

17th Annual



Senior & Junior
WINNER'S BOOK



Missouri Southern State University

March 28-30, 2006

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WINNERS SENIOR DIVISION

2006 Grand Prize Winners (\$100 each)

Jessica Baker
Logan Skelley

Seneca High School
Joplin High School

1ST Alternate: **Tara Crousen** Seneca High School
2nd Alternate: **Ashley Enyart** Seneca High School

Missouri Southern Scholarship Winners: First Place in Each Senior Division Category

Seagan Chapman
Jessica Baker
Nicole Robinson
Logan Skelley
Tara Crousen

Sarcoxie
Seneca
Seneca
Joplin
Seneca



Outstanding Sponsoring Teacher Award:

(\$100 check & plaque each)

Sr. High: Shannon Sample
Jr. High: Ivan Obert

Seneca Sr. High
Memorial Jr. High





2006 SPECIAL AWARDS



American Psychological Association (*certificate*)
Seagan Chapman – Sarcoxie High School

Audubon Society – Ozark Gateway Chapter (*\$25 cash & certificates*)
Senior High: Rebeca Schaefer – Marionville High
Junior High: Kaleb Rohen – Seneca Middle School

Discovery Young Scientist Challenge Awards (Jr. High)
(*pin & certificate & nomination to National Competition*)

Ashley Larson – Seneca – Behavioral Science
David Robinson – Sarcoxie - Biochemistry
Michael Reinsvold – Thomas Jefferson - Botany
Colin Hughes – Memorial Middle School - Botany
Shelby Baker – Aurora - Chemistry
Barbara Sandlin – North Middle School – Chemistry
Cody Taylor – Noel - Engineering
Julia Lewis – Memorial Middle School - Physics
Michelle Barchak – Memorial Middle School – Physics
Garrett Black – Aurora – Zoology

Empire District Electric Environmental Award (*1st place-plaque & \$40 each, 2nd place - plaque*)

Senior High: 1st – Jessica Baker - Seneca High School
2nd – Logan Skelley – Joplin High School
Junior High: 1st – Kaleb Rakes – Seneca Middle School
2nd – Alan Hay – Noel

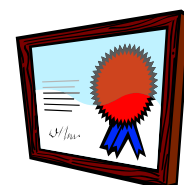
Herbert Hoover Presidential Library Association (*medallion + certificate*)
Taylor Cody – Webb City

Missour Society of Professional Engineers (*Plaque & Check*)
Logan Skelley – Joplin High School
Lindsey Gregory – Granby Jr. High

Mu Alpha Theta Award (*certificate*)
Logan Skelley – Joplin High School

National Society of Professional Engineers (*certificate + pin*)
Lindsey Gregory - Granby

Perry Thomas Memorial Award (*\$25 & plaque*)
Courtney Scott – Seneca Middle School



Stockholm Junior Water Prize (*certificate & nomination to National Competition*)
Nicole Hendrix – Northeast Vernon County

U.S. Air Force (*Each: certificate, medallion, planner, pocket thesaurus, pen/pencil set*)
Senior High: Logan Skelley – Joplin High School
Nicholas Brinley – Marionville High School
Junior High: Rebeca Scheafer – Marionville
Sara Smith – East Newton

U.S. Metric Association (*certificate*)
Dalene Cook – Seneca High School

U.S. Navy (*certificate + \$50 prize for Sr. High winners*)
Senior High: Logan Skelley – Joplin High School
Nicole Hendrix – NE Vernon County

Junior High: Elizabeth Jones – Sarcoxie Jr. High
Courtney Scott – Seneca Middle School

U.S. Public Health Service
Ashley Enyart - Seneca High School

Yale Science & Engineering Awards (*medallion and certificate-11th grader*)
Nicole Robinson – Seneca High School



SENIOR PRIZE WINNERS

BEHAVIORAL & SOCIAL SCIENCES



<u>PLACE</u>	<u>STUDENT NAME</u>	<u>SCHOOL</u>	<u>SPONSOR</u>
1	Chapman, Seagan "Does Depression Affect Attendance?"	Sarcoxie	Jane Kutz
2	Benton, Ashley "What Type Of Fingerprints Is The Most Common?"	Marionville	Rebecca Cavener
3	Spangler, Sara "How Easy Is It To Distort Or Create False Memories?"	East Newton	Greg Brockman

BOTANY & ZOOLOGY

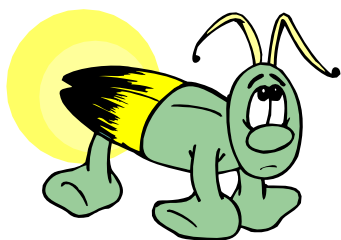
GRAND PRIZE



<u>PLACE</u>	<u>STUDENT NAME</u>	<u>SCHOOL</u>	<u>SPONSOR</u>
1	Baker, Jessica "Regeneration Anomalies and Behavioral Changes in <i>Planaria</i> Subjected To Various Phthalate Esters"	Seneca	Shannon Sample
2	Cook, Dalene "Native American Medicinal Teas: Extracting, Isolating and Determining Antibacterial Properties of Five Indigenous Plants"	Seneca	Shannon Sample
3	Witt, Katie "Hot or Rot?"	Marionville	Rebecca Cavener

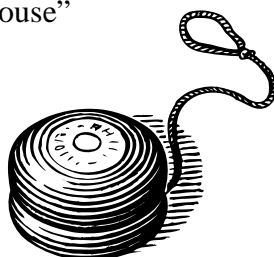
CHEMISTRY, BIOCHEMISTRY & ENVIRONMENTAL

<u>PLACE</u>	<u>STUDENT NAME</u>	<u>SCHOOL</u>	<u>SPONSOR</u>
1	Robinson, Nicole "Determining The Enzymatic Activity Of Tyrosinase Isolated From Different Parts Of A Mushroom."	Seneca	Shannon Sample
2	Daus, Arthur "Measuring Bioluminescent Wavelengths and Intensities of Firefly Lanterns to Increase Classification Efficiency."	Thomas Jefferson	Hailey Vincent
3	Hendrix, Nicole "The Wetland Sponge?"	NE Vernon County	Susan Hendrix



**ENGINEERING, MATHEMATICS &
PHYSICS**

	<u>PLACE</u>	<u>STUDENT NAME</u>	<u>SCHOOL</u>	<u>SPONSOR</u>
GRAND PRIZE	1	Skelley, Logan “An Analysis of the Effect of Different Building Configurations on Wind Turbine Efficiency.”	Joplin	Cathy Reed
	2	Granger, Drew “Engineering a Record Breaking Yoyo.”	Seneca	Shannon Sample
	3	Brinley, Nicholas “The New Mouse”	Marionville	Rebecca Cavener



**MEDICINE/HEALTH &
MICROBIOLOGY**

	<u>PLACE</u>	<u>STUDENT NAME</u>	<u>SCHOOL</u>	<u>SPONSOR</u>
FIRST ALTERNATE	1	Crousen, Tara “The Effectiveness of Various Teas in Reversing Antibiotic Resistance.”	Seneca	Shannon Sample
SECOND ALTERNATE	2	Enyart, Ashley “Determination of Metabolic Rates in Mice after Supplementation with DHEA and Melatonin over a Seven Week Period”	Seneca	Shannon Sample
	3	Daus, Haley “Bacterial Contamination in Packaged Greens”	Thomas Jefferson	Hailey Vincent





Junior Division Winners

Grand Prize Winners: Shelby Baker
(\$75 each) Julia Lewis

Aurora Jr. High
Memorial Middle School

First Place each category - \$25 Each

Behavior/Social Sci.	Ashley Larson	Seneca Mid. School
Biochem/Environmental	David Robinson	Seneca Jr. High
Botany	Colin Hughes Michael Reinsvold	Memorial Mid. Sch. Thomas Jefferson
Chemistry	Shelby Baker Barbara Sandlin	Aurora Jr. High North Middle School
Earth Science	Kotye Mallatt	Riverton
Engineering/Mathematics	Cody Taylor	Noel
Medicine/Microbiology	Emma Calliccoat	Seneca
Physics	Julia Lewis Michelle Barchak	Memorial Mid. School Memorial Mid. School
Zoology	Garrett Black	Aurora Jr. High



JUNIOR PRIZE WINNERS

BEHAVIORAL & SOCIAL

SCIENCES PLACE STUDENT NAME SCHOOL SPONSOR



1	Larson, Ashley "Attraction = Achievement =A+"	Seneca Middle	Michelle Sitton
2	Bond, Charlene "Do Boys And Girls Have The Same Type Of Stress?"	Sarcoxie	Betty Agan
3	Williams, Lexus "Sense of Smell"	Riverton	Claudia Cox

BIOCHEMISTRY &

ENVIRONMENTAL PLACE STUDENT NAME SCHOOL SPONSOR




1	Robinson, David "Can Been Powder Be Used As A Pesticide?"	Sarcoxie	Betty Agan
2	Campbell, Ashley "Peanut Power"	Riverton	Claudia Cox
3	Crockett, Rachell "Taming the Tummy Tornado"	Aurora	Karla Shiveley

BOTANY


PLACE STUDENT NAME SCHOOL SPONSOR



1	Hughes, Colin "Plant Growth Is Water Necessary?"	Memorial Middle	Ivan Obert
1	Reinsvold, Michael "The Effect of Temperature on Hydroponically Grown Plants"	Thomas Jefferson	Laura McDonald
2	Kimzey, Amanda "Photosynthesis"	Bronaugh	Susan Rickett
2	White, Reed "Do Trees Affect Plant Growth?"	Sarcoxie	Betty Agan
3	Keeling, Morgan "A Little Bit Country or A Little Bit Rock'n Roll?"	Seneca Middle	Kari Binney
3	Weatherman, Sarah "Show Your Colors"	Aurora	Karla Shiveley

CHEMISTRY	PLACE	STUDENT NAME	SCHOOL	SPONSOR
	GRAND PRIZE			
	1	Baker, Shelby "Juicy Juice"	Aurora	Karla Shiveley
	1	Sandlin, Barbara "Can You Re-Create a Medieval Paint Pallete Using Modern Ingredients?"	North Middle	Teri Byrd
	2	Hill, Blake "Citric Batteries"	Granby	Tracy Douglas
	2	Linnes, Derek "Electrical Vegetable"	Memorial Middle	Ivan Obert
	3	Asbill, Shelby "Catalysts"	Seneca Middle	Kari Binney
	3	Guesby, Cody "Solar Distillation"	Seneca	Kari Binney
3	Wallace, Taysom "How Low Can You Go?"	North Middle	Teri Byrd	

EARTH SCIENCE	PLACE	STUDENT NAME	SCHOOL	SPONSOR
	1	Mallatt, Kotye "Salt Water Affecting the Size of Hurricanes"	Riverton	Claudia Cox
	2	Laughlin, Rowdy "Absorb Baby, Absorb"	Webb City	Elaine Beaver
	3	Pickering, Emali "How Deep"	Seneca Middle	Kari Binney

ENGINEERING & MATHEMATICS	PLACE	STUDENT NAME	SCHOOL	SPONSOR
	1	Taylor, Cody "Using Your Noodle"	Noel	Sheryl Madden
	2	Mettlach, Josh "Does The Shape Of A Baseball Field Affect Batting Statistics?"	Sarcoxie	Betty Agan
	3	Gregory, Lindsey "Blowing Steam"	Granby	Verla Spears

MEDICINE/HEALTH &

MICROBIOLOGY PLACE STUDENT NAME SCHOOL SPONSOR

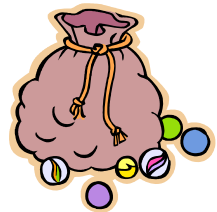


1	Callicoat, Emma "Water Fleas with Bad Habits"	Seneca Middle	Kari Binney
2	Simpson, Jenny "Sweet Safe Dreams"	Thomas Jefferson	Laura McDonald
3	Allen, Piper "What Are We Actually Drinking?"	Seneca	Michelle Sitton
3	Parmley, Taylor "Who Is Osteoporosis More Common In"	Seneca Middle	Kari Binney

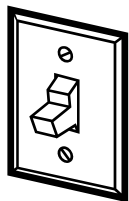
PHYSICS

PLACE STUDENT NAME SCHOOL SPONSOR

GRAND PRIZE



1	Lewis, Julia "Insulation: Which Form Keeps Us Warm?"	Memorial Middle	Ivan Obert
1	Barchak, Michelle "Lost Any Marbles?"	Memorial Middle	Ivan Obert
2	Herr, Jeffrey "The Power Within"	Memorial Middle	Ivan Obert
2	Kessler, Sarah "Watt's Light?"	Memorial Middle	Ivan Obert



2	Scott, Courtney "A Light through the Fog"	Seneca Middle	Michelle Sitton
3	Yust, Ashton "Lights off"	North Middle	Teri Byrd
3	Robinson, Miles "One Pulley or Two?"	Riverton	Claudia Cox
3	Weston, Emily "Electricity"	Granby	Verla Spears

ZOOLOGY

PLACE STUDENT NAME SCHOOL SPONSOR

1	Black, Garrett "Bottled Eisenia Foetida"	Aurora	Karla Shiveley
2	Bloss, Nate "Do Different Soils Have Different Micro invertebrates"	Sarcoxie	Betty Agan
3	Claxton, Micaelyn "Roly Poly Paradise"	Seneca	Kari Binney

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# PLACEMENT OF PAST GRAND PRIZE WINNERS of MISSOURI SOUTHERN REGIONAL FAIR at ISEF

| <u>YEAR</u> | <u>NAME/SCHOOL</u>                                                                     | <u>PLACEMENT AT ISEF</u>                                                  |
|-------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 1990        | Caitlin Lenon – Nevada High School<br>Vijay Sree – Nevada High School                  | Participant<br>1 <sup>st</sup> – Medicine & Health                        |
| 1991        | Heather Crain – Carl Junction High School<br>Matt Triplett – Carl Junction High School | Participant<br>Participant                                                |
| 1992        | Amy Lawson – Joplin High School<br>Jason Talley – Joplin High School                   | 3 <sup>rd</sup> – Microbiology<br>4 <sup>th</sup> – Environmental Science |
| 1993        | Amy Lawson – Joplin High School<br>Janelle Meyer – Joplin High School                  | 3 <sup>rd</sup> – Microbiology<br>Participant                             |
| 1994        | Amy Lawson – Joplin High School<br>Katherine Sheridan – Carl Junction High School      | 3 <sup>rd</sup> – Microbiology<br>Participant                             |
| 1995        | Aaryn McFarland – Neosho High School<br>Deepa Mangalat – Joplin High School            | Participant<br>4 <sup>th</sup> – Chemistry                                |
| 1996        | Beth Lawson – Joplin High School<br>Deepa Mangalat – Joplin High School                | 4 <sup>th</sup> – Microbiology<br>4 <sup>th</sup> – Chemistry             |
| 1997        | Beth Lawson – Joplin High School<br>Deepa Mangalat – Joplin High School                | 2 <sup>nd</sup> – Microbiology<br>Participant                             |
| 1998        | Danielle Miller – Neosho High School<br>Michael Sweeney – Carl Junction High School    | Participant<br>Participant                                                |
| 1999        | Mason Cummins – Sarcoxie High School<br>Nathan Dawson – Sarcoxie High School           | 3 <sup>rd</sup> – Behavioral & Social Science<br>Participant              |
| 2000        | Sarah Chrisman - Sarcoxie High School<br>Terra Higgins - Carl Junction High School     | Participant<br>2 Special Awards                                           |
| 2001        | Lindsey Barnes – Neosho<br>Ryan Thompson – Carl Junction                               | Participant<br>Participant                                                |
| 2002        | Marian Cox – Seneca<br>Caleb Gallemore – Seneca                                        | Participant<br>3 <sup>rd</sup> – Behavioral Science                       |
| 2003        | Marian Cox - Seneca<br>Lindsey Herbert – Seneca                                        | Participant<br>Participant                                                |
| 2004        | Danna McNett – Seneca<br>Matthew Volkman – Seneca                                      | Participant<br>Participant                                                |
| 2005        | Sarah Kropf - Seneca<br>Chelsey Hall - Seneca                                          | Participant<br>3 <sup>rd</sup> - Microbiology                             |

