

Team Kentucky Awards: **2013 INTEL**

Grand Awards

Second Award of \$1,500: Energy and Transportation

Novel Materials for Organic Solar Cells

Valerie Youngmi Sarge, 15, Paul Laurence Dunbar High School, Lexington, Kentucky

Second Award of \$1,500: Environmental Sciences

An Inquiry into the Effect of the Environmental Pollutant Acrylic Aldehyde on Neutrophil Activation

Sanjana Jagdish Rane, 15, duPont Manual Magnet High School, Louisville, Kentucky

Third Award of \$1,000: Engineering: Materials and Bioengineering

Optimization of Carbon Nanotube-based CFx Primary Battery Performance: Role of Fluorination

Richard Nipun Gunasena, 14, duPont Manual Magnet High School, Louisville, Kentucky

Third Award of \$1,000: Environmental Sciences

A Four Year Mathematical Analysis as a Predictor of Dams Impact on Biodiversity and Stream Recovery

Aimee Michelle Turner, 18, Ballard High School, Louisville, Kentucky

Fourth Award of \$500: Engineering: Materials and Bioengineering

Studying Bone Matrix Formation via Bioengineering Approach

Karan Babbarwal, 16, duPont Manual Magnet High School, Louisville, Kentucky

Fourth Award of \$500: Environmental Management Category

Further Studies in Biofilm Removal of Wastewater Contaminants

Monica Elizabeth McFadden, 18, Notre Dame Academy, Park Hills, Kentucky

Fourth Award of \$500: Behavioral and Social Sciences Category

The Effects of the Media on Gender Stereotypes and the Furthering of Sexual Harassment

Petra Katherine Ronald, 17, Paul Laurence Dunbar High School, Lexington, Kentucky

Fourth Award of \$500: Physics and Astronomy

Superconductivity Emerging from Diamagnetism and Non-Fermi Liquid Behavior in a New Class of Chalcogenides

Vincent Shian Cao, 17, Paul Laurence Dunbar High School, Lexington, Kentucky

Special Award Recognition:

American Physiological Society: **Third Award of \$500**

What Are Mechanisms Underlying Nicotine Induced Neutrophil Apoptosis?

Jay Kumar, 17, duPont Manual Magnet High School, Louisville, Kentucky

Endocrine Society: **Certificate of Honorable Mention**

Analysis of Changes Regarding Insulin Signaling in Response to High Fat Diet and Aging

Trevor James Krolak, 18, Paul Laurence Dunbar High School, Lexington, Kentucky

European Organization for Nuclear Research-CERN: **All-expense paid trip to CERN, Geneva, Switzerland**

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King Abdul-Aziz & his Companions Foundation for Giftedness and Creativity: **Fourth Award \$1,500**
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University of the Sciences in Philadelphia: **Tuition Scholarship of \$15,000 per year for four years**
What Are Mechanisms Underlying Nicotine Induced Neutrophil Apoptosis?
Jay Kumar, 17, duPont Manual Magnet High School, Louisville, Kentucky