
Jacob Utley.....Computer Science

Stratford STEM School, Nashville
"Augmented Reality Mirror: Using Xbox Kinect to Overlay Realistic Organ Images in Real Time"

Kenwood High School, Clarksville
"Can Cooking Foods Decrease Their Vitamin C Level?"

Khorey Williams.....Chemistry

Kenwood High School, Clarksville
"The Correlation Between the Fruit Maturity and Glucose"

Brandon Boykin.....Physics

Kenwood High School, Clarksville
"The Most Effective Trajectory for a Free Throw"

Jacob Brack.....Engineering

Kenwood High School, Clarksville
"How Citrus Juice Affects Gratzel Cell Efficiency"

Kelsey Thornton.....Chemistry

Kenwood High School, Clarksville
"The Effectiveness of Propylene Glycol Substitutes in Lotions with Plant-Derived Ingredients"

Ryne Montoya, Michael Montoya & Anna Cooper.....Biology

Siegel High School, Murfreesboro
"The Effects of Disturbance on Invertebrate Diversity in Cedar Glade Habitats"

James Simmons & Matthew Watts.....Biology

Siegel High School, Murfreesboro
"Soil Composition Related to Development and Invertebrate Biodiversity of Cedar Glade Habitats in Middle Tennessee"

Tobias Roberts & Mudi YangPhysics

School for Science and Math at Vanderbilt, Nashville
"Automation of Pulsar Detection from a 350 MHz Radio Telescope Drift-Scan"

Eghosa Eguakun, Kevin Gomez & Austin LuBiology

School for Science and Math at Vanderbilt, Nashville
"Design and Implementation of a Neuroprosthetic Hand Using Electromagnetic Input"

Katelyn Sutherland, Youli Yao & Lu ZhengMicrobiology & Earth Sciences

School for Science and Math at Vanderbilt, Nashville
"An Analysis of Microbial Diversity in Natural vs. Mitigation Wetlands in Relation to Wetland Functionality"

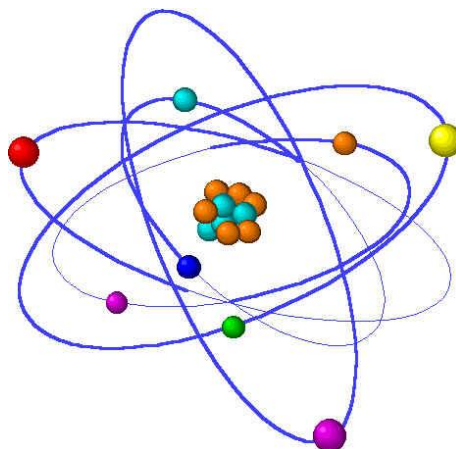
Emily EarlsBiology

Hillsboro High School, Nashville
"Assessing the Effect of Vitamin C on Superoxide Dismutase's Ability to Treat Cancer"

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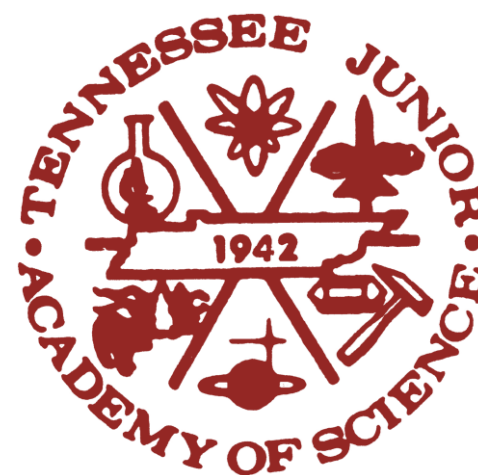
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Tennessee



TENNESSEE JUNIOR ACADEMY OF SCIENCE

ANNUAL MEETING



BELMONT UNIVERSITY
Nashville, Tennessee

FRIDAY, APRIL 21ST, 2017

Sponsored by the
Tennessee Academy of Science

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- Dr. Joel HarpVanderbilt University
- Dr. Susan Verberne-SuttonVanderbilt University
- Dr. Mari Weller Middle Tennessee State University

PROGRAM
Friday, April 21st, 2017

- 9:00 - 9:30 am.....Registration
- 9:30 - 9:40 am.....Welcome
- 9:40 - 12 noonPaper Presentations
- 12:00 noon - 1:00 pm.....Lunch
- 1:00 pm - 4:00 pm.....Paper Presentations
- 4:00 pm.....Adjournment

TENNESSEE
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Papers to be Presented

Student's Name, Research Classification,
School, City, and Title of Paper

Kaytlyn Jones & Haley Tranum..... Astronomy

Sullivan South High School, Kingsport
"The Rotation Period of the Asteroid 6729 Emiko"

Connor Chase & Katie Beyersdorf.....Botany

Sullivan South High School, Kingsport
"The Effects of X-Ray Radiation on Plant Growth and Development"

Elizabeth Gaviria, Grayson Peters & Lexi Sheeler

.....**Computer Science**
School for Science and Math at Vanderbilt, Nashville
"Developing a Vanderbilt University-Based
Carbon Footprint Calculator Web Application"

**Megan Dernberger, Chaitu Konjeti, Taylor Smith
& Casey Van Kaer.....Computer Science**

School for Science and Math at Vanderbilt, Nashville
"Development of Basketball Metrics Using SportVU,
an Advanced Optical Recognition System"

Adia Bulawa.....Astrobiology

Greeneville High School, Greeneville
"Panspermia"

Elisabeth Ellis.....Biology

Christ Presbyterian Academy, Nashville
"The Effects of Over-the-Counter Medications on the
Phenotypic Expression of *Drosophila melanogaster*"

Jackson Cedzich-Grant.....Electrical Engineering

Hillsboro High School, Nashville
"The Development of a Low-Cost and Efficient Electric
Guitar Effects System"

Connor High.....Biology

Hillsboro High School, Nashville
"Evaluating the Effects of NSAIDs on the Proliferation
and Metastatic Potential of Mouse Colon Cancer Cells"

Lena Schelzig.....Biology

Hillsboro High School, Nashville
"Determining the Effects of Turmeric and Dandelion
Root Extract on Cancer Cells"

Sahil Goklaney.....Chemistry

Kenwood High School, Clarksville
"Can Cooking Foods Decrease Their Vitamin C Level?"

Chloe FreakeEnvironmental Science

Cleveland High School, Cleveland
"Short-Term Effects of Anthropogenic Sonar and
Industrial Sounds on Fish"

Lunch Break!
