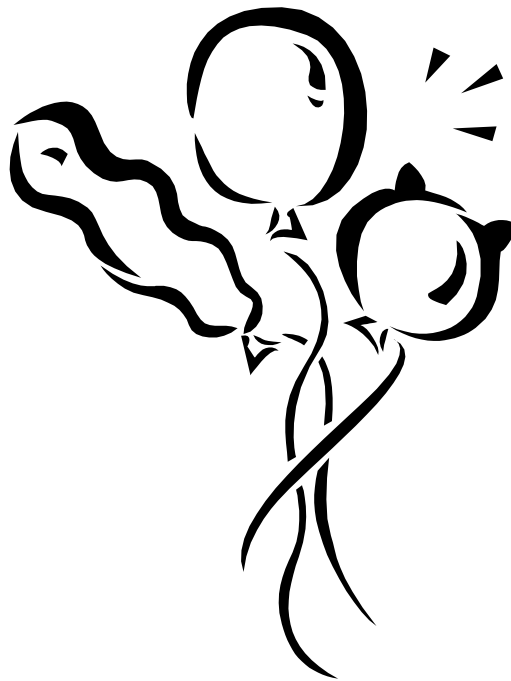


# **OZARKS SCIENCE & ENGINEERING FAIR**

**HAMMONS STUDENT CENTER  
SOUTHWEST MISSOURI STATE UNIVERSITY**

**April 1, 2, & 3, 2003**



## **2003 WINNERS**

**Sponsored By:**

**Southwest Missouri State University**

**Clariant**

**Kraft Foods, Inc.**

**Associated Electric Cooperative, Inc.**

**3M Corporation**



THE 43<sup>RD</sup> ANNUAL

**OZARKS SCIENCE AND  
ENGINEERING FAIR**



**AWARDS CEREMONY**

APRIL 3, 2003

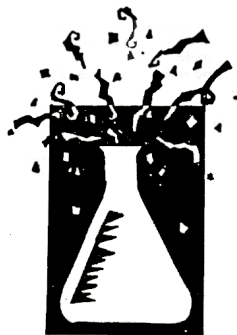
6:00 PM

**HAMMONS STUDENT CENTER, SMSU**

**THE 43<sup>RD</sup> ANNUAL  
OZARKS SCIENCE AND ENGINEERING FAIR  
AWARDS CEREMONY**

6:00 PM	WELCOMING REMARKS	MICHELLE NORGRN, EXECUTIVE DIRECTOR, OZARKS SCIENCE AND ENGINEERING FAIR
	PRESENTATION OF AWARDS	MASTER OF CEREMONIES: JEFF ROGERS, PRESIDENT, BOARD OF DIRECTORS, OZARKS SCIENCE AND ENGINEERING FAIR FOUNDATION
	PLACEMENT AWARDS	JUNIOR DIVISION
	PLACEMENT AWARDS	SENIOR DIVISION
	SPECIAL AWARDS	
	TEACHER AWARDS	
	GRAND PRIZE AWARD	JUNIOR DIVISION
	GRAND PRIZE AWARD	SENIOR DIVISION

**CONGRATULATIONS TO ALL OF OUR  
WINNERS!**





## **MASTER OF CEREMONIES**

MR. JEFF ROGERS  
CHAIRMAN, BOARD OF DIRECTORS  
OZARKS SCIENCE & ENGINEERING FAIR FOUNDATION



## **OSEF COMMITTEE MEMBERS**

EXECUTIVE DIRECTOR:	MICHELLE NORGRN
SPECIAL AWARDS:	JENN CVITAK, CHAIR
	GINGER GRAY
PLACEMENT AWARDS:	MELINDA UNTIEDT
SCIENCE DAY:	JANICE HORTON
PUBLICITY:	SANDY BROERMAN
WEB PAGE DEVELOPMENT:	SUE MCCRORY
VOLUNTEERS:	MICHELLE NORGRN
CORPORATE DISPLAYS:	JAMES K. TICE
RULES & REGULATIONS:	HUGH BREWER
AWARD CEREMONY:	TIM ZIEGLER
ELEMENTARY FAIR:	KATHY SHADE



## **SCIENTIFIC REVIEW COMMITTEE**

DR. TOM TOMASI, CHAIR  
DR. JACK STEIERT, MICROBIOLOGY  
DR. BRYAN BREYFOGLE, CHEMISTRY  
DR. MATTHEW FANETTI, HUMAN BEHAVIOR  
DR. MICHAEL PFANDER, DVM, NONHUMAN VERTEBRATES



## **MAJOR SPONSORS**

SOUTHWEST MISSOURI STATE UNIVERSITY

CLARIANT

KRAFT FOODS, INC.

ASSOCIATED ELECTRIC COOPERATIVE, INC.

3M CORPORATION

## **2003 AWARD SPONSORS**

AMERICAN CHEMICAL SOCIETY – OZARK  
SECTION

AMERICAN FOUNDATION FOR VISION  
AWARENESS

AMERICAN METEOROLOGICAL SOCIETY

AMERICAN SOCIETY OF MAMMALOGISTS

ARRIS PIZZA

THE ASM INTERNATIONAL FOUNDATION

ASSOCIATION FOR WOMEN GEOSCIENTISTS

BAKER CHAIR OF INSURANCE/GAMMA IOTA  
SIGMA

CHRISTIAN PUBLISHERS OUTLET

CITY UTILITIES OF SPRINGFIELD

CITY OF SPRINGFIELD – SOLID WASTE  
MANAGEMENT DIVISION

COMMUNITY FOUNDATION OF THE OZARKS

COMMUNITY HOSPICE OF AMERICA

CONCO COMPANIES

DISCOVERY CHANNEL

FERRELL-DUNCAN

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

DRURY UNIVERSITY

EASTMAN KODAK

EVANGEL UNIVERSITY

EXPANDING YOUR HORIZONS (SMSU WOMEN IN  
SCIENCE)

GREATER OZARKS AUDUBON SOCIETY

GREENE COUNTY RESOURCE MANAGEMENT  
DEPARTMENT

HEARD, HEARD & VOGEL

HERBERT HOOVER PRESIDENTIAL LIBRARY  
ASSOCIATION

HORAN & BECKER

INTEL

IRENE BRUNNER MEMORIAL AWARD

JUNE FENDER MEMORIAL AWARD

KRAFT FOODS, INC.

MARK IV AUTOMOTIVE

MARTIAL ARTS USA

MISSOURI SOCIETY OF PROFESSIONAL ENGINEERS

MISSOURI SOLAR ENERGY ASSOCIATION

THE LOU & NADINE MOORE MEMORIAL AWARD

OZARK AREA PHARMACEUTICAL ASSOCIATION

OZARKS AREA PSYCHOLOGICAL ASSOCIATION

OZARKS SCIENCE & ENGINEERING FAIR  
FOUNDATION

POSITRONIC INDUSTRIES

THE REGIONAL FAIR DIRECTOR EMERITUS “SYLVIA  
SPEAR” AWARD

SCHNEIDER FOUNDATION

SMITH-GLYNN-CALLOWAY FOUNDATION

SOCIETY FOR IN-VITRO BIOLOGY

SOCIETY OF MANUFACTURING ENGINEERS

SOUTHWEST MISSOURI AREA HEALTH  
EDUCATION CENTER

SMSU COLLEGE OF NATURAL & APPLIED SCIENCES

SMSU DEPARTMENT OF BIOLOGY

SMSU SOCIETY OF PHYSICS STUDENTS

SMSU STUDENT AFFILIATE CHAPTER OF THE  
AMERICAN CHEMICAL SOCIETY

TROPHIES, ETC.

UNITED STATES AIR FORCE

UNITED STATES DEPARTMENT OF HEALTH &  
HUMAN SERVICES

WALLACE WEBER MEMORIAL AWARD

WATERSHED COMMITTEE OF THE OZARKS

YALE SCIENCE & ENGINEERING ASSOCIATION

**SENIOR DIVISION GRAND PRIZE WINNERS  
AND ALTERNATES**

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

**GRAND PRIZE**

Siir Kilkis

Engineering Visual Orchestration Technology: Music Painter

Greenwood High School

Hugh Brewer

**GRAND PRIZE**

Ryan Cady

The Effects of Botulinum Toxin on Trigeminal Cells

Greenwood High School

Hugh Brewer

**FIRST ALTERNATE**

Sarah Haseltine

Stinky Stimulation

Greenwood High School

Hugh Brewer

**SECOND ALTERNATE**

Beth Brockman

Tetracycline Effects on Triclosan Resistant E. coli

Glendale High School

Charles Rey

**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**

Kendra Weatherford

Of Mus Musculus Domestsicus and Men

Pleasant View Middle School

Darlene Henne

**ALTERNATE**

Neal Pinkerton

To Feed or Not To Feed: That is the Question

Immaculate Conception Middle School

Elaine Marzolla

# JUNIOR DIVISION PLACEMENT AWARDS

## BEHAVIORAL AND SOCIAL SCIENCES

- 1st Place: Kendra Weatherford  
Of Mus Musculus Domesticus and Men  
Darlene Henne, Pleasant View
- 2nd Place: Sebastian Karuppan  
Does Music Affect Your Pulse?  
Elaine Marzolla, Immaculate Conception
- Brittani Shockley  
Male or Female?  
Aaron Tillman, Marshfield MS
- Bryant Donelson  
The Effectiveness of Various Colored Lights  
Lynn Vogel, St. Agnes MS
- 3rd Place: Rachel Franka  
Competition vs. Practice Session  
Lynn Vogel, St. Agnes MS
- Breanna Daniels  
Don't Let the Pressure Get You!  
Jeff Ellison, Hollister MS
- Sara Strong  
Taken to Heart  
Aaron Tillman, Marshfield JH
- 4th Place: Kellen McLean Lutz  
What Is Fuchsia and Why Should You Care?  
Rebecca Jamieson-Pugh, Hickory Hills MS
- Kaitlyn McConnel  
To Read or Not to Read  
Aaron Tillman, Marshfield MS

## BIOCHEMISTRY

- 1st Place: Abby Callen  
Are My Teeth Really Clean?  
Tim Zeigler, Pipkin MS
- 2nd Place: Ann Moran  
Dialysis Diffusion  
Darlene Henne, Pleasant View
- 3rd Place: Erin Spicher  
Paper or Plastic  
Aaron Tillman, Marshfield JH
- 4th Place: Brian Linneman  
How Good Are Your Taste Buds?  
Elaine Marzolla, Immaculate Conception

## BOTANY

- 1st Place: Hailey Kiser  
Plants & Pollution  
Kim Potter, Marshfield JH

## BOTANY (cont.)

- 2nd Place: Michael Rensche  
Zeb Wallace  
White, Red, Black, or Green: Which is Better?  
Karla Shiveley, Billings MS
- Lauren Dorris  
Smart or Mysterious: I Need to Know  
Darlene Henne, Pleasant View
- 3rd Place: Tony Marzolla  
Growth to the Beat  
Kathryn Keller, St. Joseph MS
- Kurtis Grothuff  
That's One Weird Plant  
Lynn Vogel, St. Agnes MS
- 4th Place: Brady Yates  
Symbiosis of Redwiggles and Fescue Grass  
Darlene Henne, Pleasant View
- Andrew Rhodes  
The Effect of Phototropism in Lima Bean Plants  
Elaine Marzolla, Immaculate Conception

## CHEMISTRY

- 1st Place: Olivia McGoon  
Weather Cookies  
Kim Potter, Marshfield JH
- 2nd Place: Ronald Dy  
True Colors  
Elaine Marzolla, Immaculate Conception
- Katie Finch  
Super Bubble  
Lynn Vogel, St. Agnes MS
- Kim Koch  
Extravagant or Frugal?  
Lynn Vogel, St. Agnes MS
- Joseph Highley  
Strong Ash Can Be  
Jennifer Cvitak, Cherokee
- 3rd Place: Ben Ceaser  
Matt Halvorson  
Acid Action  
Crystal Wood, Cherokee
- Alonzo Shockley  
Dissolving: Fast or Slow?  
Tim Zeigler, Pipkin MS
- Emily Wagman  
Ionically Speaking  
Jackie Hutcherson, Cherokee

## CHEMISTRY (cont.)

- 4th Place: Jack Hume  
Rust or Bust  
Elaine Marzolla, Immaculate Conception
- Wyko Ter Haar  
Put It On A Penny  
Lynn Vogel, St. Agnes MS
- Shasta Beckers  
Which Cleaner is Meaner?  
Lynn Vogel, St. Agnes MS
- Katrina Otagan  
Do You Know Your Soda?  
Kathryn Keller, St. Joseph

## EARTH AND SPACE SCIENCES

- 1st Place: Nick Hurt  
The Effects of the Time of Day & Changing of Seasons  
Lynn Vogel, St. Agnes MS
- 2nd Place: David Miller  
Does Weather Affect the Accuracy of a Sundial?  
Andrea Cox, Pipkin MS
- 3rd Place: Luke Burmeister  
Heat Effects on Land Forms  
Lynn Vogel, St. Agnes MS
- 4th Place: Kyle Pavlin  
Dark Shades Aren't Always Cool  
Jennifer Cvitak, Cherokee

## ENGINEERING

- 1st Place: James Bird  
Blast Off!  
Lynn Vogel, St. Agnes
- 2nd Place: Jake Harmon  
Trebuchet Catapult  
Debbie Powell, Mark Twain
- Ryan Hutsell  
Car Oils  
Elaine Marzolla, Immaculate Conception
- 3rd Place: Kelly Toner  
Cold and Water?  
Colleen Merrigan, Cherokee
- Kelsey Lott  
You're Drinking This?  
Aaron Tillman, Marshfield JH
- 4th Place: Jacob Wardein  
Tune In!  
Lynn Vogel, St. Agnes MS



# JUNIOR DIVISION PLACEMENT AWARDS

## ENGINEERING (cont.)

4th Place: Kyle Ellman  
Riding on Air  
Elaine Marzolla, Immaculate  
Conception

## ENVIRONMENTAL SCIENCES

1st Place: Eric Powell  
Killer Salt  
Jackie Hutcherson, Cherokee

2nd Place: Mike Renkoski  
Aquaponics: The Future of Food?  
Lynn Vogel, St. Agnes MS

3rd Place: Kelly McCurry  
Effects of Rivercut Housing  
Development on Water Quality of the  
James River  
Jackie Hutcherson, Cherokee

4th Place: Raeann Edson  
Fuel Cells: Power of the Future  
Jeff Ellison, Hollister MS

## MATHEMATICS / COMPUTER SCIENCE

1st Place: Paul Huang  
Cryptology: Data Security  
Nova Mrad, Central

2nd Place: Johnny Tucker  
Great Soccer Goals  
Lynn Vogel, St. Agnes MS

Lacy Geiger  
Distant Cousins  
Margaret LaCavera, Spokane

3rd Place: Maverick Smith  
Golden Section!  
Margaret LaCavera, Spokane

Sam Williams  
Jess Renner  
Rollin', Rollin', Rollin'  
Aaron Tillman, Marshfield JH

4th Place: Rebekah Francisco  
Pascal & Probability  
Nancy Coffelt, Spokane MS

## MEDICINE AND HEALTH

1st Place: Sarah Beasley  
Is Dissolved Aluminum Found in  
Aseptic Containers?  
Hugh Brewer, Greenwood MS

2nd Place: Hanna Dobard  
How Bright Are Your Pearly Whites?  
Elaine Marzolla, Immaculate  
Conception

## MEDICINE AND HEALTH (cont.)

2nd Place: Julie Putman  
Location, Location, Location  
Darlene Henne, Pleasant View

3rd Place: Wenonah Toney  
Sucrose Boost  
Aaron Tillman, Marshfield JH

Nicholas Neighbors  
Destructive Decay  
Elaine Marzolla, Immaculate  
Conception

4th Place: Brandon Lewis  
Rot, Rot, Rot Away  
Elaine Marzolla, Immaculate  
Conception

Divya Viswanathon  
Baby Within  
Lynn Vogel, St. Agnes MS

## MICROBIOLOGY

1st Place: Raymond Wong  
Doing My Laundry With UV Light  
Elaine Marzolla, Immaculate  
Conception

2nd Place: Ehren Ekhaus  
Germathon  
Jackie Hutcherson, Cherokee

3rd Place: Aleshia Fenimor  
Got Bacteria?  
Darlene Henne, Pleasant View

4th Place: Eric Camejo  
Bacterianator  
Lynn Vogel, St. Agnes MS

## PHYSICS

1st Place: Josh Holland  
Magnetism, Attraction and Reaction  
Jennifer Cvitak, Cherokee

2nd Place: Emily Watt  
Radiation Exposure: Which Little Pig  
is the Safest?  
Lynn Vogel, St. Agnes MS

Kevin Satzinger  
Variant Light Sources and  
Photovoltaic Cell Output  
Nova Mrad, Central

Claire Dohmen  
Time Flies When the Clock Starts  
Lynn Vogel, St. Agnes MS

3rd Place: Claire Lukachick  
Strength By Color  
Lynn Vogel, St. Agnes MS

## PHYSICS (cont.)

3rd Place: Chelsea Stieb  
What's the Strength?  
Elaine Marzolla, Immaculate  
Conception

Emily Potts  
Want to Go the Distance?  
Elaine Marzolla, Immaculate  
Conception

Nick Bratten  
A Light Bulb and A Microwave Oven  
Jeff Ellison, Hollister MS

4th Place: David Camejo  
It's Just a Matter of Time  
Lynn Vogel, St. Agnes MS

Lauren Long  
Light It Up  
Kathryn Keller, St. Joseph MS

## ZOOLOGY

1st Place: Neal Pinkerton  
To Feed or Not to Feed: That is the  
Question  
Elaine Marzolla, Immaculate  
Conception

2nd Place: Patrick Merrigan  
Shocking Shrimp  
Elaine Marzolla, Immaculate  
Conception

Laura Glenn  
Ashley Gastineau  
Ant Invasion  
Aaron Tillman, Marshfield JH

3rd Place: Hillary Betzen  
How Eating Habits Affect Animal  
Blood Glucose  
Elaine Marzolla, Immaculate  
Conception

Jessica Quintus  
A "Maze"ing Mice  
Lynn Vogel, St. Agnes MS

4th Place: Casey Clark  
Let 'Em Grow  
Lannie Hinote, Skyline MS

Abbey Eoff  
Got Worms?  
Jackie Hutcherson, Cherokee

# SENIOR DIVISION PLACEMENT AWARDS

## BEHAVIORAL AND SOCIAL SCIENCES

1st Place: Megan Keith  
Brand Value Perception: Effect of  
Gender, Age, & Product  
Hugh Brewer, Greenwood

2nd Place: Caleb Masterson  
Perceived Exertion in Elementary  
Children  
Hugh Brewer, Greenwood

3rd Place: Sara Dunseth  
The Right Brain Connection to  
Sound  
Rodney Delmont, Halfway

## BIOCHEMISTRY

1st Place: Sarah Haseltine  
Stinky Stimulation  
Hugh Brewer, Greenwood

2nd Place: Tyler Montileone  
A Correlation Between Blood  
Glucose Levels & Saliva  
Hugh Brewer, Greenwood

3rd Place: Heather Claunch  
How Simple is That Sugar?  
Rodney Delmont, Halfway

4th Place: Nikki Meltabarger  
Look Y'all, Vitamin C  
David Smith, Billings HS

## BOTANY

1st Place: Kaleen Long  
Super Strawberry Saver  
Hugh Brewer, Greenwood

2nd Place: Wai-Lun Tsang  
CCA Uptake in Plants  
Charles Rey, Glendale HS

3rd Place: Kaylen Schubrick  
Roses Are Red, Violets Are Blue:  
Which Solution Works Best?  
I Can Help You!  
Pam Thompson, Bolivar HS

4th Place: Ben Thomas  
The Effects of Gibberellic Acid on  
Soybeans  
Hugh Brewer, Greenwood

## CHEMISTRY

1st Place: Karen Ward  
A Comparison of Friction  
Reducing Agents  
Hugh Brewer, Greenwood

## CHEMISTRY (cont.)

2nd Place: Stuart Lloyd-Smith  
Let It Burn  
Jill Palmer, Kickapoo

3rd Place: Dennis Spisak  
Power of Enzymes  
Hugh Brewer, Greenwood

4th Place: Brad Stockdale  
Don't Get Burned: The Study of  
UV Absorption of Sunscreen  
Protima Roy, Central HS

## EARTH/SPACE SCIENCE

3rd Place: Jonathan McWilliams  
Cave Restoration  
Charles Rey, Glendale HS

4th Place: Christopher Loges  
Crinoids  
Dan McCorkendale, Buffalo

## ENGINEERING

1st Place: Siir Kilkis  
Engineering Visual Orchestration  
Technology: Music Painter  
Hugh Brewer, Greenwood

2nd Place: Christopher Jones  
Internet Braille Chat  
Fred Fotsch, Glendale HS

3rd Place: Patrick Binning  
The Effects of Helium in  
Aeronautics  
Hugh Brewer, Greenwood

4th Place: Joe Todd  
A Trebuchet On Wheels & Off  
Treva Henderson, Sparta

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

1st Place: Michael Holst  
The Effects of Caffeine on  
Freshwater Daphnia  
Hugh Brewer, Greenwood

2nd Place: Ashley Goad  
What are the Effects of a  
Lowered Potentiometric Surface?  
Geri Brown, Strafford HS

3rd Place: Ryan Forrester  
Phosphate Removal by Chemical  
Addition  
Charles Rey, Glendale HS

## ENVIRONMENTAL (cont.)

4th Place: Brad Young  
A Correlation Between Darter  
Population & Physical Habitat on  
the North Dry Sac  
Gail Emrie, Pleasant Hope

## MEDICINE AND HEALTH

1st Place: Ryan Cady  
The Effects of Botulinum Toxin on  
Trigeminal Cells  
Hugh Brewer, Greenwood

2nd Place: Claire Clothiaux  
Does Synthetic Hyaluronic Acid  
Improve Joint Lubrication?  
Hugh Brewer, Greenwood

3rd Place: Jeremy Long  
Quigong & Its Medical Benefits  
Charles Rey, Glendale HS

4th Place: Zachary Seagrave  
Mandible Mastication  
Hugh Brewer, Greenwood

## MICROBIOLOGY

1st Place: Beth Brockman  
Tetracycline Effects on Triclosan  
Resistant E. Coli  
Charles Rey, Glendale HS

2nd Place: Tricia McNeive  
The Effect of Antibacterial Hand  
Sanitizer on Micrococcus Roseus  
Bacteria  
James Flora, Pleasant Hope

3rd Place: Triet Ngo  
To Use or To Misuse  
Karen Reed, Central HS

## PHYSICS

1st Place: David Mathews  
Too Many Spoilers to Choose  
From  
Treva Henderson, Sparta

2nd Place: Matthew Nichols  
Trajectory – What's Your Angle?  
Treva Henderson, Sparta

3rd Place: Brandon Hacker  
What Are Spoilers For?  
Treva Henderson, Sparta

4th Place: Jenny Stillwell  
A Closer Look at the Entropy &  
Specific Heat Deviation of Metals  
in Instruments  
Geri Brown, Strafford HS

# SPECIAL AWARDS

## AEROSPACE SUMMIT – CONSTELLATION CLUB – TROPHIES ETC.

*Small Plaque & \$50.00 Cash*

Junior Division:

*Large Plaque & \$50.00 Cash*

Senior Division:

## AMERICAN CHEMICAL SOCIETY, OZARKS SECTION

*Set of Books*

Senior Division:

## AMERICAN CHEMICAL SOCIETY, STUDENT CHAPTER

*Subscription to Scientific American*

Junior Division:

## AMERICAN FOUNDATION OF VISION AWARENESS – MISSOURI

*\$100.00 Cash and a Plaque*

Junior Division:

## AMERICAN METEOROLOGICAL SOCIETY

*Certificate of Award*

Senior Division:

## AMERICAN SOCIETY OF MAMMALOGISTS

*Certificates of Award*

Junior Division:

## THE ASM INTERNATIONAL FOUNDATION

*Award Certificate and Medallion*

Senior Division:

## THE ASSOCIATION OF WOMEN GEOSCIENTISTS

*Certificate of Award*

Senior Division:

## BAKER CHAIR OF INSURANCE/GAMMA IOTA SIGMA AWARD

*\$25.00 Cash and certificate of achievement*

Senior Division:

## IRENE BRUNNER MEMORIAL AWARD

*\$25.00 Cash*

Junior Division:

*\$25.00 Cash*

Senior Division:

## CITY OF SPRINGFIELD – SOLID WASTE DIVISION

*Recycled Plastic Soda Bottle T-Shirt*

Junior Division:

## CITY UTILITIES OF SPRINGFIELD

*\$200.00 Cash*

Junior Division:

Senior Division:

## COMMUNITY HOSPICE OF AMERICA

*\$25.00 Gift Cards*

Junior Division:

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

*Certificate of Award*

Senior Division:

## THE DISCOVERY CHANNEL YOUNG SCIENTIST CHALLENGE

*2003 DCYSC Entry Booklet, 2003 DCYSC Certificate of Recognition, and 2003 DCYSC Lapel Pin*

Junior Division:

## THE DISCOVERY CHANNEL YOUNG SCIENTIST CHALLENGE (cont.)

*2003 DCYSC Entry Booklet, 2003 DCYSC Certificate of Recognition, and 2003 DCYSC Lapel Pin*

Junior Division:

*Honorable Mention – T-shirts*

Junior Division:

## DRURY UNIVERSITY

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

Senior Division:

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

Senior Division:

## EASTMAN-KODAK PHOTOGRAPHY AWARD

*Photographic Award Kit for Student and Sponsoring Teacher*

Junior Division:

## EVANGEL UNIVERSITY

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

Senior Division:

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

Senior Division:

## EXPANDING YOUR HORIZONS: WOMEN IN SCIENCE

*Women In Science Kits*

Junior Division:

## JUNE FENDER MEMORIAL BIOLOGY AWARD

*\$50.00 Cash*

Junior Division:

*\$50.00 Cash*

Senior Division:

## GREATER OZARKS AUDUBON SOCIETY

*Membership and Guide*

Junior Division:

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

*Travel & Expenses Paid to Groundwater University during the summer of 2003*

Junior Division:

## DR. JEFFREY S. HEARD DENTISTRY AWARD

*\$25 Cash for the Dental Field*

Senior Division:

## HERBERT HOOVER PRESIDENTIAL LIBRARY ASSOCIATION "YOUNG ENGINEER AWARD"

# SPECIAL AWARDS

*Certificate of Award and Medallion*

Senior Division:

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

*\$100.00 Health Science Award*

Senior Division:

**THE INTEL EXCELLENCE IN COMPUTER SCIENCE AWARD**

*Certificate of Award*

Senior Division:

**THE 2003 KRAFT AWARD (sponsored by Kraft Foods, Inc.)**

*\$50.00 Cash (if given to partners, each partner will receive \$50.00)*

Senior Division:

**MARK IV AUTOMOTIVE**

*Plaque and Gift Certificate*

Junior Division:

Senior Division:

**MARTIAL ARTS USA**

*\$75.00 Cash (shared) and free month of Tae Kwon Do membership (each)*

Junior Division:

**MISSOURI SOCIETY OF PROFESSIONAL ENGINEERS, Ozarks Chapter**

*\$75.00 Cash*

Senior Division:

*\$50.00 Cash*

Junior Division:

**MISSOURI SOLAR ENERGY ASSOCIATION**

*Calculators*

Junior Division:

**THE LOU & NADINE MOORE MEMORIAL AWARD**

*Graphing Calculators*

Junior Division:

**OZARK AREA PHARMACEUTICAL ASSOCIATION**

*\$75.00 Cash*

Junior Division:

*\$75.00 Cash*

Senior Division:

**OZARK AREA PSYCHOLOGICAL ASSOCIATION**

*A First Place Plaque*

Senior Division:

*A Second Place Plaque*

Senior Division:

*A Third Place Plaque*

Senior Division:

*Honorable Mention Plaque*

Senior Division:

**POSITRONIC INDUSTRIES ENVIRONMENTAL AWARD**

*\$25.00 Cash and Certificate of Award*

Senior Division:

**POSITRONIC INDUSTRIES RESEARCH AWARD**

*Certificates of Award and Desk Clocks to Students*

Junior Division:

*Certificates of Award and Desk Clocks to Teachers*

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

*\$200.00 Cash and Certificates*

Junior Division:

*\$500.00 Cash*

Senior Division:

**THE SMITH-GLYNN-CALLOWAY MEDICAL FOUNDATION AWARD**

*\$50.00 Cash*

Junior Division:

*\$100.00 Cash*

Senior Division:

**SOCIETY FOR IN VITRO BIOLOGY**

*Certificate of Merit, Letter of Congratulations, and Publication of Honor in Newsletter and web site*

Senior Division:

**SOCIETY OF MANUFACTURING ENGINEERS**

*Hewlett Packard Calculators*

Junior Division:

Senior Division:

**SOUTHWEST MISSOURI AREA HEALTH EDUCATION CENTER "MEDICINE & HEALTH AWARDS"**

*\$20 Cash and Certificate of Achievement*

Junior Division:

Senior Division:

*\$30 Cash and Certificate of Achievement*

Junior Division:

Senior Division:

**SOUTHWEST MISSOURI AREA HEALTH EDUCATION CENTER "MEDICINE & HEALTH AWARDS" (cont.)**

*\$50 Cash and Certificate of Achievement*

Junior Division:

**SOUTHWEST MISSOURI AREA HEALTH EDUCATION CENTER "MEDICINE & HEALTH AWARDS" (cont.)**

*\$50 Cash and Certificate of Achievement*

Senior Division:

**SOUTHWEST MISSOURI AREA HEALTH EDUCATION CENTER "RURAL HEALTH SCHOLAR" AWARD**

*\$100 Cash and Certificate of Achievement*

Junior Division:

*\$200 Cash and Certificate of Achievement*

Senior Division:

**SOUTHWEST MISSOURI AREA HEALTH EDUCATION CENTER "MEDICINE & HEALTH SCHOLAR" AWARD**

*\$250.00 Cash and Certificate of Achievement*

Senior Division:

# SPECIAL AWARDS

## SMSU DEPARTMENT OF BIOLOGY

*Certificates to student and plaques to teachers*

Junior Division:

*Certificates to student and plaques to teachers*

Senior Division:

*\$1,000 Work/Study Award*

Senior Division:

## SMSU COLLEGE OF NATURAL AND APPLIED SCIENCES

*\$50.00 Cash*

Junior Division:

Senior Division:

## SMSU SOCIETY OF PHYSICS STUDENTS

*One Year Subscription to "Scientific American" Magazine*

Senior Division:

## STOCKHOLM JUNIOR WATER PRIZE

*Award Certificate and Nomination for State Competition*

Senior Division:

## UNITED STATES AIR FORCE

*Messenger Bag, DayPlanner with Databank, Certificate of Achievement and Medallion*

Junior Division:

*Messenger Bag, DayPlanner with Databank, Certificate of Achievement and Medallion, T-shirt and Nomination to Air Force Research Lab "Century of Flight" Award*

Senior Division:

## UNITED STATES METRIC ASSOCIATION

*Certificate of Award*

Senior Division:

## WALLACE WEBER MEMORIAL AWARD FOR BOTANY

*\$25.00 Cash*

Senior Division:

## WATERSHED COMMITTEE OF THE OZARKS

*Savings Bonds*

Junior Division:

Senior Division:

## YALE SCIENCE & ENGINEERING ASSOCIATION, INC.

*Award Certificate and Medallion*

Senior Division:

## ARRIS PIZZA NEW TEACHER RECOGNITION AWARD

*\$20.00 Cash and a \$20.00 Gift Certificate for the First Time High School Teacher with the most total entries.*

## CHRISTIAN PUBLISHERS OUTLET NEW TEACHER RECOGNITION AWARD

*\$20.00 Cash and a \$15.00 Gift Certificate to the First Time Middle School Teacher with the most total entries.*

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

*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 2003 is:*

## 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 2003 is:*

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

*\$20 Cash to a First Time Teacher.*

## 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 2003 is:*

## OZARKS SCIENCE AND ENGINEERING FAIR FOUNDATION TEACHER OF THE YEAR AWARD

*This award of a plaque and all-expenses-paid trip to the 2003 International Science and Engineering Fair is awarded to:*