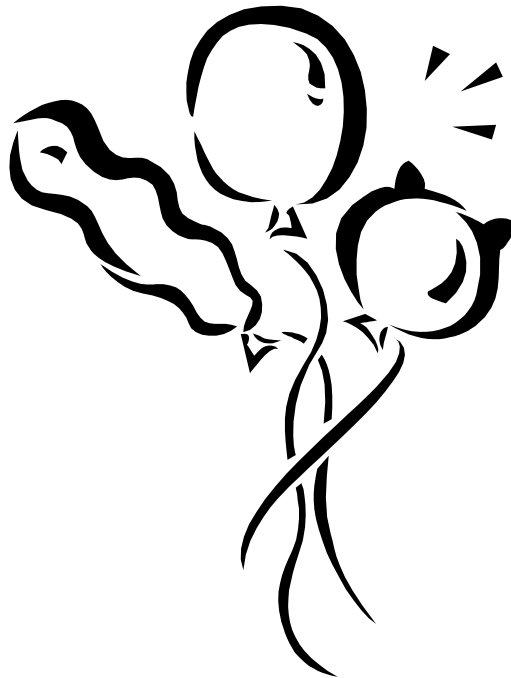


OZARKS SCIENCE & ENGINEERING FAIR

**HAMMONS STUDENT CENTER
SOUTHWEST MISSOURI STATE UNIVERSITY**

APRIL 9, 10, & 11, 2002



2002 WINNERS

Sponsored By:

**Associated Electric Cooperative
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**THE OZARKS SCIENCE &
ENGINEERING FAIR FOUNDATION
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**AS A MAJOR SPONSOR OF THE 42ND
ANNUAL OZARKS SCIENCE &
ENGINEERING FAIR.**

Thank you for your support!



MASTER OF CEREMONIES

Mr. Bill Bergmann
President, board of directors
Ozarks science & engineering fair foundation



advisory committee members

Executive director:	michelle Norgren
Special awards:	Melinda untiedt, chair
	Romona baker
	Jennifer cvitak
Rules & regulations	hugh brewer
Science day	hugh brewer
Mentoring	Kathy shade
Publicity	sandy broerman
Web page development	sue mccrory
Elementary fair	joy Kelley
Volunteers	sara Thompson
	Rochelle mccrory

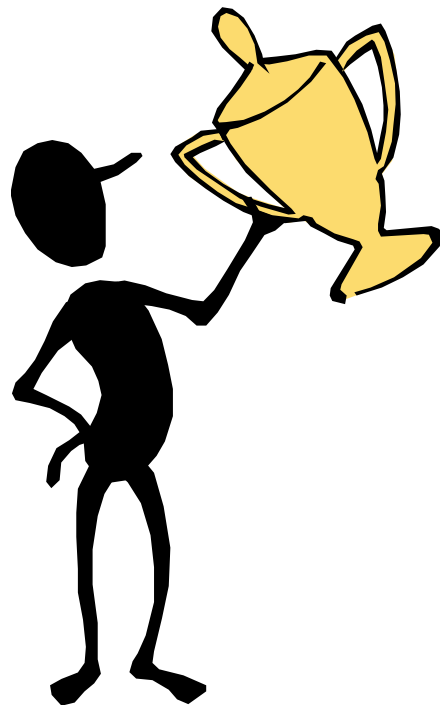


scientific review committee

Dr. Tom Tomasi, chair
Dr. jack steiert, microbiology
Dr. bryan breyfogle, chemistry
Dr. jim davis, human behavior
Dr. Michael pfander, dvm, nonhuman vertebrates



THE OZARKS SCIENCE & ENGINEERING FAIR



JUNIOR DIVISION PLACEMENT
AWARD WINNERS!

Junior division

BEHAVIORAL AND SOCIAL SCIENCES

First Place: Ariana Botsford
The Great Debate: Girls, Boys,
and Vocabulary
St. Agnes Middle School
Lynn Vogel

Second Place: Keaton Todd
Sounding It Out, Part II: How
Our Brain Reads
Immaculate Conception MS
Elaine Marzolla

Jessica Laird
Do Boys Smell Better Than
Girls?
Immaculate Conception MS
Elaine Marzolla

Whitney Meyer
Misha Terrell
Stolen . . . The Signs
Hollister Middle School
Dwayne Felks

Third Place: Laura Rues
Messaging
St. Joseph Middle School
Katherine Keller

Leree Mays
Your Favorite Shoe
Pleasant View Middle School
Darlene Henne

Kim Koch
Did You See That?
St. Agnes Middle School
Lynn Vogel

Honorable Mention: Ann Moran
The Stroop Effect: Memory vs.
Color
Pleasant View Middle School
Darlene Henne

Allison Rasnick
Are You a Sucker for Subliminal
Messages?
Marshfield Middle School
Aaron Tillman

BEHAVIORAL AND SOCIAL SCIENCES (cont.)

Honorable Mention: Kellen McLean Lutz
What is Fuchsia and Why Do I
Care?
Hickory Hills Middle School
Rebecca Jamieson Pugh

Alison Daniels
Color: Does It Matter?
Hollister Middle School
Dwayne Felks

BIOCHEMISTRY

First Place: Shanna Akley
Protein Munchers
Pleasant View Middle School
Darlene Henne

Second Place: Megan Knight
Detergent Emergency
Immaculate Conception MS
Elaine Marzolla

Third Place: Cheri Garrett
Where's the Sugar?
St. Agnes Middle School
Lynn Vogel

Honorable Mention: Andrew Myracle
Burn, Baby, Burn
Immaculate Conception MS
Elaine Marzolla

BOTANY

First Place: Patrick Merrigan
Allelopathy: When Grass is
Greener Under the Other Trees
Immaculate Conception MS
Elaine Marzolla

Second Place: Paige Goodnight
What Are the Effects of Bottled
Water and Creek Water on Plant
Growth?
Pipkin Middle School
Dr. Protima Roy

Blake Bel
Luke Barber
The Growth Rate of Trees at
Two Sites
Marshfield Middle School
Aaron Tillman

Junior division

BOTANY (cont.)

Third Place: Sarah Golubski
Hydroponics
Billings Middle School
Karla Shively

Nathan Pugh
Soil Engineering – A Continuing
Study of Soil Management: The
pH factor – How Much is Too
Much of a Good Thing?
Hollister Middle School
Jeff Ellison

Honorable Mention: Rachel Gardner
Karissa Carr
Does the Kind of Fertilizer Affect
the Growing Rate of Grass?
Billings Middle School
Karla Shively

Katrina Brown
The Respiration of Germinatic
Seeds
St. Agnes Middle School
Lynn Vogel

CHEMISTRY

First Place: Andrew San Paolo
Fire in the Hole
St. Agnes Middle School
Lynn Vogel

Second Place: Mary Mantei
Tainted Tableware: Lead and
Cadmium
St. Agnes Middle School
Lynn Vogel

Justin Garcia
What Can You "C" in a Color?
Immaculate Conception MS
Elaine Marzolla

Thomas Reigel
Is Clorox Bleach Really the
Best?
Pipkin Middle School
Dr. Protima Roy

Third Place: John Bartow
An Acid Effect on Gold
Marshfield Middle School
Aaron Tillman

CHEMISTRY (cont.)

Third Place: Stuart Lloyd-Smith
Turn Up the Heat
Immaculate Conception MS
Elaine Marzolla

Honorable Mention: Chad Carleton
Rid of the Red
New Covenant Academy
Tammy Cook

Sarah Dobard
Have You Had Your Vitamin C
Today?
Immaculate Conception MS
Elaine Marzolla

Eric Camejo
Liquitricity
St. Agnes Middle School
Lynn Vogel

EARTH AND SPACE SCIENCES

First Place: Aften Nelsen
Megan Willis
Crystals! Crystals! Crystals!
Marshfield Middle School
Aaron Tillman

Second Place: Lauren Cervellere
Can't See For The Light
Immaculate Conception MS
Elaine Marzolla

Third Place: Collin Herman
Weather Predictions
St. Agnes Middle School
Lynn Vogel

Honorable Mention: Kyle Davis
A Stream Runs Through It
St. Agnes Middle School
Lynn Vogel

Rusty Gallagher
Melt it Off and Keep it Off
Immaculate Conception MS
Elaine Marzolla

Junior division

ENGINEERING

First Place: Byron Wilcox
Robotic Climber
Springfield Lutheran School
Mary Brockman

Second Place: David Camejo
Dam It Up
St. Agnes Middle School
Lynn Vogel

Garret Lowder
Jacob Skinner
Amazing Arms
Marshfield Middle School
Aaron Tillman

Third Place: Sean Levy
Are the "Ultra" Batteries Worth
the Price?
Springfield Lutheran School
Mary Brockman

Derek Wilkerson
Who's Got the Hots?
Skyline R-2 Middle School
Lannie Hinote

Honorable Mention: Matthew Boyd
Floating Around
St. Agnes Middle School
Lynn Vogel

Alex Reith
What is the Relevance of
Insulation and Which Form is
the Best?
Immaculate Conception MS
Elaine Marzolla

ENVIRONMENTAL SCIENCES

First Place: Leo Elworth
Gas Guzzlers vs. Gas Misers
St. Agnes Middle School
Lynn Vogel

Second Place: Mike Renkoski
Priceless Poop
St. Agnes Middle School
Lynn Vogel

ENVIRONMENTAL SCIENCES (cont.)

Second Place: Burton Mathews
Daniel Chambers
Can We Prevent the Weathering
of Our Sidewalks?
Pipkin Middle School
Dr. Protima Roy

Third Place: William Conway
Algae Here, Algae There
St. Agnes Middle School
Lynn Vogel

Sarah Francka
Dissolved Oxygen Levels in
Finley Creek, Missouri
Immaculate Conception MS
Elaine Marzolla

Honorable Mention: Mykelnn Youngblood
Just Breathe
Hollister Middle School
Dwayne Felks

Kindra Mooneham
Brandie Courtois
Recycling Kitchen Waste
Billings Middle School
Karla Shively

MATHEMATICS

First Place: Sophie Parker
The Curve of the Future
Spokane Middle School
Margaret LaCavera

Second Place: Craig Eck
Loops, Arches, Whorls
St. Agnes Middle School
Lynn Vogel

Third Place: Brandon Bowenscholte
Probability
Immaculate Conception MS
Elaine Marzolla

Honorable Mention: Zach Valdivia
Mental Magic
St. Agnes Middle School
Lynn Vogel

Junior division

MATHEMATICS (cont.)

Honorable Mention: Alicia Tanjulk
Traffic Accident Probability in
Springfield, Missouri
Immaculate Conception MS
Elaine Marzolla

MEDICINE AND HEALTH

First Place: Kendra Weatherford
The Effect of Caffeine on
Drosophila melanogaster
Pleasant View Middle School
Darlene Henne

Second Place: Rachel Love
Where is Sylvester?
Pleasant View Middle School
Darlene Henne

Divya Viswanathan
Rainbow Babies
St. Agnes Middle School
Lynn Vogel

Third Place: Rachelle Leddy
Effects of Grade Level on Lung
Capacity
Skyline R-2 Middle School
Lannie Hinote

Sam Jersak
Which Antacid is Best for the
Stomach?
Immaculate Conception MS
Elaine Marzolla

Honorable Mention: Ashley Reecht
Which Cavity Protection
Toothpaste Protects Your Teeth
Best?
Immaculate Conception MS
Elaine Marzolla

Honorable Mention: Claire Dohmen
Whippin' Flippin' Flexin' Ankles
Go Faster
St. Agnes Middle School
Lynn Vogel

MICROBIOLOGY

First Place: Meghan Pfander
Water: Who Needs It?
Clever Middle School
Melissa Warren

MICROBIOLOGY (cont.)

Second Place: Emily Wardein
Black Mold, Red Mold, Blue
Mold, Bread Mold
St. Agnes Middle School
Lynn Vogel

Third Place: Laura Glenn
Jessica Jenkins
The School's Creepy Creatures
Marshfield Middle School
Aaron Tillman

Honorable Mention: Mitchell Bell
The Bug Stops Here
Immaculate Conception MS
Elaine Marzolla

PHYSICS

First Place: Ryan Garfarian
Hot Shots
St. Agnes Middle School
Lynn Vogel

Second Place: Connor Eck
Got Bounce?
St. Agnes Middle School
Lynn Vogel

Raeann Edson
Thermal Conduction of Metals
Hollister Middle School
Jeff Ellison

Third Place: Kayla Messick
Where is Your Sweet Spot?
Marshfield Middle School
Aaron Tillman

Kyle Reinert
Zachary Ware
An Enlightening Idea: Can You
Read This Eye-Chart?
Billings Middle School
Karla Shively

Jacquelyn Meltabarger
Sara Sanderson
Now That's An Insulator
Billings Middle School
Karla Shively

Junior division

PHYSICS (cont.)

Honorable Mention: Chris Comey
The Gravity Grand Prix
St. Agnes Middle School
Lynn Vogel

Lyndsay Schroeder
Zip It
St. Agnes Middle School
Lynn Vogel

Matthew Opitz
Hydroelectric Generator
Study Middle School
Trey Garson

ZOOLOGY

First Place: Catherine DiSarno
Breathe In, Breathe Out
St. Agnes Middle School
Lynn Vogel

Second Place: Wenonah Toney
Pulse Rates
Marshfield Middle School
Aaron Tillman

Kristine Malter
Amazing Mice
St. Agnes Middle School
Lynn Vogel

Third Place: Ashton Peck
Saddle Up . . . Or Not?
Pleasant View Middle School
Darlene Henne

Rachel Ball
Can an Old Dog Learn New
Tricks?
St. Agnes Middle School
Lynn Vogel

Honorable Mention: Kurtis Grothoff
Fat Cat Special
St. Agnes Middle School
Lynn Vogel

Matt Wright
Food For Thought
St. Agnes Middle School
Lynn Vogel

THE OZARKS SCIENCE & ENGINEERING FAIR



SENIOR DIVISION PLACEMENT AWARD
WINNERS!

SENIOR DIVISION

BEHAVIORAL AND SOCIAL SCIENCES

First Place: Ryan Cady
The Effect of Sleep Deprivation
on Cognitive Efficiency
Greenwood Laboratory School
Hugh Brewer

Second Place: Leah Sartin
Kimberly Baker
Eye Spy With My Little Eye
Billings High School
Karla Shively

Third Place: Tyler Montileone
Laser, Aim, Putt
Greenwood Laboratory School
Hugh Brewer

BOTANY

First Place: Claire Clothiaux
A Comparative Study of the
Effects of Two Commercially
Available Fertilizers on the
Growth of Plants Using *fabaceae*
Phaseolus Lunatus
Greenwood Laboratory School
Jennifer Cvitak

Second Place: Avery Mack
Marie Whitson
How Fertilizer Affects a Plant's
Root Structure
Parkview High School
Kathleen Hodge

Third Place: Kelly Goodman
The Individual Importance of
Nitrates and Phosphates to
Plants
Strafford High School
Katharine Myers

Honorable Mention: Bryson Roller
Electromagnetic Fields and Their
Effect on Plants
Bolivar High School
Teresa Holt

CHEMISTRY

First Place: Matt Carlile
The Effect of Auditory Sonic
Waves on Reaction Rates
Greenwood Laboratory School
Hugh Brewer

CHEMISTRY (cont.)

Second Place: Ryan Gerecht
Sarah Ensor
Effectiveness of Food
Preservatives in Unusually Harsh
Conditions
Central High School
Karen Reed

Third Place: Brett C. Young
Longevity of Computer Printer
Ink Under General Electric
Chroma 500 Daytime Balanced
Lighting
Strafford High School
Katharine Meyers

Honorable Mention: Carina Wolf
Which Acid is Most Damaging?
Central High School
Dr. Protima Roy

ENGINEERING (this category sponsored by Associated Electric Cooperative, Inc.)

First Place: Rebecca Hannah
Improving the Cane as a
Navigational Device for the Blind
Glendale High School
Fred Fotsch

ENVIRONMENTAL SCIENCES (this category sponsored by Kraft Foods, Inc.)

First Place: Ginny Barnhart
The Effect of Ammonia on
Freshwater Mussels
Greenwood Laboratory School
Hugh Brewer

Second Place: Brad Young
Comparison of Stream Habitat
for the Niangua Darter
Pleasant Hope High School
Gail Emrie

Third Place: Julie Neal
Protozoa: Do They Indicate
Water Quality?
Greenwood Laboratory School
Hugh Brewer

SENIOR DIVISION

ENVIRONMENTAL SCIENCES (this category sponsored by Kraft Foods, Inc.) (cont.)

Honorable Mention: Daniel Dillard
Affect of Land Use on Nutrient Levels in the North Dry Sac
Pleasant Hope High School
Gail Emrie

MATHEMATICS

Honorable Mention: Steven Frantz
Pythagorean Theorem Shortcut
Expansion
Buffalo High School
Dan McCorkendale

MEDICINE AND HEALTH

First Place: Rick Seagrave
The Trainer-less Ultrasound Treatment
Greenwood Laboratory School
Hugh Brewer

Second Place: Karen Ward
Effects of High Heeled Shoes on Balance
Greenwood Laboratory School
Hugh Brewer

Third Place: Megan Pruitt
No More Toothbrushes
Greenwood Laboratory School
Hugh Brewer

Honorable Mention: Andrea Perkins
Do You Snore (Obstructive Sleep Apnea)?
Buffalo High School
Dan McCorkendale

MICROBIOLOGY

First Place: Jessica Hacker
Can Candida Albicans be Controlled Without Using Antibiotics?
Greenwood Laboratory School
Hugh Brewer

Second Place: Aaron McCarty
Micah Sukany
Household Defense Against Bio-Terrorism
Pleasant Hope Middle School
James Flora

MICROBIOLOGY (cont.)

Third Place: Brad Stockdale
Antibiotic Resistant Bacteria . . .
They Are All Around Us!
Central High School
Dr. Protima Roy

Honorable Mention: Ashley Wells
Discovering Drosophila
Marshfield High School
Aaron Tillman

PHYSICS

First Place: Adam Schoeller
Hot Or Not?
Greenwood Laboratory School
Hugh Brewer

Second Place: Colin Towery
Efficiency of Three Methods of Heating Water with Solar Power
Central High School
Nova Mrad

Third Place: Samantha DeArmon
The Effects of Pressure Change on Basketballs
Central High School
Nova Mrad

Honorable Mention: Cody Pace
The Effects of Pressure on Wire Resistance
Central High School
Nova Mrad

Michael Gardner
Permanent Magnetic Levitation: A Search for Cheaper Transportation
Greenwood Laboratory School
Hugh Brewer

ZOOLOGY

First Place: Amanda Burling
Ronald McCants
Of Mice and Ginkgo: An Experiment Testing the Effect of Ginkgo Biloba on Memory in Mice
Central High School
Karen Reed

SENIOR DIVISION

ZOOLOGY (cont.)

Second Place: Adam Clarke
Matt Trtan
Andrew Netzer
The Effects of Caffeine on Mice
Parkview High School
Kathleen Hodge

Third Place: Casey Richardson
Math Attraction
Buffalo High School
Dan McCorkendale

Honorable Mention: Shawna Hanson
Is Your Cat South Pawed?
Hillcrest High School
Barbara Hannah

THE OZARKS SCIENCE & ENGINEERING FAIR



SPECIAL AWARDS!

SPECIAL AWARDS

AARP ANDRUS FOUNDATION AWARD

\$100.00 Cash Award and Certificate

Junior Division: Michael Duda
Man's Best Friend
Immaculate Conception MS
Elaine Marzolla

AEROSPACE SUMMIT – CONSTELLATION CLUB – TROPHIES ETC.

\$50.00 Check and a Large Engraved Plaque

Senior Division: Brian VanOsdol
The Design of a Localized
Positioning System
Glendale High School
Fred Fotsch

Junior Division: Byron Wilcox
Robotic Climber
Springfield Lutheran
Mary Brockman

Casye Davidson
Solar Activity
Study Middle School
Trey Garson

AMERICAN FOUNDATION OF VISION AWARENESS – MISSOURI

\$100.00 Cash Award and a Plaque

Junior Division: Patrick Crisp
Through The Fog
Hollister Middle School
Jeff Ellison

AMERICAN SOCIETY OF MAMMALOGISTS

Certificate of Award

Senior Division: Shawna Hanson
Is Your Cat South Pawed?
Hillcrest High School
Barbara Hannah

Junior Division: Wade Woods
You Never Know Who's
Watching
Skyline Middle School
Lannie Hinote

ARCHER ENGINEERS AWARD

\$35.00 Cash Award

Senior Division: Jessica Hacker
Can Candida Albicans Be
Controlled Without Antibiotics?
Greenwood Laboratory School
Hugh Brewer

ASSOCIATED ELECTRIC COOPERATIVE, INC. AWARD

\$100 Cash Award and Certificate

Senior Division: Brian VanOsdol
The Design of a Localized
Positioning System
Glendale High School
Fred Fotsch

Rebecca Hannah
Improving the Cane as a
Navigational Device for the Blind
Glendale High School
Fred Fotsch

ASSOCIATION OF WOMEN GEOSCIENTISTS

Certificate of Award

Senior Division: Ginny Barnhart
Effect of Ammonia on
Freshwater Mussels
Greenwood Laboratory School
Hugh Brewer

CITY UTILITIES OF SPRINGFIELD

\$50.00 Cash Award

Senior Division: Julia Neal
Protozoa: Water Quality
Indicators
Greenwood Laboratory School
Hugh Brewer

Junior Division: Eric Camejo
Liquitricity
St. Agnes Middle School
Lynn Vogel

SPECIAL AWARDS

CITY OF SPRINGFIELD SOLID WASTE MANAGEMENT DIVISION

Recycled Plastic Soda Bottle T-shirt

Junior Division: Burton Matthews
 Daniel Chambers
 How Can We Prevent the
 Weathering of Our Sidewalks
 and Driveways?
 Pipkin Middle School
 Dr. Protima Roy

CONSERVATION INTERNATIONAL AWARD

*Certificate of Award, Letter of Congratulations, and a
Biodiversity Hotspots Map*

Senior Division: Brad Young
 A Comparative Analysis of
 Stream Habitat for the Niangua
 Darter in the North Dry Sac,
 Maries, and Little Niangua
 Rivers
 Pleasant Hope High School
 Gail Emrie

THE MARK IV AUTOMOTIVE/DAYCO IMAGINEERING AWARD (sponsored by the DAYCO PRODUCTS, INC., OF SPRINGFIELD, TECHNICAL CENTER)

\$100 Check and plaque

Senior Division: Rebecca Hannah
 Improving the Cane as a
 Navigational Device for the Blind
 Glendale High School
 Fred Fotsch

THE DISCOVERY YOUNG SCIENTIST AWARD

Certificate and Lapel Pin

Junior Division: Ariana Botsford
 The Great Debate: Girls, Boys,
 and Vocabulary
 St. Agnes Middle School
 Lynn Vogel

 Shanna Akley
 Protein Munchers
 Pleasant View Middle School
 Darlene Henne

THE DISCOVERY YOUNG SCIENTIST AWARD (cont.)

Certificate and Lapel Pin

Junior Division: Patrick Merrigan
 Allelopathy: Where Grass is
 Greener Under the Other Trees
 Immaculate Conception MS
 Elaine Marzolla

Andrew San Paolo
Fire in the Hole
St. Agnes Middle School
Lynn Vogel

Aften Nelsen
Megan Willis
Crystals! Crystals! Crystals!
Marshfield Middle School
Aaron Tillman

Byron Wilcox
Robotic Climber
Springfield Lutheran School
Mary Brockman

Leo Elworth
Gas Guzzlers vs. Gas Misers
St. Agnes Middle School
Lynn Vogel

Sophie Parker
The Curve of the Future
Spokane Middle School
Margaret LaCavera

Kendra Weatherford
The Effect of Caffeine on
Drosophila Melanogaster
Pleasant View Middle School
Darlene Henne

Rachel Love
Where Is Sylvester?
Pleasant View Middle School
Darlene Henne

Divya Viswanathan
Rainbow Babies
St. Agnes Middle School
Lynn Vogel

Meghan Pfander
Water: Who Needs It?
Clever Middle School
Melissa Warren

SPECIAL AWARDS

THE DISCOVERY YOUNG SCIENTIST AWARD (cont.)

Certificate and Lapel Pin

Junior Division: Emily Wardein
Black Mold, Red Mold, Blue
Mold, Bread Mold
St. Agnes Middle School
Lynn Vogel

Ryan Gafarian
Hot Shots
St. Agnes Middle School
Lynn Vogel

Conner Eck
Got Bounce?
St. Agnes Middle School
Lynn Vogel

Catherine DiSarno
Breathe In, Breathe Out
St. Agnes Middle School
Lynn Vogel

Wenonah Toney
Pulse Rates
Marshfield Middle School
Aaron Tillman

Keaton Todd
Sounding It Out! Part II: How
Our Brain Reads
Immaculate Conception MS
Elaine Marzolla

Jessica Laird
Do Boys Smell Better Than
Girls?
Immaculate Conception MS
Elaine Marzolla

Whitney Meyer
Misha Terrell
Stolen . . . The Signs
Hollister Middle School
Dwayne Felks

Megan Knight
Detergent Emergency
Immaculate Conception
Elaine Marzolla

THE DISCOVERY YOUNG SCIENTIST AWARD (cont.)

Certificate and Lapel Pin

Junior Division: Paige Goodnight
What Are the Effects of Bottled
Water and Creek Water on Plant
Growth?
Pipkin Middle School
Dr. Protima Roy

Blake Bel
Luke Barber
The Growth Rate of Trees at
Two Sites
Marshfield Middle School
Aaron Tillman

Mary Mantei
Tainted Tableware: Lead and
Cadmium in Tableware
St. Agnes Middle School
Lynn Vogel

Justin Garcia
What Can You See in a Color?
Immaculate Conception MS
Elaine Marzolla

Thomas Reigel
Is Clorox Bleach Really the
Best?
Pipkin Middle School
Dr. Protima Roy

Lauren Cevellere
Can't See for the Light
Immaculate Conception MS
Elaine Marzolla

David Camejo
Dam It Up
St. Agnes Middle School
Lynn Vogel

Garret Lowder
Jacob Skinner
Amazing Arms
Marshfield Middle School
Aaron Tillman

Mike Renkoski
Priceless Poop
St. Agnes Middle School
Lynn Vogel

SPECIAL AWARDS

THE DISCOVERY YOUNG SCIENTIST AWARD (cont.)

Certificate and Lapel Pin

Junior Division: Burton Mathews
 Daniel Chambers
 Can We Prevent the Weathering
 of Our Sidewalks?
 Pipkin Middle School
 Dr. Protima Roy

 Craig Eck
 Loops, Arches, Whorls
 St. Agnes Middle School
 Lynn Vogel

DRURY COLLEGE

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

Senior Division: Ryan Cady
 The Effect of Sleep Deprivation
 on Cognitive Efficiency
 Greenwood Laboratory School
 Hugh Brewer

 Claire Clothiaux
 A Comparative Study of the
 Effects of Two Commercially
 Available Fertilizers on the
 Growth of Plants Using *fabaceae*
 Phaseolus lunatus
 Greenwood Laboratory School
 Jennifer Cvitak

 Matt Carlile
 The Effect of Auditory Sonic
 Waves on Reaction Rates
 Greenwood Laboratory School
 Hugh Brewer

 Rebecca Hannah
 Improving the Cane as a
 Navigational Device for the Blind
 Glendale High School
 Fred Fotsch

 Ginny Barnhart
 The Effect of Ammonia on
 Freshwater Mussels
 Greenwood Laboratory School
 Hugh Brewer

DRURY COLLEGE (cont.)

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

Senior Division: Rick Seagrave
 The Trainer-less Ultrasound
 Treatment
 Greenwood Laboratory School
 Hugh Brewer

 Jessica Hacker
 Can Candida Albicans Be
 Controlled Without Using
 Antibiotics?
 Greenwood Laboratory School
 Hugh Brewer

 Adam Schoeller
 Hot or Not?
 Greenwood Laboratory School
 Hugh Brewer

 Amanda Burling
 Ronald McCants
 Of Mice and Gingko: An
 Experiment Testing the Effect of
 Gingko Biloba on Memory in
 Mice
 Central High School
 Karen Reed

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

Senior Division: Brian VanOsdol
 The Design of a Localized
 Positioning System
 Glendale High School
 Fred Fotsch

 Siir Kilkis
 Mathematical Correlation
 Greenwood Laboratory School
 Hugh Brewer

EASTMAN KODAK PHOTOGRAPHIC AWARD

Certificate of Award and Kodak® Camera Kit

Junior Division: Chris Wright
 Hair of the Dog
 St. Agnes Middle School
 Lynn Vogel

SPECIAL AWARDS

EVANGEL UNIVERSITY

\$1,500.00 Scholarship to each Senior Division First Place Winner

Senior Division: Ryan Cady
The Effect of Sleep Deprivation
on Cognitive Efficiency
Greenwood Laboratory School
Hugh Brewer

Claire Clothiaux
A Comparative Study of the
Effects of Two Commercially
Available Fertilizers on the
Growth of Plants Using *fabaceae*
phaseolus lunatus
Greenwood Laboratory School
Jennifer Cvitak

Matt Carlile
The Effect of Auditory Sonic
Waves on Reaction Rates
Greenwood Laboratory School
Hugh Brewer

Rebecca Hannah
Improving the Cane as a
Navigational Device for the Blind
Glendale High School
Fred Fotsch

Ginny Barnhart
The Effect of Ammonia on
Freshwater Mussels
Greenwood Laboratory School
Hugh Brewer

Rick Seagrave
The Trainer-less Ultrasound
Treatment
Greenwood Laboratory School
Hugh Brewer

Jessica Hacker
Can Candida Albicans Be
Controlled Without Using
Antibiotics?
Greenwood Laboratory School
Hugh Brewer

Adam Schoeller
Hot or Not?
Greenwood Laboratory School
Hugh Brewer

EVANGEL UNIVERSITY (cont.)

\$1,500.00 Scholarship to each Senior Division First Place Winner

Senior Division: Amanda Burling
Ronald McCants
Of Mice and Gingko: An
Experiment Testing the Effect of
Gingko Biloba on Memory in
Mice
Central High School
Karen Reed

\$2,500.00 Scholarship to each Senior Division Grand Prize Winner

Senior Division: Brian VanOsdol
The Design of a Localized
Positioning System
Glendale High School
Fred Fotsch

Siir Kilkis
Mathematical Correlation
Greenwood Laboratory School
Hugh Brewer

FANTASTIC CAVERNS

"Excellence In Science" Award

Senior Division: Ginny Barnhart
The Effect of Ammonia on
Freshwater Mussels
Greenwood Laboratory School
Hugh Brewer

GAMMA IOTA SIGMA – BAKER CHAIR OF INSURANCE AWARD

\$25.00 Cash Award and Certificate

Senior Division: Karen Ward
The Effects of High Heeled
Shoes on Balance
Greenwood Laboratory School
Hugh Brewer

GREATER OZARKS AUDUBON SOCIETY

Environmental Awareness Award

Junior Division: Leo Elworth
Gas Guzzlers vs. Gas Misers
St. Agnes Middle School
Lynn Vogel

SPECIAL AWARDS

THE GREENE COUNTY GROUNDWATER GUARDIAN AWARD (sponsored by the GREENE COUNTY PLANNING AND ZONING DEPARTMENT)

*Travel & Expenses Paid to Groundwater University
during the summer of 2002*

Junior Division: Sarah Francka
Dissolved Oxygen Levels in
Finley Creek, Missouri, in
Relation to Populated Areas
Immaculate Conception MS
Elaine Marzolla

HERBERT HOOVER PRESIDENTIAL LIBRARY ASSOCIATION "YOUNG ENGINEER AWARD"

Certificate of Award and Medallion

Senior Division: Rebecca Hannah
Improving the Cane as a
Navigational Device for the Blind
Glendale High School
Fred Fotsch

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

\$100.00 Health Science Award

Senior Division: Rick Seagrave
The Trainer-less Ultrasound
Treatment
Greenwood Laboratory School
Hugh Brewer

INTEL EXCELLENCE IN COMPUTER SCIENCE AWARD

\$200.00 Cash Award and Certificate

Senior Division: Brian VanOsdol
The Design of a Localized
Positioning System
Glendale High School
Fred Fotsch

INTEL EXCELLENCE IN ENVIRONMENTAL HEALTH AND SAFETY AWARD

*\$200.00 Cash Award, Certificate of Merit, and an Intel
Memento*

Senior Division: Ginny Barnhart
The Effect of Ammonia on
Freshwater Mussels
Greenwood Laboratory School
Hugh Brewer

IRENE BRUNNER MEMORIAL AWARD

\$25.00 Cash Award & Certificate

Junior Division: Alexandria Mixon
The Big Mouth Myth
Ozark Upper Elementary
Paula Young

Casey McCann
One Way or the Other
St. Agnes Middle School
Lynn Vogel

\$25.00 Cash Award & Certificate

Junior Division: Kristine Malter
Amazing Mice
St. Agnes Middle School
Lynn Vogel

JUNE FENDER MEMORIAL BIOLOGY AWARD

\$100.00 Cash Award and Certificate of Achievement

Senior Division: Ginny Barnhart
The Effects of Ammonia on
Freshwater Mussels
Greenwood Laboratory School
Hugh Brewer

THE 2002 KRAFT AWARD (sponsored by Kraft Foods, Inc.)

\$50.00 Cash Award

Senior Division: Susan Gladden
How Filthy is Your Lucre? A
Study of Bacterial Habitation
Halfway High School
Rodney Delmont

SPECIAL AWARDS

THE 2002 KRAFT AWARD (sponsored by Kraft Foods, Inc.) (cont.)

\$50.00 Cash Award

Senior Division: Brad Stockdale
Resistant Bacteria
Central High School
Dr. Protima Roy

Ryan Gerecht
Sarah Ensor
Effectiveness of Food
Preservatives in Unusually Harsh
Conditions
Central High School
Karen Reed

Bryson Roller
How Magnetic Fields Affect
Plant Growth
Bolivar High School
Teresa Holt

MISSOURI SOCIETY OF PROFESSIONAL ENGINEERS

\$40.00 Cash Award

Junior Division: David Camejo
Dam It Up
St. Agnes Middle School
Lynn Vogel

\$75.00 Cash Award

Senior Division: Rebecca Hannah
Improving the Cane as a
Navigational Device for the Blind
Glendale High School
Fred Fotsch

OZARK AREA PHARMACY ASSOCIATION

\$75.00 Cash Award (if awarded to partners, prize amount will be split between them)

Junior Division: Sarah Dobard
Have You Had Your Vitamin C
Today?
Immaculate Conception MS
Elaine Marzolla

OZARK AREA PHARMACY ASSOCIATION (cont.)

\$75.00 Cash Award (if awarded to partners, prize amount will be split between them)

Junior Division: Kendra Weatherford
The Effect of Caffeine on
Drosophila Melanogaster
Pleasant View Middle School
Darlene Henne

Senior Division: Jonathan Geuin
Kelly Jacobs
Nutritional Effects of Food
Preservation
Central High School
Karen Reed/Laura Schmutz

Amanda Burling
Ronald McCants
Of Mice and Gingko: An
Experiment Testing the Effect of
Gingko Biloba on Memory in
Mice
Central High School
Karen Reed

OZARK AREA PSYCHOLOGICAL ASSOCIATION

A First Place Plaque

Senior Division: Megan Keith
Advertising Recall: Effect of Ad
Color, Gender and Age
Greenwood Laboratory School
Jennifer Cvitak

A Second Place Plaque

Senior Division: Ryan Cady
Effects of Sleep Deprivation on
Cognitive Efficiency
Greenwood Laboratory School
Hugh Brewer

A Third Place Plaque

Senior Division: Tyler Montileone
Laser, Aim, Putt
Greenwood Laboratory School
Hugh Brewer

SPECIAL AWARDS

OZARK AREA PSYCHOLOGICAL ASSOCIATION (cont.)

Honorable Mention Plaques

Senior Division: Christopher Porter
Comfort Zones
Parkview High School
Kathleen Hodge

OZARK SECTION OF THE AMERICAN CHEMICAL SOCIETY

A Gift Certificate to Barnes and Noble to students and teachers

Senior Division: Matt Carlile
The Effects of Audible Sonic
Waves on Reaction Rates
Greenwood Laboratory School
Hugh Brewer

Junior Division: Mary Mantei
Tainted Tableware: Lead and
Cadmium Concentrations in
Tableware
St. Agnes Middle School
Lynn Vogel

OZARKS TECHNICAL COLLEGE SCIENCE RESEARCH AWARD

Ozarks Science & Engineering Fair/Ozarks Technical College T-shirts

Senior Division: Tyler Hough
Billings High School

Terra Gardner
Pleasant Hope High School

David Putman
Pleasant Hope High School

Ema Abrudan
Pleasant Hope High School

Tricia McNeive
Pleasant Hope High School

Chan Ngo
Central High School

Lauren Meldi
Greenwood Laboratory School

OZARKS TECHNICAL COLLEGE SCIENCE RESEARCH AWARD (cont.)

Ozarks Science & Engineering Fair/Ozarks Technical College T-shirts

Senior Division: Caleb Masterson
Greenwood Laboratory School

William Joshua Norton
Pleasant Hope High School

Amanda Maggard
Billings High School

Jeremy Lair
Billings High School

Brandan Lewis
Buffalo High School

Justin Everitt
Buffalo High School

Jessica Francka
Halfway High School

Tony Jackson
Halfway High School

Sarah Hall
Central High School

Meggan Kolar
Billings High School

Alesha Young
Billings High School

Jessica Myers
Buffalo High School

Amanda Sparkman
Parkview High School

Lois Deal
Parkview High School

Kansas Marsh
Billings High School

Kacie McClellan
Billings High School

SPECIAL AWARDS

OZARKS TECHNICAL COLLEGE SCIENCE RESEARCH AWARD (cont.)

Ozarks Science & Engineering Fair/Ozarks Technical College T-shirts

Senior Division: Marie Pesek
Central High School

Jordan Hickey
Central High School

Ryan Bayer
Bolivar High School

Alex Bethuren
Greenwood Laboratory School

Tyler Seiner
Bolivar High School

Jeanie Wilson
Strafford High School

Erin Lawson
Strafford High School

POSITRONIC INDUSTRIES RESEARCH AWARD

Certificates of Award and Desk Clocks to Students

Junior Division: Desiree Muir
Clever Middle School

Krystal Lais
Immaculate Conception MS

Jenna Engler
Immaculate Conception MS

Heather Thomas
Marshfield Middle School

Amanda Lowe
Marshfield Middle School

Briana Willoughby
Clever Middle School

Jessica Peebles
Clever Middle School

Sarah Maples
Billings Middle School

Ty Tyler
Billings Middle School

POSITRONIC INDUSTRIES RESEARCH AWARD (cont.)

Certificates of Award and Desk Clocks to Students

Junior Division: Kelsey Barlett
Hollister Middle School

Heather Scheck
Hollister Middle School

Mary Graham
Immaculate Conception MS

Marty Duda
Immaculate Conception MS

Ben Hamilton
St. Joseph Middle School

Nic Dykman
St. Joseph Middle School

Jared Weaver
St. Joseph Middle School

Ryan Haik
St. Agnes Middle School

Cody Hagewood
Billings Middle School

Andy Staiger
Billings Middle School

Joshua Hinote
Skyline R-2 Middle School

Nathan Pugh
Hollister Middle School

Whiteney Aiken
Pipkin Middle School

Caitlin Williams
Pipkin Middle School

Kristiana Blasi
Immaculate Conception MS

Kylie Wright
Billings Middle School

Kaleigh Jenish
Billings Middle School

SPECIAL AWARDS

POSITRONIC INDUSTRIES RESEARCH AWARD (cont.)

Certificates of Award and Desk Clocks to Students

Junior Division:

Brady Yate
Pleasant View Middle School

Kyle Ellman
Immaculate Conception MS

Lindsey Zumwalt
St. Agnes Middle School

Steffani Burks
Marshfield Middle School

Kassie Hyde
Marshfield Middle School

Elle Chancellor
Marshfield Middle School

James Reese
Marshfield Middle School

Kalyn Baker
Marshfield Middle School

Alex Bartow
Marshfield Middle School

Nathan Van Diggelen
Marshfield Middle School

Kyle Caldwell
Marshfield Middle School

Jess Renner
Marshfield Middle School

Chelsea Jones
Hollister Middle School

Stephen Dalton
Hollister Middle School

Cecilia Scott
Immaculate Conception MS

Anna Kicker
Marshfield Middle School

Samantha Bigley
Marshfield Middle School

POSITRONIC INDUSTRIES RESEARCH AWARD (cont.)

Certificates of Award and Desk Clocks to Students

Junior Division:

Shane Salyers
Billings Middle School

Jennifer Bradley
Marshfield Middle School

Mandy Stockton
Marshfield Middle School

Kimberly Schaller
Springfield Lutheran School

Lucas Poole
St. Agnes Middle School

Erika Thompson
St. Agnes Middle School

Casey May
Marshfield Middle School

Drew Summers
Marshfield Middle School

Damien Sisk
St. Agnes Middle School

Jerry Gray
Billings Middle School

Paxton Long
Billings Middle School

Kari Labenz
Immaculate Conception MS

Andrew Linville
Marshfield Middle School

Kyle Stewart
Marshfield Middle School

Joe Kelly
St. Joseph Middle School

Paul Johnson
St. Joseph Middle School

Lori Allison
Marshfield Middle School

SPECIAL AWARDS

POSITRONIC INDUSTRIES RESEARCH AWARD (cont.)

Certificates of Award and Desk Clocks to Students

Junior Division: Goldie Weaver
Marshfield Middle School

Laura Carman
Immaculate Conception MS

Brittany Honson
Immaculate Conception MS

Tyler Kutz
St. Agnes Middle School

Andrew Myers
Springfield Lutheran School

Certificates of Award and Desk Clocks to Teachers

Junior Division: Melissa Warren
Clever Middle School

Elaine Marzolla
Immaculate Conception MS

Aaron Tillman
Marshfield Middle School

Karla Shively
Billings Middle School

Jeff Ellison
Hollister Middle School

Kathryn Keller
St. Joseph Middle School

Lynn Vogel
St. Agnes Middle School

Lannie Hinote
Skyline R-2 Middle School

Dr. Protima Roy
Pipkin Middle School

Darlene Henne
Pleasant View Middle School

Kimberly Potter
Marshfield Middle School

Mary Brockman
Springfield Lutheran School

R. DUANE GRAHAM, DDS, MEMORIAL AWARD

\$50.00 Cash Award and Certificate

Senior Division: Megan Pruitt
No More Toothbrushes
Greenwood Laboratory School
Hugh Brewer

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

\$500.00 Cash Awards and Certificates

Senior Division: Brian VanOsdol
Glendale High School
Fred Fotsch

Siir Kilkis
Greenwood Laboratory School
Hugh Brewer

Ginny Barnhart
Greenwood Laboratory School
Hugh Brewer

Jessica Hacker
Greenwood Laboratory School
Hugh Brewer

Rick Seagrave
Greenwood Laboratory School
Hugh Brewer

\$200.00 Cash Awards and Certificates

Junior Division: Kendra Weatherford
Pleasant View Middle School
Darlene Henne

Sophie Parker
Pleasant View Middle School
Darlene Henne

Shanna Akley
Pleasant View Middle School
Darlene Henne

Leo Elworth
St. Agnes Middle School
Lynn Vogel

Patrick Merrigan
Immaculate Conception
Elaine Marzolla

SPECIAL AWARDS

SCIENTIFIC AMERICAN

One Year Subscription to "Scientific American" and a Certificate of Award

Senior Division: Siir Kilkis
Greenwood Laboratory School
Hugh Brewer

Brian VanOsdol
Glendale High School
Fred Fotsch

Ginny Barnhart
Greenwood Laboratory School
Hugh Brewer

Matt Carlile
Greenwood Laboratory
Hugh Brewer

Rick Seagrave
Greenwood Laboratory School
Hugh Brewer

THE SMITH-GLYNN-CALLOWAY MEDICAL FOUNDATION AWARD

\$200.00 Cash Award

Senior Division: Ryan Cady
Effects of Sleep Deprivation on
Cognitive Efficiency
Greenwood Laboratory School
Hugh Brewer

Rick Seagrave
The Trainer-less Ultrasound
Treatment
Greenwood Laboratory School
Hugh Brewer

\$50.00 Cash Award

Senior Division: Julia Neal
Protozoa: Water Quality
Indicators?
Greenwood Laboratory School
Hugh Brewer

Jessica Hacker
Can Candida Albicans Be
Controlled Without Antibiotics?
Greenwood Laboratory School
Hugh Brewer

THE SMITH-GLYNN-CALLOWAY MEDICAL FOUNDATION AWARD (cont.)

\$50.00 Cash Award

Senior Division: Brad Stockdale
Antibiotic Resistant Bacteria . . .
They Are ALL Around Us!
Central High School
Protima Roy

Karen Ward
Effects of High Heeled Shoes on
Balance
Greenwood Laboratory School
Hugh Brewer

SOCIETY OF MANUFACTURING ENGINEERS

Palm Pilots

Senior Division: Rebecca Hannah
Improving the Cane as a
Navigational Device for the Blind
Glendale High School

Brian VanOsdol
Design of a Localized
Positioning System
Glendale High School

Junior Division: David Camejo
Dam It Up
St. Agnes Middle School

SOUTHWEST MISSOURI SOLAR ENERGY ASSOCIATION

Solar Calculator and Certificate

Junior Division: Casye Davidson
Solar Activity
Study Middle School
Trey Garson

Bryant Donelson
The Use of a Solar Cell
Springfield Lutheran School
Mary Brockman

Kayla Hoover
Solar Cells
Halfway Middle School
Rodney Delmont

SPECIAL AWARDS

SOUTHWEST MISSOURI SOLAR ENERGY ASSOCIATION (cont.)

Certificate of Achievement

Junior Division: Gallagher Roed
Mechanical Uses of Solar Energy
Springfield Lutheran School
Mary Brockman

Steffani Burks
Super Solar Sizzler
Marshfield Middle School
Kimberly Potter

Senior Division: Colin Towery
Efficiency of Four Methods of
Heating Water with Solar Power
Central High School
Nova Mrad

SMSU COLLEGE OF NATURAL AND APPLIED SCIENCES

\$50.00 Cash Awards

Senior Division: Brian VanOsdol
The Design of a Localized
Positioning System
Glendale High School
Sponsor: Fred Fotsch

Siir Kilkis
Mathematical Correlation
Greenwood Laboratory School
Hugh Brewer

\$50.00 Cash Award

Junior Division: Kendra Weatherford
The Effect of Caffeine on
Drosophila Melanogaster
Pleasant View Middle School
Darlene Henne

SMSU DEPARTMENT OF BIOLOGY

Certificates of Award

Senior Division: Ronald McCants
Amanda Burling
Of Mice and Gingko: An
Experiment Testing the Effect of
Gingko Biloba on Memory of
Mice
Central High School
Karen Reed

SMSU DEPARTMENT OF BIOLOGY (cont.)

Certificates of Award

Senior Division: Claire Clothiaux
A Comparative Study of the
Effects of Two Commercially
Available Fertilizers on the
Growth of Plants Using
Fabaceae Phaseolus Lunatus
Greenwood Laboratory School
Jennifer Cvitak

Rick Seagrave
The Trainer-less Ultrasound
Treatment
Greenwood Laboratory School
Hugh Brewer

Ginny Barnhart
Effect of Ammonia on
Freshwater Mussels
Greenwood Laboratory School
Hugh Brewer

Junior Division: Patrick Merrigan
Allelopathy: When Grass is
Greener Under the Other Trees
Immaculate Conception MS
Elaine Marzolla

Kendra Weatherford
The Effect of Caffeine on
Drosophila Melanogaster
Pleasant View Middle School
Darlene Henne

Catherine DiSarno
Breathe In, Breathe Out
St. Agnes Middle School
Lynn Vogel

Meghan Pfander
Water! Who Needs It?
Clever Middle School
Melissa Warren

Plaques to Teacher

Senior Division: Jennifer Cvitak
Greenwood Laboratory School

Hugh Brewer
Greenwood Laboratory School

Karen Reed
Central High School

SPECIAL AWARDS

SMSU DEPARTMENT OF BIOLOGY (cont.)

Plaques to Teachers

Junior Division: Elaine Marzolla
Immaculate Conception MS

Lynn Vogel
St. Agnes Middle School

Darlene Henne
Pleasant View Middle School

Melissa Warren
Clever Middle School

\$1,000 Work/Study Award

Senior Division: Jessica Hacker
Can Candida Albicans be
Controlled Without Using
Antibiotics?
Greenwood Laboratory School

SMSU SOCIETY OF PHYSICS STUDENTS

One Year Subscription to "Scientific American" Magazine

Senior Division: Rebecca Hannah
Improving the Cane as a
Navigational Device for the Blind
Glendale High School
Fred Fotsch

Colin Towery
Efficiency of Three Methods of
Heating Water
Central High School
Nova Mrad

SMSU – WOMEN IN SCIENCE, MATH & TECHNOLOGY

Award of a Science Kit and Certificate

Junior Division: Brittney Walker
The Effects of Acid Rain on *zea
saccharata*
Marionville Middle School
Karla Shively

Kindra Mooneyham
Brandie Courtois
Recycling Kitchen Waste
Billings Middle School
Karla Shively

STOCKHOLM JUNIOR WATER PRIZE

Certificate of Award, with the opportunity to proceed to state level competition

Senior Division: Ginny Barnhart
Effective of Ammonia on
Freshwater Mussels
Greenwood Laboratory School
Hugh Brewer

UNITED STATES AIR FORCE

Junior Division: Byron Wilcox
Robotic Climber
Springfield Lutheran MS
Mary Brockman

Patrick Crisp
Through the Fog
Hollister Middle School
Jeff Ellison

Senior Division: Brian VanOsdol
Design of a Localized
Positioning System
Glendale High School
Fred Fotsch

Adam Schoeller
Hot or Not
Greenwood Laboratory School
Hugh Brewer

UNITED STATES ARMY ROTC

Certificates of Achievement signed by the Secretary of the Army with a presentation folder, and Ultimate Daypack

Senior Division: Adam Schoeller
Hot or Not
Greenwood Laboratory School
Hugh Brewer

Ryan Gerecht
Sarah Enser
Effectiveness of Food
Preservatives in Unusually Harsh
Conditions
Central High School
Karen Reed

SPECIAL AWARDS

UNITED STATES ARMY ROTC (cont.)

Certificates of Achievement signed by the Secretary of the Army with a presentation folder, and Ultimate Daypack

Senior Division: Matt Carlile
The Effective of Auditory Sonic
Waves on Reaction Rates
Greenwood Laboratory School
Hugh Brewer

Siir Kilkis
The Mathematical Correlation of
Sound and Light Waves
Greenwood Laboratory School
Hugh Brewer

Adam Clarke
Matt Trtan
Andrew Netzer
The Effects of Caffeine on Mice
Parkview High School
Kathleen Hodge

UNITED STATES METRIC ASSOCIATION

Certificate of Outstanding Achievement

Senior Division: Siir Kilkis
Mathematical Correlation
Greenwood Laboratory School
Hugh Brewer

WALLACE WEBER MEMORIAL AWARD FOR BOTANY

\$25.00 Cash Award

Junior Division: Patrick Merrigan
Allelopathy: When Grass is
Greener Under the Other Trees
Immaculate Conception MS
Elaine Marzolla

WATERSHED COMMITTEE OF THE OZARKS

\$50.00 Savings Bond

Senior Division: Brad Young
Comparison of Stream Habitats
for Niangua Darter
Pleasant Hope High School
Gail Emrie

WATERSHED COMMITTEE OF THE OZARKS (cont.)

\$50.00 Savings Bond

Senior Division: Ginny Barnhart
Ammonia Toxicity and
Freshwater Mussels
Greenwood Laboratory School
Hugh Brewer

Junior Division: Sarah Francka
Dissolved Oxygen Levels in
Finley Creek
Immaculate Conception MS
Elaine Marzolla

YALE SCIENCE AND ENGINEERING ASSOCIATION, INC.

Award Certificate

Senior Division: Siir Kilkis
Mathematical Correlation
Greenwood Laboratory School
Hugh Brewer

DR. GARY A. KELL AWARD

This cash award of \$250.00 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 2001 is:

Lynn Vogel, St. Agnes Middle School

DR. WARFORD B. JOHNSON, SR., MEMORIAL AWARD

This cash award of \$1,000.00 is awarded to the Senior High Teacher who sponsored the most students winning placement awards. Half of the award is to be used for the purchase of classroom research equipment for his/her classroom, and half is for the teacher personally. The recipient of the Johnson Award for 2001 is:

Hugh Brewer
Greenwood Laboratory School

TEACHER PARTICIPATION AWARD

This award of a two-night stay at Howard Johnson's in Branson, Missouri is given to a new sponsor with the most placement awards. The recipient of the 2001 Teacher Participation Award is:

Elaine Marzolla, Immaculate Conception MS

SPECIAL AWARDS

POSITRONIC INDUSTRIES TEACHER AWARD

This cash award of \$75.00 is awarded to the Teacher, either Junior High, Middle School or Senior High, with the most total entries. The recipient of the Positronic Award for 2001 is:

Lynn Vogel, St. Agnes Middle School

OZARKS SCIENCE AND ENGINEERING FAIR FOUNDATION SENIOR DIVISION TEACHER AWARD

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 Award for 2001 are:

Hugh Brewer, Greenwood Laboratory School
Jennifer Cvitak, Greenwood Laboratory School
Fred Fotsch, Glendale High School
Karen Reed, Central High School

OZARKS SCIENCE AND ENGINEERING FAIR FOUNDATION JUNIOR DIVISION TEACHER AWARD

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 Award for 2001 are:

Lynn Vogel, St. Agnes Middle School
Darlene Henne, Pleasant View Middle School
Elaine Marzolla, Immaculate Conception MS
Aaron Tillman, Marshfield Middle School
Mary Brockman, Springfield Lutheran School
Margaret LaCavera, Spokane Middle School
Melissa Warren, Clever Middle School

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

This award of a three-year set of books of International Science and Engineering Fair abstracts 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 2001 is:

Darlene Henne
Pleasant View Middle School

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

This award of a three-year set of books of International Science and Engineering Fair abstracts and a plaque is awarded to the teacher(s) of the Senior Division Grand Prize student project. The recipients of the OSEF Foundation Senior Division Grand Prize Teacher Award for 2001 are:

Fred Fotsch
Glendale High School

Hugh Brewer
Greenwood Laboratory School