

2009 UAB-CORD Central Alabama Regional Science & Engineering Fair

Intel International Science & Engineering Fair Winners

(These winners will be able to compete in the Intel International Science & Engineering Fair in Reno, Nevada on May 10-15, 2009)

Rakesh Goli
9th Grade

The Altamont School

Project Title: Can A Bacterial Pigment Kill Cancer Cells?

James Lecroy
11th Grade

Jefferson County International Baccalaureate School

Project Title: Kudzu Calorimetry

Lydia McCormick
11th Grade

Jefferson County International Baccalaureate School

Project Title: The Effect of Honey Hydrogen Peroxide Concentration on Small Hive Beetle (Aethina tumida) Survival

Mason McFarland
11th Grade

Jefferson County International Baccalaureate School

Project Title: The Evidence of and Potential Roles of Allelopathic Agents Present in Sweet Potatoes

**2009 UAB-CORD Central Alabama Regional Science & Engineering Fair
Senior Division Category Winners**

Behavioral and Social Sciences

1st Place

Sara Feldman
The Altamont School
Title – Internet Access: Racist?

2nd Place

Anne Wheless
The Altamont School
*Title – The Major Importance of
Immediate Testing in the
Learning Process*

3rd Place

Alexis Vance
Alabama School of Fine Arts
*Title – Teen Driving:
Conversations Slow You Down?*

Biology

1st Place

Lydia McCormick
Jefferson County IB School
*Title – The Effect of Honey
Hydrogen Peroxide
Concentration on Small Hive
Beetle (*Aethina tumida*) Survival*

2nd Place

Rakesh Goli
The Altamont School
*Title – Can a Bacterial Pigment
Kill Cancer Cells?*

3rd Place

Winston Joe
The Altamont School
*Title – Snaring the Invaders:
How PMNs Set the Trap
Pneumococci*

Chemistry

1st Place

Mary Esther Machen
Shades Mt. Independent
Christian School
Title – Can Hair Stand the Heat

2nd Place

Peter Johnson
The Altamont School
Title – Vaska's Complex

3rd Place

Arina Ghosh
AL School of Fine Arts
*Title – The Effect of Heavy
Metals on Porphyrin Ring
Compounds*

Energy and Transportation

1st Place

Pranav Krishnan
The Altamont School
Title – Go Green!

2nd Place

Ellen Price
Jefferson County IB School
*Title – The Geothermal
Thermocouple: Applications of
Thermocouples in Renewable
Energy Technologies*

3rd Place

Shawn Tuteja
The Altamont School
*Title – Maximizing the
Efficiency of a Dye-Sensitized
Solar Cells*

**Engineering, Mathematics, and
Computer Sciences**

1st Place

Alex Chapman
The Altamont School
*Title – Construction of a
Downdrift Wood Gasifier*

2nd Place

Christine McBride
Jefferson County IB School
*Title – The Bionic Ear
(Cochlear Implants)*

**2009 UAB-CORD Central Alabama Regional Science & Engineering Fair
Senior Division Category Winners**

3rd Place

Brett Kirkland
Jefferson County IB School
*Title – The Withdrawal
Strengths of Screws in a
Polymer*

3rd Place

Giacomo Barbone
The Altamont School
*Title – Orienteering: Finding
the Winning Path*

Environmental and Earth Sciences

1st Place

Mason McFarland
Jefferson County IB School
*Title – The Evidence of and
Potential Roles of Allelopathic
Agents Present in Sweet
Potatoes*

2nd Place

Emily Duke
Jefferson County IB School
*Title – Germicidal Effects of
Ultraviolet C Light on Water*

3rd Place

Emily Kirkpatrick
Jefferson County IB School
*Title – The Effects of Sidestream
Cigarette Smoke on Broccoli
Plants*

Medicine and Health Sciences

1st Place

Joshua Ng
AL School of Fine Arts
*Title – The Effect of Antibiotic
Ointments on E. coli Bacteria
Growth*

2nd Place

Anya Glandon
Mountain Brook High School
*Title – Mapping the Cocksackie
& Adenovirus Receptor in the
Mouse Brain for Parkinson*

Physical Sciences

1st Place

James Lecroy
Jefferson County IB School
Title – Kudzu Calorimetry

2nd Place

Wesley Lewis
Jefferson County IB School
*Title – Using Magnetism to Stop
an Elevator in Free Fall*

3rd Place

Erica Scott
Huffman High School
*Title – Color Absorption: Which
Color Absorbs the Most Heat?*

Teams

1st Place

Lindsey Henson &
Zach Dison
Jefferson County IB School
*Title – Adolescent Concepts of
Death*

2nd Place

Julia Murray &
Cece Pless
The Altamont School
Title – A Forensic Study of DNA

3rd Place

Robert Smyly &
Oliver White
Mountain Brook High School
*Title – Virtual Navigation of
Multimedia Maps*

**2009 UAB-CORD Central Alabama Regional Science & Engineering Fair
Junior Division Category Winners**

Behavioral and Social Sciences

1st Place

Alexis Kentros
The Altamont School
*Title – 2nd to 4th Digit Ratio
Correlation with Mental
Rotation Test*

2nd Place

C.J. Queen
Cathedral Christian School
*Title – Is it Possible to Predict
the Outcome of an Election
Based on the Candidate's
Appearance?*

3rd Place

Ian English
The Altamont School
*Title – How the Color of a Drink
Effects Taste Perception*

Biology

1st Place

Lakshmi Raju
Alabama School of Fine Arts
*Title – Hide & Seek with Fall
Leaves – Leaf Pigment
Chromatography*

2nd Place

Nejah Harhash
Islamic Academy of Alabama
*Title – Diluting Disinfectants
and Bacteria*

3rd Place

Noon Eltoun
Islamic Academy of Alabama
*Title – Searching for Antifungal
and Antibiotics in Plant Extracts*

Chemistry

1st Place

Aliyah Curry
W.J. Christian K-8 School
Title – Pop -N- Fizz

2nd Place

Andrew Padgett
Duran Jr. High School
*Title – The Melting Point Ice
Investigation*

3rd Place

Sydney Rice
Our Lady of the Valley School
Title – Soda Pop

Energy and Transportation

1st Place

Alok Deshane
The Altamont School
*Title – Magnetic Levitation –
Trains & the Future*

2nd Place

Oliver Marston
Advent Episcopal School
*Title – Airborn Angles – How
Does the Angle Attack of a Wing
Effect its Lift?*

3rd Place

McKennon Kessler
The Altamont School
*Title – Does a Hydrogen
Generator Improve Your Gas
Mileage?*

**Engineering, Mathematics, and
Computer Sciences**

1st Place

Sean Galvin
Our Lady of the Valley School
Title – Under Stress

2nd Place

J.T. Tudisco
Our Lady of the Valley School
Title – Shake -n- Break

3rd Place

Noah Cartwright
St. Rose Academy
Title – Weight and See

**2009 UAB-CORD Central Alabama Regional Science & Engineering Fair
Junior Division Category Winners**

Environmental and Earth Sciences

1st Place

Ayah Eltoum
Islamic Academy of Alabama
*Title – Towards Natural
Herbicides*

2nd Place

Samih Eloubeidi
Islamic Academy of Alabama
*Title – Organic or
Conventional: Is There a
Difference?*

3rd Place

Elexia Coleman
W.J. Christian School
*Title – Absorption of Water in
Soil*

Medicine and Health Sciences

1st Place

Olivia Dure
That Altamont School
*Title – Lead Levels in Costume
Jewelry*

2nd Place

Andrew Kanatani
Our Lady of the Valley School
Title – Blinded by the Light

3rd Place

Nada Abdelqader
Islamic Academy of Alabama
*Title – Do Chemicals in a Bottle
Really Work?*

Physical Sciences

1st Place

Bryan Generette
J.H. Phillips Academy
Title – Air Pressure

2nd Place

Andrew Hall
St. Rose Academy
Title – Burn Baby Burn

3rd Place

Addie Harchelrod
Our Lady of the Valley School
Title – Under Pressure!

Teams

1st Place

Suzanne Berry &
Susan Darby
Thompson Middle School
Title – Strongest Bridge

2nd Place

Raven McDonald &
Reginold McDonald
W.J. Christian K-8 School
*Title – How Does Water Grow
Plants?*

3rd Place

Alex Watts,
Chili Mushalansby &
Aric Weidenbach
Thompson Middle School
*Title – AC Generator Time
Lengths*