

**2008 UAB-CORD Central Alabama
Regional Science & Engineering Fair
Intel Winners**

(These winners will be able to compete in the Intel International Science & Engineering Fair in Atlanta, Georgia on May 11-17, 2008)

William Whitney
11th Grade

Mountain Brook High School

Project Title: WifiCam: A Scaleable Visualization of Wireless Network Signals

Mason McFarland
10th Grade

Jefferson County International Baccalaureate School

Project Title: The Allelopathic Phenomenon of Sweet Potatoes

Kathryn Lecroy
12th Grade

Jefferson County International Baccalaureate School

Project Title: The Kudzu Question: A Useful, Renewable Resource?

Sarah Clayton
11th Grade

Jefferson County International Baccalaureate School

Project Title: The Impact of Musical Literacy on Linguistic Acuity

**2008 UAB-CORD Central Alabama Regional Science & Engineering Fair
Senior Division Category Winners**

Biology

1st Place

Mason McFarland
Jefferson County IBS
*Title – The Allelopathic Phenomenon
of Sweet Potatoes*

2nd Place

Lydia McCormick
Jefferson County IBS
*Title – The Effect of Honeybee
Pathogens on H₂O₂ Content and
Glucose Oxidase Activity in Honey*

3rd Place

Alexandra Hunsucker
Jefferson County IBS
Title – Stonetroopers

Chemistry

1st Place

Jonathan Thielman
Jefferson County IBS
*Title – Does Tyrosinase Oxidize
Poison Ivy?*

2nd Place

Judi Hakim &
Nursen Ogutveren
Alabama School of Fine Arts
Title – To Be or Not to Be Digested

3rd Place

Wayne Magee
Wetumpka High School
Title – Toilet Bowl Combustability

**Engineering, Mathematics, and
Computer Sciences**

1st Place

William Whitney
Mountain Brook High School
*Title – WifiCam: A Scaleable
Visualization of Wireless Network
Signals*

2nd Place

Thor Christianson
The Altamont School
*Title – Glass Water: Homemade
Laminar Flow Water Nozzle*

3rd Place

Christine McBride
Jefferson County IBS
Title – Braking Wind

Environmental and Earth Sciences

1st Place

Kathryn Lecroy
Jefferson County IBS
*Title – The Kudzu Question: A
Useful, Renewable Resource?*

2nd Place

Samuel Carter
Jefferson County IBS
*Title – Which Plants Best Reduce
Global Warming?*

3rd Place

Winston Joe &
Dixon Johns
The Altamont School
Title – Project Eco-Stream

Medicine and Health Sciences

1st Place

Anjali Wagle &
Arina Ghosh
Alabama School of Fine Arts
*Title – The Effectiveness of Hand
Cleansers Against Nosocomial
Infections*

2nd Place

Clare Gamlin
Jefferson County IBS
*Title – The Effects of PIP2 on
Intracellular pH Regulation*

3rd Place

Bria Harper
Jefferson County IBS
*Title – Too Many Drinks A Day Will
Rot Your Teeth Away*

**2008 UAB-CORD Central Alabama Regional Science & Engineering Fair
Senior Division Category Winners**

3rd Place

Physical Sciences

1st Place

Ellen Price
Jefferson County IBS
Title – Hidden Sounds

2nd Place

Joshua Powell
Prattville Christian Academy
Title – Gone---With the Wind

3rd Place

James Lecroy
Jefferson County IBS
*Title – The Effect of Washing on
Specific Flame Retardants in
Synthetic Fibers*

William Kirkland
Wetumpka High School
*Title – A Detailed Study of
Particulate Aerodynamics Utilizing
Rocketry and Macro Models*

Behavioral and Social Sciences

1st Place

Sarah Clayton
Jefferson County IBS
*Title – The Impact of Musical
Literacy on Linguistic Acuity*

2nd Place

Vinetra King
Ramsay High School
*Title – Binge-Eating Rats Cross
Aversive Footshock for Junk Food*

3rd Place

Julie Borden
Jefferson County IBS
*Title – Synesthesia in Convergence
of the Senses*

Energy and Transportation

1st Place

Clai Owens
Jefferson County IBS
Title – A Vehicle Betrayed

2nd Place

Shawn Tuteja
The Altamont School
*Title – Maximizing Ethanol's Heat
Production*

**2008 UAB-CORD Central Alabama Regional Science & Engineering Fair
Junior Division Category Winners**

Biology

1st Place

Rakesh Goli
The Altamont School
*Title – Temperature Dependent
Sex Determination of the Kemp
Ridley Sea Turtle*

2nd Place

Nada Abdelqader
Islamic Academy of Alabama
*Title – How Well Do
Disinfectants Work?*

3rd Place

Luke Hartman
Advent Episcopal School
*Title – Inheritance of Genetic
Traits in Bakers Yeast*

Chemistry

1st Place

Brian Joseph
The Altamont School
*Title – The Effects of
Temperature on Paint*

2nd Place

Meghan Till
Our Lady of the Valley School
*Title – Ar'ray' of Color:
Analyzing Chromatography*

3rd Place

Avery Payne
Eclectic Middle School
*Title – The Dissolution Time of
Different Forms of Ibuprofen*

**Engineering, Mathematics, and
Computer Sciences**

1st Place

Sebastian Black
Advent Episcopal School
*Title – Anatomy of a Paper
Plane: How Wing Design
Affects Flight Distance and
Duration*

2nd Place

Sebastian Wygoda
Our Lady of the Valley School
Title – Shake, Shake, Shake

3rd Place

Matthew Mims
Wetumpka Junior High School
*Title – Which Cantilever Truss
Design Supports the Most
Weight?*

Environmental and Earth Sciences

1st Place

Samih Eloubeidi
Islamic Academy of Alabama
*Title – Effects of Pollutants on
Soil Properties*

2nd Place

Madison Bealle
Advent Episcopal School
Title – We All Need to Breathe

3rd Place

Thomas Johnston &
Dylan Teague
Mountain Brook Jr. High School
*Title – Water, What's In It? A
Study to Discover if
Urbanization Affects Water
Pollution*

Medicine and Health Sciences

1st Place

Shilan Hameed
Islamic Academy of Alabama
Title – Histology of Hotdogs

2nd Place

Sarah Bender
Advent Episcopal School
Title – McMush

**2008 UAB-CORD Central Alabama Regional Science & Engineering Fair
Junior Division Category Winners**

3rd Place

Meghan Marks
Advent Episcopal School
*Title – Do Kids Know the
Harmful Effects of Drinking
Soda?*

Physical Sciences

1st Place

Steven Cochrun
Advent Episcopal School
*Title – “Cut that Music Down or
Else! Don’t Hate... Attenuate”
Which Materials Reduce Sound
Transmission.*

2nd Place

Justin Gifford
Prattville Christian Academy
Title – Pedal Power

3rd Place

Sean Johnson
The Altamont School
Title – Shock Factor

Behavioral and Social Sciences

1st Place

Evelyn Baxley
Advent Episcopal School
*Title – Bigger Bowl, Bigger
Belly*

2nd Place

Daniel Sessions
St. Rose Academy
Title – Do You See What I See?

3rd Place

Alistair Delchamps
Advent Episcopal School
Title – Wii Play Do You?

Energy and Transportation

1st Place

Flavia Pajaro-van de
Stadt
The Altamont School
*Title – Comparing Active and
Passive Solar Water Heaters*

2nd Place

George French, III
The Altamont School
*Title – Lights Out: Which Brand
will Last the Longest?*