

**MARCH 4, 2006
AWARDS CEREMONY**

Opening Remarks by Ms. Laura Hibbard, UK recruiting office

**Welcoming by Dr. Phil Kraemer,
Associate Provost Office of Undergraduate Education**

**Susan Lancho
announces support for Science and Engineering fairs in the state of KY.
by American Water, Southeast Region - KY/TN.**

Ms. Laura Hibbard announces awards

**The ASM International Foundation offers an award of a certificate and a medallion for an exhibit related to
materials science.
Edouard Bahous, Sayre School, Flexural Reinforcement Using SRP**

**AWG Award
A certificate award from the Association for Women Geoscientists was presented to a female student for outstanding
work in the geosciences.
Tess Simon, Sayre, The Effect of Chemical and Organic Fertilizers on Grass Seed and Water Runoff**

**RICOH CORP for the sustainable development award. Technical innovations for increasing our ability to grow
environmentally friendly and socially responsible businesses.
Edouard Bahous, Sayre School, Flexural Reinforcement Using SRP**

**BIOLOGY HONOR SOCIETY
Tri-Beta Awards**

**Ryan McGregor, Captial Area Christian Homeschool, The Influence of Chemicals on the Clearance Rates of Asian Clams
(Corbicula fluminea)**

**Sergeant Bradley Updyke from The United States Air Force and Commander Chris Davis from the US NAVY presented
the following awards
honored the following projects with certificates and a briefcase, calculator, and pencil case.**

Sourav Dey, Beaumont Middle School, Don't Destroy Your Brain

Tess Simon, Sayre, The Effect of Chemical and Organic Fertilizers on Grass Seed and Water Runoff

Doug Denniston, Paul Laurence Dunbar, The Effect of Caffeine, Nicotine and Alcohol on Antibiotic Effectiveness

**Stephanie Bachas-Daunert, Paul Laurence Dunbar, Quorum Sensing Biomarker Assay for Non-Invasive Diagnosis of
Chrohn's Disease**

US NAVY the following awards

Junior Division

Sourav Dey, Beaumont Middle School, Don't Destroy Your Brain

Lucia Arthur-Paratley, Bryan Station MS, Does Education, income or unemployment affect recruitment into the military?

Daniel Webb, Winburn Middle School, Don't let the bedbugs bite!

Senior Division

Ann Cooper, Lafayette Senior High, Nerve Terminal Regulation With Muscle Atrophy and Regeneration

**Stephanie Bachas-Daunert, Paul Laurence Dunbar, Quorum Sensing Biomarker Assay for Non-Invasive Diagnosis of
Chrohn's Disease**

US ARMY AWARDS

Polo T-Shirt, Certificate and

Zach Kratzer, Paul Laurence Dunbar, Selective Heating of Nanoscale Gold Particles

Lana Wear, Sayre School, Trash Talk: The Truth about Decomposition

Edouard Bahous, Sayre School, Flexural Reinforcement Using SRP

Ryan Will, Paul Laurence Dunbar, Effects of JH and 20E on Immunity in Moth Larva

John Soleimani-Meigooni, Henry Clay, Determination of Therapeutic Advantage of GRID Radiation Therapy Using Film and Thermoluminescent Dosimetry

Certificates from the ARMY

Elizabeth Riley, Henry Clay High School, Developmental Changes in Children's Story Narration

Sasha Zbrozek, Paul Laurence Dunbar, Surface Tension Driven Interactive Molten Metallic Flow

Katie Gardner, Sayre School, Dissipation of Crude Oil with Different Solutions

David Tao, Paul Laurence Dunbar, Genetic Variation in Neural vs. Hematopoietic Stem Cell Turnover in Inbred Mice

Comeron Ghobadi, Lafayette High School, Molecular Imprinting: Protein Selectivity on Artificial Bone Scaffolds.

US ARMY Bronze medal for Excellence

Ryan Will, Paul Laurence Dunbar, Effects of JH and 20E on Immunity in Moth Larva

Dr. Bruce Walcott, Associate Dean of The College Engineering announces:

The University of Kentucky College of Engineering presents a monetary award for the most outstanding project relating engineering and computer science.

Andrew Watts, Tates Creek Middle, The effect of Bridge Length on Load Capacity

Dr. Bruce Walcott, Associate Dean of The College Engineering announces:

The National Society for Engineers gave 1 certificate, lapel pin and subscription to Engineering Times to an outstanding Engineering project.

Edouard Bahous, Sayre School, Flexural Reinforcement Using SRP

Dr. Bruce Walcott, Associate Dean of The College Engineering announces:

The International Society for Optical Engineering provides on certificate and a chance for a \$100 prize.

Yuji Yokoi, Sayre School, Light Refraction in Salt Water

Dr. Bruce Walcott, Associate Dean of The College Engineering announces: Intel Excellence in Computer Science Award

Intel presents this award certificate and \$200 for the outstanding project in high school.

John Soleimani-Meigooni, Henry Clay, Determination of Therapeutic Advantage of GRID Radiation Therapy Using Film and Thermoluminescent Dosimetry

**Dr. Bruce Walcott, Associate Dean of The College Engineering announces:
Herbert Hoover Young Engineer Award. This award of a medallion and certificate is
presented to an outstanding project in the senior division relating to engineering fundamentals and their
communication.**

**Stephanie Bachas-Daunert, Paul Laurence Dunbar, Quorum Sensing Biomarker Assay for Non-Invasive Diagnosis of
Chrohn's Disease**

**Dr. Bruce Walcott, Associate Dean of The College Engineering announces:
U. S. Metric Association. A certificate award is presented to a student whose
project is outstanding in its incorporation of quantitative measurements and use of SI units.
Joshua Pennington, Casey County High School, How many batteries does it take to light a light bulb?**

**Dr. Bruce Walcott, Associate Dean of The College Engineering announces:
Yale Science Award
The Yale Science and Engineering Association presents a certificate and pewter medallion (to be mailed) for an
outstanding high school grade project in computer science or the physical sciences.
Ryan Will, Paul Laurence Dunbar, Effects of JH and 20E on Immunity in Moth Larva**

**Dr. Robin Cooper, Associate Professor in Department of Biology announces:
U. S. Public Health Service Award
The Surgeon General's special award certificate is presented to a student whose project focuses on promoting healthy
lifestyles through the benefits physical activity, balanced nutrition, and/or avoidance of tobacco.
Stephanie Bachas-Daunert, Paul Laurence Dunbar, Quorum Sensing Biomarker Assay for Non-Invasive Diagnosis of
Chrohn's Disease**

**Dr. Robin Cooper, Associate Professor in Department of Biology announces:
The MU Alpha Theta provides a certificate for an individual or team project demonstrating the most challenging,
thorough, and creative investigation of a problem involving modern mathematics. High School.
Edouard Bahous, Sayre School, Flexural Reinforcement Using SRP**

Dr. Ruth Beattie Announces: UK Department of Biology Awards

The University of Kentucky Department of Biology presents a monetary award for an outstanding project relating to the life sciences.

Meg Mills, Julius Marks Elementary School, Fingerprint Detective

Marie Armbruster, Maxwell Elementary, Does Squinting Help?

Maeley McGaughey, Glendover, TGIF

Abigail Clayton, Maxwell Elementary School, Creek Chemistry

Daniel Sedlacek, St. Leo School, The Biggest "Gainers": Roaches on Chow or Roaches on Rice?

Lauren Davidson, St. Leo, Mysterious Mitosis

Alexis Bell, Squires Elementary, Oh No Mold

Yuina Nakagawa, Beaumont Middle School, What Type of Fruits or Vegetables Make Meat Tender?

Dr. Robert Lorch Jr. from the Department of Psychology selected the UK Department of Psychology Awards

The University of Kentucky Department of Psychology presents a monetary award for an outstanding projects relating to Psychology.

Elizabeth Riley, Henry Clay High School, Developmental Changes in Children's Story Narration

Dylan Sarkisian, Glendover, Hang Up and Drive

Dr. Robert Lorch Jr. from the Department of Psychology presented the American Psychological Association

American Psychological Association offers a certificate for outstanding research in psychology under the category of behavioral and social sciences.

Elizabeth Riley, Henry Clay High School, Developmental Changes in Children's Story Narration

Dr. Ed DeMoll from the Department of Chemistry presented the UK Department of Chemistry Award

The University of Kentucky Department of Biology presents a monetary award for an outstanding project relating to chemistry.

\$75- Stephanie Bachas-Daunert, Paul Laurence Dunbar, Quorum Sensing Biomarker Assay for Non-Invasive Diagnosis of Crohn's Disease

2nd place - Megan McCarthy, St.Leo, What Puts The Pop in Pop?
3rd place - Elizabeth Minor, Meadowthorpe Elementary, Icy Insulators

Earth and Space Science

1st place - Valerie Sarge, Meadowthorpe Elementary, Water Quality
2nd place - Brittany Ragland, Dixie Magnet Elementary School, The Soil Race
3rd place - Andrea Laporte, Julia R. Ewan Elementary School, How fast does water travel through different types of soil?

Microbiology

1st place - Jacob Wachal, Veterans Park Elementary, How Good Is Your Topical Antibiotic?
2nd place - Abigail DeSantis, Lansdowne Elementary, Who Is Dirtier?
3rd place - Morgan Johnson, Stonewall Elementary School, Be Aware of What's in Your Air

Physics

1st place - Caroline Pellegrino, SCAPA Bluegrass, Freaky Frozen Liquids
2nd place - Ryan Roark, St. Leo School, How Far Will It Go?

Zoology

1st place - Daniel Sedlacek, St. Leo School, The Biggest, "Gainers": Roaches on Chow or Roaches on Rice?
2nd place - Meg Mills, Julius Marks Elementary School, Fingerprint Detective
3rd place - Nicolas Ogden, Millcreek Elementary, Hermit Crabs on the Move

Engineering

1st place - Veronica Haggard, Stonewall Elementary, "unknown"
2nd place - Taylor Hood, Glendover, Building Better Bridges
3rd place - James Bidwell, James Lane Allen Elementary, Battle of the Brands

Environmental Science

1st place -Sara Arthur-Paratley, Maxwell Elementary, Does Trash Decompose Faster in a Landfill or Open Soil?

Team projects

1st place - Allison Cope & Mary Plymale, Cassidy, How Does Acid Rain Affect Plant Growth?

2nd place - Savannah See & Jamie Highland, Stonewall Elementary, All About Dogs

OVERALL WINNERS of 4th grade

\$25- 1st place- Marie Armbruster, Maxwell Elementary, Does Squinting Help?

\$25- 2nd place - Urvi Patwardhan, SCAPA Bluegrass, Will Changes in Temperature Affect the Acidity of Creek Water?

\$25- Jacob Wachal, Veterans Park Elementary, How Good Is Your Topical Antibiotic?

[illegible]

Grades 5 to 8

1. Behavioral Science

1st place - Richard Cooper, Glendover, Murder Scene

2nd place - Cassidy Gorrell, Julius Marks Elementary School, What Tunes You In

3rd place - Dylan Sarkisian, Glendover, Hang Up and Drive

2. Botany

1st place - Joy Arosemena, Lexington Traditional Magnet School, Rain, Rain Go Away

2nd place - Elizabeth Hansen, Morton Middle School, Effect of Salt in Irrigation Water on Plant Growth

3rd place - Christopher Chow, Glendover, Plants and Fertilizers

3. Chemistry

1st place - Sourav Dey, Beaumont Middle School, Don't Destroy Your Brain

2nd place - Abigail Clayton, Maxwell Elementary School, Creek

3rd place - Ryan Mumper, LTMS, The Power of Osmosis

4. Earth and Space Science

1st place - Adrienne Kinney, Glendover, Drink Upstream from the Herd

2nd place - Maddie Miller, St. Leo, Whacking Waves
3rd place - Anuj Patwardhan, Winburn Middle School, Metals Leaching in Water

5. Microbiology

1st place - Rahul Joseph, Winburn Middle School, Inhibitory Effects of Spices against E.coli
2nd place - Christopher Mills, Bryan Station MS, Cat Plaque Attack
3rd place - Clay Gonzalez, SCAPA Bluegrass, Bacterium Delerium

6. Physics

1st place - Zebadiah Claytor, BlueGrass Baptist School, "Let's Wrap It Up Magnetically"
2nd place - Leah Douglas, Winburn Middle School, Viscosity and Velocity
3rd place - Lewis Armistead, Trinity Christian Academy, Catapult Physics

7. Zoology

1st place - Kylah Rymond, Morton, On a Diet
2nd place - Daniel Webb, Winburn Middle School, Don't let the bedbugs bite!
3rd place - Kristin Andres, Winburn Middle School, Dioxin, the Toxic Gender Bender

8. Engineering

1st place - Marylynne Anderson-Cooper, Bryan Station MS, Whoosh Power
2nd place - Andrew Watts, Bates Creek Middle, The effect of Bridge Length on Load Capacity
3rd place - Asha Langton, Lexington Traditional Magnet School, Soak it All Up

9. Environmental Science

1st place - Anna Fedorchuk, St. Leo, Limestone Lifesaver
2nd place - Christopher Burnett, Trimble Co. Schools
3rd place - Stephen Trippett, Beaumont Middle School

OVERALL of 5th-8th grade

\$ 50 1st - Richard Cooper, Glendover, Murder Scene
\$ 25 2nd - Sourav Dey, Beaumont Middle School, Don't Destroy Your Brain

\$ 25 3rd - Zebadiah Claytor, BlueGrass Baptist School, "Let's Wrap It Up Magnetically"

First place overall was given a trophy.

Second place overall was given a trophy.

Third place overall was given a trophy.

DISCOVERY CHALLENGE

The Discovery Channel Young Scientist Challenge (DCYSC) is a competition designed to award students in the 5th through 8th grades for their knowledge of science and their ability to communicate effectively about science. Each person awarded at our fair will now compete at a national level. They are to submit a series of written essays of their research as stipulated in the guide book provided to them at the fair.

The projects chosen for this award from our Regional fair are:

Anna Fedorchuk, St. Leo, Limestone Lifesaver

Marylynn Anderson-Cooper, Bryan Station MS, Whoosh Power

Kylah Rymond, Morton, On a Diet

Zebadiah Claytor, BlueGrass Baptist School, "Let's Wrap It Up Magnetically"

Rahul Joseph, Winburn Middle School, Inhibitory Effects of Spices against E.coli

Adrienne Kinney, Glendover, Drink Upstream from the Herd

Sourav Dey, Beaumont Middle School, Don't Destroy Your Brain

Joy Arosemena, Lexington Traditional Magnet School, Rain, Rain Go Away

Richard Cooper, Glendover, Murder Scene

>>>>>>>>>>>>>>>>

A SPECIAL AWARD to the school and Science teacher (5th-8th) with the most winning category awards is : Winburn Middle School

>>>>>>>>>>>>>>>>>>

Senior Division (HIGH SCHOOL)
Awards in the senior division were:

1. Behavioral and Social Science

1st place - Elizabeth Riley, Henry Clay High School, Developmental Changes in Children's Story Narration

2nd place - Ben Colclough, Sayre School, The Effects of Circadian Rhythm on Ahrpud Reproduction

2. Biochemistry

1st place - Stephanie Bachas-Daunert, Paul Laurence Dunbar, Quorum Sensing Biomarker Assay for Non-Invasive Diagnosis of Chrohn's Disease

2nd place - Ryan Will, P.L. Dunbar, Effects of Juvenile Hormone and 20-hydroxyecdysone on the immune response in larva Heliothis virescens

3. Chemistry

1st place - Sasha Zbrozek, Paul Laurence Dunbar, Surface Tension Driven Interactive Molten Metallic Flow

2nd place - Katie Gardner, Sayre School, Dissipation of Crude Oil with Different Solutions

3rd place - Hunter Stephan, Sayre School, Salt Water Dining on Metal's Last Shining

4. Engineering

1st place - Zach Kratzer, Paul Laurence Dunbar, Selective Heating of Nanoscale Gold Particles

5. Environmental Sciences

1st place - Tess Simon, Sayre, The Effect of Chemical and Organic Fertilizers on Grass Seed and Water Runoff

2nd place - Lana Wear, Sayre School, Trash Talk: The Truth about Decomposition

6. Medicine and Health

1st place - David Tao, Paul Laurence Dunbar, Genetic Variation in Neural vs. Hematopoietic Stem Cell Turnover in Inbred Mice

2nd place - Comeron Ghobadi, Lafayette High School, Molecular Imprinting: Protein Selectivity on Artificial Bone Scaffolds.

7. Microbiology

1st place - Doug Denniston, Paul Laurence Dunbar, The Effect of Caffeine, Nicotine and Alcohol on Antibiotic Effectiveness

2nd place - Zachariah Claytor, BlueGrass Baptist School, Stop the Spread of Strep

8. Physics

1st place - Edouard Bahous, Sayre School, Flexural Reinforcement Using SRP

2nd place - Navid John Soleimani-Meigooni, Henry Clay High School, Determination of Therapeutic Advantage of GRID Radiation Therapy Using Film and Thermoluminescent Dosimetry

3rd place - Yuji Yokoi, Sayre School, Light Refraction in Salt Water

9. Zoology

1st place - Clay Turner, Lafayette High School, The Effects of Dopamine on Behavior and Development in Drosophila

2nd place - Ann Cooper, Lafayette Senior High, Nerve Terminal Regulation With Muscle Atrophy and Regeneration

10. Team Projects

1st place - Laura Steinmetz, David Wang & Greg Artiushin, Paul Laurence Dunbar, The Effects of Livestock Antibiotics on Nitrogen Cycling Soil Microorganisms

2nd place - J. P. Stilz, Yuan Wen & George Zhang, Paul Laurence Dunbar, AIDS Inhibition: Silencing of TAT Expression Mouse Cells

OVERALL WINNERS of 9th-12 grade

High School

1st place - Sasha Zbrozek, Paul Laurence Dunbar, Surface Tension Driven Interactive Molten Metallic Flow

2nd place - Stephanie Bachas-Daunert, Paul Laurence Dunbar, Quorum Sensing Biomarker Assay for Non-Invasive Diagnosis of Chrohn's Disease

3rd place - Clay Turner, Lafayette High School, The Effects of Dopamine on Behavior and Development in Drosophila
{DURING THE AWARDS CEREMONY ANN COOPER WAS MISTAKENLY ANNOUNCED AS 3rd OVERALL when it should have been CLAY TURNER}

The OVERALL winners received 1st (\$100), 2nd (\$75), 3rd (\$50) in gift certificates to Office DEPOT

In addition the BIOLOGICAL SCIENCES / PHYSICAL SCIENCES:

First place overall - a trophy and an all-expenses-paid trip to the International Science and Engineering Fair (INTEL) for the student.

Second place overall - a trophy and all-expenses-paid trip to the International Science and Engineering Fair (INTEL) for the student.

First place TEAM Overall - An all-expenses-paid trip to the International Science and Engineering Fair (INTEL) for the students.

**PROJECTS SELECTED TO GO TO THE STATE SCIENCE AND ENGINEERING FAIR AT EASTERN KY UNIVERSITY Held on
APRIL 1st
see [www](http://www.ky.gov) site for information**

**Richard Cooper, Glendover, Murder Scene
Cassidy Gorrell, Julius Marks Elementary School, What Tunes You In
Dylan Sarkisian, Glendover, Hang Up and Drive
Joy Arosemena, Lexington Traditional Magnet School, Rain, Rain Go Away
Elizabeth Hansen, Morton Middle School, Effect of Salt in Irrigation Water on Plant Growth
Christopher Chow, Glendover, Plants and Fertilizers
Sourav Dey, Beaumont Middle School, Don't Destroy Your Brain
Abigail Clayton, Maxwell Elementary School, Creek
Ryan Mumper, LTMS, The Power of Osmosis
Adrienne Kinney, Glendover, Drink Upstream from the Herd
Maddie Miller, St. Leo, Whacking Waves
Rahul Joseph, Winburn Middle School, Inhibitory Effects of Spices against E.coli
Christopher Mills, Bryan Station MS, Cat Plaque Attack
Zebadiah Claytor, BlueGrass Baptist School, "Let's Wrap It Up Magnetically"
Leah Douglas, Winburn Middle School, Viscosity and Velocity
Lewis Armistead, Trinity Christian Academy, Catapult Physics
Kylah Rymond, Morton, On a Diet
Daniel Webb, Winburn Middle School, Don't let the bedbugs bite!
Marylynne Anderson-Cooper, Bryan Station MS, Whoosh Power**

Andrew Watts, Tates Creek Middle, The effect of Bridge Length on Load Capacity
 Asha Langton, Lexington Traditional Magnet School, Soak it All Up
 Anna Fedorchuk, St. Leo, Limestone Lifesaver
 Christopher Burnett, Casey Co., Title?
 Elizabeth Riley, Henry Clay High School, Developmental Changes in Children's Story Narration
 Ben Colclough, Sayre School, The Effects of Circadian Rhythm on Ahrpud Reproduction
 Stephanie Bachas-Daunert, Paul Laurence Dunbar, Quorum Sensing Biomarker Assay for Non-Invasive Diagnosis of
 Chrohn's Disease
 Ryan Will, P.L. Dunbar, Effects of Juvenile Hormone and 20-hydroxyecdysone on the immune response in larva *Heliothis virescens*
 Sasha Zbrozek, Paul Laurence Dunbar, Surface Tension Driven Interactive Molten Metallic Flow
 Katie Gardner, Sayre School, Dissipation of Crude Oil with Different Solutions
 Hunter Stephan, Sayre School, Salt Water Dining on Metal's Last Shining
 Zach Kratzer, Paul Laurence Dunbar, Selective Heating of Nanoscale Gold Particles
 Tess Simon, Sayre, The Effect of Chemical and Organic Fertilizers on Grass Seed and Water Runoff
 Lana Wear, Sayre School, Trash Talk: The Truth about Decomposition
 David Tao, Paul Laurence Dunbar, Genetic Variation in Neural vs. Hematopoietic Stem Cell Turnover in Inbred Mice
 Comeron Ghobadi, Lafayette High School, Molecular Imprinting: Protein Selectivity on Artificial Bone Scaffolds.
 Doug Denniston, Paul Laurence Dunbar, The Effect of Caffeine, Nicotine and Alcohol on Antibiotic Effectiveness
 Zachariah Claytor, BlueGrass Baptist School, Stop the Spread of Strep
 Edouard Bahous, Sayre School, Flexural Reinforcement Using SRP
 Navid John Soleimani-Meigooni, Henry Clay High School, Determination of Therapeutic Advantage of GRID Radiation
 Therapy Using Film and
 Yuji Yokoi, Sayre School, Light Refraction in Salt Water
 Clay Turner, Lafayette High School, The Effects of Dopamine on Behavior and Development in *Drosophila*
 Ann Cooper, Lafayette Senior High, Nerve Terminal Regulation With Muscle Atrophy and Regeneration
 Laura Steinmetz, David Wang & Greg Artiushin, Paul Laurence Dunbar, The Effects of Livestock Antibiotics on Nitrogen
 Cycling Soil Microorganisms
 J. P. Stilz, Yuan Wen & George Zhang, Paul Laurence Dunbar, AIDS Inhibition: Silencing of TAT Expression Mouse Cells