At Your Max
Immaculate Conception

MISSOURI DEPARTMENT OF CONSERVATION

1st Place: Plaque & Conservation Guide with Magazine Subscription

Junior Division: Chris Mantei
Do Stream Bugs Like Heavy Metals?
St. Agnes MS

Senior Division: Miles Barnhart
The Relationship of Dicylomolomia and the Bagworm
Greenwood Lab School

2nd place: Certificate & Conservation Award with Magazine Subscription

Junior Division: Samantha Jenkins
Nature's Blankets
Cherokee MS

Ashley Perryman
Overcome the Chill
Niangua MS

Senior Division: Jamie Crider
Herbicide Effects on Juvenile Spiders
Hartville HS

Chelsea House
Effects of Natural Alleotropes on Monocots & Dicots
Mansfield HS

Honorable Mention: Conservationist Subscription

Junior Division: Jordan Phillabaum
Praying to Hatch
Cherokee MS

Stephan Tipton
Dirty Water
St. Agnes MS

Ian Kenny
Go With the Flow
Cherokee MS

Ariel White & Cassandra Roberts
Which Bird House Will Absorb the Most Sunlight?
Central MYSP

MISSOURI DEPARTMENT OF CONSERVATION (cont.)

Deidre Irwin
Apples Gone Bad
Marshfield JH

MISSOURI OPTOMETRIC ASSOCIATION

\$100 Cash and Plaque

Junior Division: Kevin Rice
Eye Spy
Immaculate Conception

MISSOURI SOCIETY OF PROFESSIONAL ENGINEERS, Ozarks Chapter

\$100 Cash

Senior Division: Cassie Sanders
The Effects of Coating Treatments on the Rate of Corrosion
Mansfield HS

\$75 Cash

Junior Division: Andrew Griesemer
Icy-Hot Attraction
Immaculate Conception

MISSOURI SOLAR ENERGY ASSOCIATION

Certificates of Award & Calculators

Junior Division: Matthew Oelschaeger
Using SOHO to Determine the Rotation of the Sun
St. Agnes MS

Senior Division: Brian Kincaid
Collection & Concentration of Short-Wave Radiation
Greenwood Lab School

Justin Leirz
Solar H2O
Hillcrest HS

LOU & NADINE MOORE MEMORIAL AWARD

\$50 Cash Award to the top Junior Division projects covering Education or Special Needs

Junior Division: Cayleigh Medina
The Color of Memory
Cherokee MS

SPECIAL AWARDS

LOU & NADINE MOORE MEMORIAL AWARD (cont.)

Megan Hughes
Babies Gone Wild
St. Agnes MS

MU ALPHA THETA NATIONAL MATHEMATICS HONOR SOCIETY

Certificate of Award

Senior Division: Kristin Campbell
Application of Pick's
Theorem
Mansfield HS

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

Certificate of Award in folder & lapel pin

Senior Division: Sam Rue
Production of
Construction Materials
from Organic Waste
Hartville HS

OZARK AREA PSYCHOLOGICAL ASSOCIATION

A First Place Certificate

Senior Division: Shane Algieri
Does the MLIU Increase
Lucid Dreaming?
Greenwood Lab School

A Second Place Certificate

Senior Division: Caleb Moon
"Barbie Doll" Syndrome:
What Society Sees as
Ideal
Hartville HS

A Third Place Certificate

Senior Division: Marqee Snokhous
Effects of Visual Field
Size on Judged Distance
Mansfield HS

A Fourth Place Certificate

Senior Division: Craig Campbell
Childhood Obesity
Mansfield HS

POSITRONIC INDUSTRIES RESEARCH AWARD

Certificates of Award and Desk Clocks to Students

Junior Division: Conor McCaskill
Weighing in on Basketball
St. Agnes MS

Erich Hufford
Science in Motor Sports
St. Joseph MS

Miles Kimbrough
Shutter Speed Sharpness
Cherokee MS

Rachael Beard
When it Comes to Tests,
Who's More Stressed?
St. Agnes MS

Jordyn Chelf
Who Are You?
Pleasant View MS

Ben Conway
Domain Diversity
St. Agnes MS

Logan Green
Soft Science
St. Agnes MS

Matt Medley
Which Water?
St. Agnes MS

RICOH CORPORATION

Certificate of Award & Subscription to Science Magazine

Senior Division: Kate Probert
Environmental Estrogen
Disruptors
Mansfield HS

SCHNEIDER FOUNDATION (in cooperation with the Community Foundation of the Ozarks)

\$200 Cash and Certificates

Junior Division: Julie Putman
Zeitgeber: Its Effect on
Circadian Rhythms of
Chameleons
Pleasant View MS

SCHNEIDER FOUNDATION (in cooperation with the Community Foundation of the Ozarks) (cont.)

Weston Hunter
Got Gas?
St. Joseph MS

Natalie Rooney &
Lara Bower
Whoosh!
Cherokee MS

Casey Carroll
Do You Know Your DO?
Cherokee MS

Jacob Keeney
The Effect of Diet on
Blood Clotting Time
Cherokee MS

\$500 Cash & Certificate

Senior Division: Claire Clothiaux
In Vitro Assay of CaSO₄&
PMMA Impregnated
Beads
Greenwood Lab School

Sunny Qiu
IBA Effects on Wild &
Domesticated Grapevines
Greenwood Lab School

Kate Probert
Environmental Estrogen
Disruptors
Mansfield HS

Robert Busiek
Can Ketone
Concentration in Diabetics
Be Tested?
Greenwood Lab School

Sam Rue
Production of
Construction Materials
from Organic Waste
Hartville HS

SPECIAL AWARDS

THE SMITH-GLYNN-CALLOWAY MEDICAL FOUNDATION AWARD

\$100 Cash Award

Junior Division: Broc Wolfe
Which Worm Wins?
Pleasant View MS

Kirtana Viswanathan
Beauty is Not Skin Deep
St. Agnes MS

Julian Koenig
Hand Soap vs. Hand
Sanitizer
St. Agnes MS

Shayan Sikander
Beans Creating Gas
Cherokee MS

\$150 Cash Award

Senior Division: Andrew Miller
You've Got Gall
Greenwood Lab School

Raymond Plaster
Sodium Polyacrylate in
Bandages
Greenwood Lab

Shane Norell
Use of beta-Carotenes in
Cataract Prevention
Mansfield HS

Claire Clothiaux
In Vitro Assay of CaSO₄&
PMMA Impregnated
Beads
Greenwood Lab School

SOCIETY FOR IN VITRO BIOLOGY

Certificate of Award

Senior Division: Julie Hutton
Impact of Salicylic Acid on
Symbiotic Relations
Mansfield HS

SOCIETY OF MANUFACTURING ENGINEERS

Palm Pilots

Junior Division: Natalie Rooney &
Lara Bower
Whoosh!
Cherokee MS

Senior Division: William Vandergrift
Wireless RS-232 PC Data
Control
Hartville HS

Cassie Sanders
The Effect of Coating
Treatments on the Rate of
Corrosion
Mansfield HS

SMSU DEPARTMENT OF BIOLOGY

Certificates to student and plaques to teachers

Junior Division: Michelle Rathe
How Tall Did They Grow?
Cherokee MS

Christopher Mantei
Do Stream Bugs Like
Heavy Metals?
St. Agnes

Julie Putman
Zeitgeber: Its Effects on
Circadian Rhythms of
Chameleons
Pleasant View MS

Kirtana Viswanathan
Beauty is Not Skin Deep
St. Agnes MS

Jason Nunn
Effect of UV Light on
Bacterial Growth
Cherokee MS

Certificates to student and plaques to teachers

Senior Division: Sunny Qiu
IBA Effects on Wild &
Domesticated Grapevines
Greenwood Lab School

SMSU DEPARTMENT OF BIOLOGY (cont.)

Miles Barnhart
The Relationship of
Dicymolomia and the
Bagworm
Greenwood Lab School

Claire Clothiaux
In Vitro Assay of CaSO₄&
PMMA Impregnated
Beads
Greenwood Lab School

Katie Loomis
Effects of Parasite Control
Chemicals on Soil
Hartville HS

Kate Probert
Environmental Estrogen
Disruptors
Mansfield HS

\$1,000 Work/Study Award

Senior Division: Kate Probert
Environmental Estrogen
Disruptors
Mansfield HS

SMSU COLLEGE OF NATURAL AND APPLIED SCIENCES

\$50 Cash

Junior Division: Julie Putman
Zeitgeber: Its Effects on
Circadian Rhythms of
Chameleons
Pleasant View MS

Senior Division: Claire Clothiaux
In Vitro Assay of CaSO₄&
PMMA Impregnated
Beads
Greenwood Lab School

Sunny Qiu
IBA Effects on Wild &
Domesticated Grapevines
Greenwood Lab School

SPECIAL AWARDS

SMSU DEPT. OF COMMUNICATION SCIENCES & DISORDERS AWARD

\$50 Cash Award

Senior Division: Travis Lewing
Effects of Sound Waves
on Cockroaches
Greenwood Lab School

UNITED STATES AIR FORCE

Electronic planners and binders

Senior Division: Nathan Redd
To the 1,000,000th Floor,
Please
Halfway HS

Danny McCorkendale
A New Rocket Fuel
Buffalo HS

Kathryn Bryant
Plate Motion & Eruption
Frequency
Kickapoo HS

William Vandergrift
Wireless RS-232 PC Data
Control
Hartville HS

UNITED STATES ARMY

Bronze Medallion and Certificate of Achievement

Senior Division: Kristin Campbell
Application of Pick's
Theorem
Mansfield HS

Jordan Roberts
Contaminations on Insect
Pulp Construction
Hartville HS

Polo shirt and Certificate of Achievement

Senior Division: Elizabeth Massey
Introduction of Plant
Cancer Cells to
Vegetative Clones
Hartville HS

Sam Rue
Production of
Construction Materials
from Organic Waste
Hartville HS

UNITED STATES ARMY (cont.)

Lauren Moore
Is It Hot In Here To You?
Hillcrest HS

UNITED STATES DEPARTMENT OF HEALTH & HUMAN SERVICES

Certificate of Award

Senior Division: Jessica Biekert
Brown Recluse Toxin
Effects on Dermis of
Lumbricus Terrestris
Hartville HS

UNITED STATES METRIC ASSOCIATION

Certificate of Award

Senior Division: Miles Barnhart
The Relationship of
Dicymolomia and the
Bagworm
Greenwood Lab School

UNITED STATES NAVY/MARINE CORPS

Award Letter & Medallions

Junior Division: Matthew Bird
Visual Basic Game
Program
St. Agnes

Cody Clements
Finding Files
St. Joseph MS

Kristen Bertoldie
Tornado in a Box
Marshfield JH

Toryana Vestal
It's Raining
Micrometeorites
Pleasant View MS

Chase Eck
Spongy Rocks
St. Agnes MS

Matthew Oelschlaeger
Using SOHO to
Determine the Rotation of
the Sun
St. Agnes MS

UNITED STATES NAVY/MARINE CORPS (cont.)

Sam Carter
Paint Coverage
Cherokee MS

Andrew Griesemer
Icy-Hot Attraction
Immaculate Conception

Michael Derlicki
Lava Java
St. Agnes MS

Certificate of Award, Award Letter and \$50 Gift Certificate

Senior Division: William Flynn
Development of a Muffler
with Sound-Absorbing
Baffles
Hartville HS

Jon Haghayeghi
Pressure's Interference
With Magnetic Fields
Greenwood Lab School

Brian Kincaid
Collection &
Concentration of Short-
Wave Radiation
Greenwood Lab School

Alex Miller
Board Game on a
Computer
Mansfield HS

William Vandergrift
Wireless RS-232 PC Data
Control
Hartville HS

Marilyn Moore
Noise Abatement in
Convertible Top Design
Kickapoo HS

Sunny Qiu
IBA Effects on Wild &
Domesticated Grapevines
Greenwood Lab School

SPECIAL AWARDS

WALLACE WEBER MEMORIAL AWARD FOR BOTANY

\$60 Cash Award for Outstanding Botany Project

Senior Division: Elizabeth Massey
Introduction of Plant
Cancer Cells to
Vegetative Clones
Hartville HS

WATER ENVIRONMENT FEDERATION

Certificate of Award and Folder

Senior Division: Ann Moran
What's In Your Water?
Hillcrest HS

WATERSHED COMMITTEE OF THE OZARKS

\$50 Cash Award

Junior Division: Ian Kennedy
Go With The Flow
Cherokee MS

Casey Carroll
Do You Know Your DO?
Cherokee MS

Senior Division: Ann Moran
What's In Your Water?
Hillcrest HS

YALE SCIENCE & ENGINEERING ASSOCIATION, INC.

Award Certificate

Senior Division: Robert Busiek
Can Ketone
Concentration in Diabetics
Be Tested?
Greenwood Lab School

DR. GARY A. KELL AWARD, sponsored by Ferrell-Duncan Clinics

This award of \$250 is awarded to the Junior High or Middle School Teacher who sponsored the most students winning placement awards. The award will be used for the purchase of research equipment for his/her classroom. The recipient of the Kell Award for 2005 is:

Lynn Vogel
St. Agnes Middle School

THE REGIONAL FAIR DIRECTOR EMERITUS "SYLVIA SPEAR NEW TEACHER AWARD"

\$25 Cash to a First Time Teacher.

Robin Swain
Clever MS

POSITRONIC INDUSTRIES TEACHER AWARD

This cash award of \$75 is awarded to the Teacher, Junior High, Middle School or Senior High, with the most total entries. The recipient of the Positronic Award for 2005 is:

Lynn Vogel
St. Agnes Middle School

OZARKS SCIENCE & ENGINEERING FAIR FOUNDATION JUNIOR DIVISION TEACHER AWARDS

This award of a book of abstracts from the International Science and Engineering Fair is awarded to the teachers of the Junior Division First Place Category winners. The recipients of the Junior Division Teacher Awards for 2005 are:

Jennifer Cvitak, Cherokee MS
Kathryn Keller, St. Joseph MS
Kimberly Potter, Marshfield JH
Lynn Vogel, St. Agnes MS
Darlene Henne, Pleasant View MS
Jackie Hutcherson, Cherokee MS
Heather Cooke, Immaculate Conception

OZARKS SCIENCE & ENGINEERING FAIR FOUNDATION SENIOR DIVISION TEACHER AWARDS

This award of a book of abstracts from the International Science and Engineering Fair is awarded to the teachers of the Senior Division First Place Category winners. The recipients of the Senior Division Teacher Awards for 2005 are:

Hugh Brewer, Greenwood Lab School
Glen Boyer, Hartville HS
Dave Davison, Greenwood Lab School
Richard Snyder, Kickapoo HS
Pam Probert, Mansfield HS

OZARKS SCIENCE & ENGINEERING FAIR FOUNDATION JUNIOR DIVISION GRAND PRIZE TEACHER AWARD

This award of \$25 cash and a plaque is awarded to the teacher(s) of the Junior Division Grand Prize student project. The recipient of the OSEF Foundation Junior Division Grand Prize Teacher Award for 2005 is:

Darlene Henne, Pleasant View MS

OZARKS SCIENCE & ENGINEERING FAIR FOUNDATION SENIOR DIVISION GRAND PRIZE TEACHER AWARD

This award of \$25 cash and a plaque is awarded to the teacher(s) of the Senior Division Grand Prize projects. The recipients of the OSEF Foundation Senior Division Grand Prize Teacher Award for 2005 are:

Hugh Brewer, Greenwood Lab School
Dave Davison, Greenwood Lab School



The Ozarks Science & Engineering Fair Foundation



We hope you have enjoyed this year's Ozarks Science & Engineering Fair, and that your student had a enriching as well as rewarding experience.

The Ozarks Science & Engineering Fair is THE premier middle and high school science competition for southwest Missouri. The Fair is a regional competition which brings together student scientists and engineers with outstanding research projects. It also serves as an excellent opportunity for students to experience working with local scientists and professionals. Participating students are from a 16 county region which includes: Christian, Dade, Douglas, Greene, Howell, Laclede, Oregon, Ozark, Polk, Pulaski, Shannon, Stone, Taney, Texas, Webster and Wright counties. The Fair itself takes place annually during the first week of April at Hammons Student Center on the campus of Southwest Missouri State University. For more information about the Fair itself, visit http://www.k12science.smsu.edu/OSEF/enter_the_fair!.htm.

Funds for the Fair come exclusively from contributions by individuals, organizations, foundations, businesses, and industries in our region. These funds are used for operational costs, prizes, awards, and expenses for participation in the annual International Science and Engineering Fair, where our students interact and compete with student scientists from around the world.

Our supporters come from all areas of the community, and are bound together by their mutual interest in promoting science and math education, research and careers in the young people of southwest Missouri. OSEF invites you to support and encourage young scientists, and has established cumulative and annual giving levels, which will be recognized. The recognition levels achieved by those who support the Fair will be publicized in the annual Entry and Award Books as well as newspaper announcements following the Fair.

We already know you value science and math education for our young people—your generous donations are vital to the continued success of this important outreach in our community. If you would like to contribute to the Fair Foundation, please use the attached envelope—a drop box will be available at the information desk as you leave the Fair, or you can mail your donation at a later date.

Thank You!