

UAB-CORD CARSEF Winners

March 5, 2011

CARSEF Top Honors & Intel Winners

Oliva Dure

10th Grade

The Altamont School

Project Title – *Brain Plasticity: The Effect of Age (A Two Year Study)*

Rakesh Goli

11th Grade

The Altamont School

Project Title – *Can a Bacterial Pigment Kill Flesh Eating Bacteria?*

Ellen Price

12th Grade

Jefferson County International Baccalaureate

Project Title – *Hidden Sounds: The Effect of Cellular Phone Transmission on Human Voice Harmonic Distribution*

Lakshmi Raju

10th Grade

Alabama School of Fine Arts

Project Title – *Development of an Inexpensive Spectrophotometer and a Matlab Spectral Analysis Program*

CARSEF Category Winners

Senior Division

Behavioral & Social Science

1st Place

Alexis Vance

11th Grade

Alabama School of Fine Arts

Project Title – *Inside the Mind's Rainbow: A Probability Matrix of Sound and Color Synesthesia*

2nd Place

Lauren Rabren

12th Grade

Wetumpka High School

Project Title – *Power in the Palm of Your Hand*

3rd Place

Addison Pollard & Leah Swinford

11th Grade

The Altamont School

Project Title – *Is Perceived Stress During Exams Reflected in Salivary Cortisol Levels?*

Honorable Mention

Amber Norrell

12th Grade

Wetumpka High School

Project Title – *Did You See That?*

Honorable Mention

Trey Beck

10th Grade

Glenwood School

Project Title – *The Effect of Gender on Peer Pressure*

Honorable Mention

Ruthie Gresham-Jacobs

10th Grade

The Altamont School

Project Title – *Effectiveness of Bullying Prevention Methods on Teenagers*

Biology

1st Place

Rakesh Goli
11th Grade

The Altamont School

Project Title – *Can a Bacterial Pigment Kill Flesh Eating Bacteria?*

2nd Place

Gabriel Spieler
12th Grade

Alabama School of fine Arts

Project Title – *The Invasion of Chytridiomycosis into Amphibian Populations of North-Central Alabama*

3rd Place

William Haselden
12th Grade

Mountain Brook High School

Project Title – *Gene Expression Profile during the Development of Epilepsy*

Honorable Mention

Noon Eltoun

Islamic Academy of Alabama

Project Title – *Which Fraction of the Black Seed Kills Fungus?*

Honorable Mention

Mary Wills
12th Grade

Jefferson County International Baccalaureate

Project Title – *The Effects of Antioxidants on the Lactobacillus Casei*

Honorable Mention

Hunter Hollis
10th Grade

Jefferson County International Baccalaureate

Project Title – *The Effects of Household Ant Repellents*

Chemistry

1st Place

Peter Johnson
12th Grade

The Altamont School

Project Title – *An Environmentally Friendly Solution for Wastewater Purification and Chemical Disposal:
A UV-Visible Spectrophotometric Study of a Copper Modified Fenton Process*

2nd Place

Arina Ghosh

12th Grade

Alabama School of Fine Arts

Project Title – *The Effect of Heavy Metals on Porphyrin Ring compounds Part 3: Leached Mercury into the Base of the Food Chain near Coal Combustion Waste Disposal Sites*

3rd Place

Malika Shettar

11th Grade

Indian Springs School

Project Title – *DNA Binding and Cleaving of 1.8 Naphthalimide Nitrogen Onjum Salts (Towards the Development of a Novel Photodynamic Therapy Reagents for Cancer*

Honorable Mention

Laure Bender

9th Grade

The Altamont School

Project Title – *The Effect of Catechin on Daphnia Heart Rate*

Honorable Mention

Anjali Wagle

12th Grade

Alabama School of Fine Arts

Project Title – *Plop Plop Fizz Fizz – The Effect of time on Alka – Seltzer Tablets*

Honorable Mention

Marie Reuter

12th Grade

Wetumpka High School

Project Title – *A Pharmacological Study on Heart Health Vitamins and Daphnia Magna*

Energy & Transportation

1st Place

Ben McCormick

12th Grade

Jefferson County International Bacculaureate

Project Title – *The Burning Proficiency of Cooking Oils for Alternative Fuel Use*

2nd Place

Douglas Coughlan

10th Grade

Jefferson County International Bacculaureate

Project Title – *DAS ECO: Research in Wind Powered Vehicles*

3rd Place

Makinsey Parker & Ashley Yates

12th Grade

Wetumpka High School

Project Title – *Veggie Cars: Transportation of the Future?*

Honorable Mention

Anshuman Bansal

11th Grade

Alabama School of Fine Arts

Project title – *Carbon Nanotube Based Heterostructure Supercapacitors*

Engineering

1st Place

Cory Raszeja

12th Grade

Alabama School of Fine Arts

Project title – *Design and Development of a Structure-based Eco-sensitive Hydroelectric Generator*

2nd Place

Stirling Buenger & Josiah Hall

12th Grade

Elmore County High School

Project Title – *Metronome Methods*

3rd Place

Kaitlin Moye

10th Grade

Glenwood School

Project Title – *For Quake's Sake*

Honorable Mention

Andrew Sumner

11th Grade

Cornerstone Classical Christian Academy

Project Title – *To Dim or Not to Dim: Do Dimmer Switches Really Save You Money*

Honorable Mention

Dallas Gentry

10th Grade

Jefferson County International Baccalaureate

Project Title – *The Effect of Tempering Temperature on Hardness of 0 – 1 Tool Steel*

Honorable Mention

Nathan Mims

11th Grade

Cornerstone Classical Christian Academy

Project Title – *The Calorimeter Project*

Environmental & Earth Science
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1st Place

Zack Weston

10th Grade

Jefferson County International Baccalaureate

Project Title – *Water Logged*

2nd Place

Austin Hardman

11th Grade

Jefferson County International Baccalaureate

Project Title – *An Alternative Use for Fall Leaves*

3rd Place

Ellis Powell

10th Grade

The Altamont School

Project Title – *Comprehensive Water Testing of a Major Tributary of the Cahaba River*

Honorable Mention

David Windham

12th Grade

Wetumpka High School

Project Title – *Fertilizer: How Much Does it Take?*

Honorable Mention

Wade Mattox & Aaron Simonton

10th Grade

Wetumpka High School

Project Title – *Dirt and Water = Clean*

Honorable Mention

Susanna Stewart

12th Grade

Cornerstone Classical Christian Academy

Project Title – *Saving Flowers*

Mathematics & Computer Science

1st Place

Caitlin Marsh

12th Grade

Alabama School of Fine Arts

Project Title – *The Development and Intergration of Voice Controlled Software with AgentSheets for Children with Motor Disabilities*

2nd Place

Candice Lacey

12th Grade

Wetumpka High School

Project Title – *Music and Math*

3rd Place

James Yarbrough

12th Grade

Alabama School of Fine Arts

Project Title – *A Mobile Computing Crowd Sourcing Application for Reporting Ecological Disasters*

Honorable Mention

Judi Hakim

12th Grade

Alabama School of Fine Arts

Project Title – *A Program to Aid Students Learning in Spanish Through Code-switched Text*

Honorable Mention

Tyler Lynn

12th Grade

Wetumpka High School

Project Title – *The Use of Soccer Statistics as a Predictor of World Cup Success*

Honorable Mention

Daniel Cape

11th Grade

Wetumpka High School

Project Title – *Watch Your Speed*

Medicine & Health Science

1st Place

Oliva Dure
10th Grade
The Altamont School
Project Title – *Brain Plasticity: The Effect of Age (A Two Year Study)*

2nd Place

Roxanne Lockhart
12th Grade
Alabama School of Fine Arts
Project Title – *Effect of Genestein, a Phytoestrogen, on Functional Recovery After Spinal Cord Injury in Males Rats*

3rd Place

Rachel Gamlin
11th Grade
Jefferson County International Bacculaureate
Project Title – *Detecting the Presence and Amount of Glycine max Allergen in Different Brands of Baby Food*

Honorable Mention

Samantha Richardson
10th Grade
Jefferson County International Bacculaureate
Project Title – *Energy Drinks: A Can of Bull*

Honorable Mention

Jessica Stone
12th Grade
Wetumpka High School
Project Title – *Mold Patrol*

Honorable Mention

Raven Hatcher
10th Grade
Jefferson County International Bacculaureate
Project Title – *Sweat Poison*

Physical Science

1st Place

Lakshmi Raju
10th Grade
Alabama School of Fine Arts
Project Title – *Development of an Inexpensive Spectrophotometer and a Matlab Spectral Analysis Program*

2nd Place

Ellen Price

12th Grade

Is County International Baccalaureate

Project Title – *Hidden Sounds: The effect of Cellular Phone Transmission on Human Voice Harmonic Distribution*

3rd Place

Sam Street & Collis Barefield

11th Grade

Wetumpka High School

Project Title – *Good Vibrations*

Honorable Mention

Ethan Fisher

11th Grade

Pell City High School

Project Title – *How Different Frequencies Affect a Non-Newtonian Solution*

Honorable Mention

Jorge Solis

11th Grade

Pell City High School

Project Title – *Sand Traveling Through Light*

Honorable Mention

Rodney Riggs & Hunter Kirby

12th Grade

Wetumpka High School

Project Title – *The Physics and Mechanics of Taekwondo*

CARSEF Category Winners

Junior Division

Behavioral & Social Sciences

1st Place

Bushra Gamil

7th Grade

Islamic Academy of Alabama

Project Title – *How Disgusting is That?!*

2nd Place

Josie Niedermeier

7th Grade

The Altamont School

Project Title – *Eye Witness Testimony: Guilty or Not Guilty*

3rd Place

Hanna Szarenski

8th Grade

Glenwood School

Project Title – *Mozart Makes Smart Rats*

Honorable Mention

Marwa Mekdad

8th Grade

Islamic Academy of Alabama

Project Title – *Subliminal Messaging and Gender*

Honorable Mention

Molly Kauper & Katie O'Neal

7th Grade

The Altamont School

Project Title – *Age Affecting Memory*

Honorable Mention

Adam Gaylor

8th Grade

Glenwood School

Project Title – *Circadian Rhythms*

Biology

1st Place

Rawdah Elbahrawi
7th Grade
Islamic Academy of Alabama
Project Title – *What do you Taste?*

2nd Place

Tyler Findlater
Glenwood School
Project Title – The War on Germs

3rd Place

Danah Mekdad
8th Grade
Islamic Academy of Alabama
Project Title – *Bacteria Be Gone!!*

Honorable Mention

Lia Barnes
7th Grade
W.J. Christian
Project Title – *Music's Affect on Heart Rate*

Honorable Mention

Kaylee Gilchrist & Allie Picou
7th Grade
Our Lady of the Valley
Project Title – *Veggie Tales*

Honorable Mention

Nicole Beasley
8th Grade
Glenwood School
Project Title – *Which is Cleaner?*

Chemistry

1st Place

Ali El-Husari
8th Grade
Islamic Academy of Alabama
Project Title – *Acids vs Alkaline*

2nd Place

Aliyah Curry
8th Grade
W.J. Christian
Project Title – *Right Thru Me*

3rd Place

Hanna Becerra
6th Grade
St. Francis Xavier School
Project Title – *2% Fat in Your Milk*

Honorable Mention

Sydney Calhoun
6th Grade
The Altamont School
Project Title – *The Burn Rate of Wood*

Honorable Mention

Allison Wrenn
7th Grade
W.J. Christian
Project Title – *Burn Baby Burn*

Honorable Mention

Jahmilah Brown
7th Grade
Phillips Academy
Project Title – *Yuck What Happen?*

Energy and Transportation

1st Place

Will Pannell
8th Grade
The Altamont School
Project Title – *Assessing the Effects on the Collection of Solar Energy*

2nd Place

Nicholas Dietschweiler
8th Grade
Thompson Middle School
Project Title – *Bubble, Bubble... This Could Get Me in Big Trouble: H2O Electrolysis*

3rd Place

Ariel Herren
6th Grade
Williams Intermediate School
Project Title – *Is “Bigger” Better?*

Engineering

1st Place

Will Damsgard
7th Grade
Thompson Middle School
Project Title – *Distracted Driving: The Affects of Distractions on Video Game Drivers*

2nd Place

Annie Boyle
8th Grade
O.D. Duran Junior High School
Project Title – *Which Framework Design is More Efficent?*

3rd Place

David Whaley
7th Grade
St. Francis Xavier School
Project Title – *Cracking Domes*

Honorable Mention

Samantha Sinak
6th Grade
St. Francis Xavier School
Project Title – *Thermal Properties of Containers*

Honorable Mention

Breanna McPherson
8th Grade
St. Francis Xavier School
Project Title – *Bridges: Weights and Deflection*

Honorable Mention

Rachel Hixson
8th Grade
Thompson Middle School
Project Title – *A Hotter Cup of Coffee*

Environmental and Earth Sciences

1st Place

Rowan Elqishawi

7th grade

Islamic Academy of Alabama

Project Title – *Alabama Shores... Are you Cured*

2nd Place

Ayah Eltoum

8th Grade

Islamic Academy of Alabama

Project Title – *Herbicidal Mechanism of Tamarind*

3rd Place

Kaitlin Beyler & Ryan Nichols

8th Grade

Thompson Middle School

Project Title – *Quality H2O... Yes or No*

Honorable Mention

Andrew Ramey

7th Grade

St. Francis Xavier School

Project Title – *What is the Effectiveness of Chemical vs. Biological Response Techniques on Oil Spills*

Honorable Mention

Elexia Coleman

8th Grade

W.J. Christian

Project Title – *Lurking Lead*

Honorable Mention

Joanna Sumner

6th Grade

Cornerstone Classical Christian Academy

Project Title – *Screening the Sun... Is a Higher SPF More Effective*

Mathematics & Computer Science

1st Place

Will Thomason

6th Grade

Graham Elementary School

Project Title – *A Game Theory Survey of Monopoly*

2nd Place

Carson Bruce
8th Grade

O.D. Duran Junior High School

Project Title – *How Much Compression is too Much?*

3rd Place

Ronni Gagliano
8th Grade

O.D. Duran Junior High School

Project Title – *Does Color Effect Choice – Mathematical Analysis*

Honorable Mention

Destiny Kelley
5th Grade

Williams Intermediate School

Project Title – *Study About M & M's How Many Different Colors are in 3 Packs*

Medicine & Health Sciences

1st Place

Ryan Harmon
7th Grade

Columbiana Middle School

Project Title – *Bacteria Banishers*

2nd Place

Maclaine Fields
7th Grade

The Altamont School

Project Title – *Helmet Safety*

3rd Place

Ruaa Aishah
8th Grade

Islamic Academy of Alabama

Project Title – *Please Don't Cry!*

Honorable Mention

Mihir Limdi
7th Grade

The Altamont School

Project Title – *Effects of Popular Drinks on Teeth*

Honorable Mention

Eric Freeman
5th Grade

Williams Intermediate School

Project Title – *Do Video Games Have the Power to Relieve Pain?*

Honorable Mention

Sarah Powell
7th Grade

Bessemer Academy

Project Title – *Does Music Affect a Runners Speed?*

Physical Sciences

1st Place

Andrew Robinson
6th Grade

W.J. Christian

Project Title – *Torque AKA Spin*

2nd Place

Kaylea Lott
8th Grade

O.D. Duran Junior High School

Project Title – *Avoid the Shock!*

3rd Place

Cailan Bevel
7th Grade

Thompson Middle School

Project Title – *Blowing Bottle Tops: How to Make Music with Water Bottles*

Honorable Mention

Maggie Reynolds
5th Grade

Williams Intermediate School

Project Title – *Can Supplemental Iron be Removed From Iron-Fortified Cereal for Comparison?*

Honorable Mention

Alexis Stokes
7th Grade

W.J. Christian

Project Title – *It's Getting Hot in Here*

Honorable Mention

Paul Boyle III

5th Grade

Williams Intermediate School

Project Title – *Buoyancy “Archimedes’ Principle” Why do Steel Ships Float When a Steel Ball Cannot?*