



# Central Virginia Governor's School for Science and Technology

proudly presents the 13<sup>th</sup> Annual

## Senior Science Scenario (S<sup>3</sup>)

*“Predicting Changes Through  
Mathematical Modeling”*

Wednesday and Thursday  
May 24 and 25, 2017  
7:15 a.m. - 10:20 a.m.



**LYNCHBURG**  
COLLEGE EST. 1903

**Schewel Hall**  
~ Sydnor Performance Hall ~

We are grateful to  
**Lynchburg College**  
for hosting our S-Cubed presentations!

**CVGS S<sup>3</sup> Faculty Members**  
Mrs. Michelle Douglass: Biology  
Mr. Steve Howard: Computer Science  
Mrs. Melisa Shifflett: Mathematics



## Wednesday, May 24, 2017

- 7:15 Continental Breakfast**  
Sponsored by the CVGS Foundation
- 7:30 Welcome** (Mr. Steve Howard, CVGS)
- 7:40 Topic: *Radiation on Tumors***  
Sung min Cho - Heritage  
Mason Howard - Jefferson Forest  
Devika Naphade - Brookville  
Aaron Plattus - Liberty  
Jack Schimmoeller - Jefferson Forest
- 8:00 Topic: *Measles and Immunity***  
Madison Allen - Amherst  
Kieran Bowyer - Heritage  
Tony Close - Altavista  
Avery Combs - E C Glass  
Melissa Poletti - E C Glass  
Sarah Price - Jefferson Forest
- 8:20 Topic: *North American Bat Population***  
Danny Bass - E C Glass  
Carter Cundiff - E C Glass  
Ryan Henderson - William Campbell  
Summer Rucker - Amherst  
Paisley Williams - Heritage
- 8:40 Topic: *Antibiotic Resistant Bacteria***  
Gabby Coradazzi - Heritage  
Emily Salmon - E C Glass  
Sydney Tweedy - Amherst  
Jack Vance - Rustburg  
Morgan Whitfield - Jefferson Forest
- 9:00 Break**



## Wednesday, May 24, 2017 (continued)

**9:10**    **Topic: *Progression of Alzheimer's Disease***  
Jonathan Bumgarner - Brookville  
Julia Finley - Heritage  
Lee Hamilton - Amherst  
Carter Jenkins - Jefferson Forest  
Nick Servis - Appomattox

**9:30**    **Topic: *Medicine Dose on Colorectal Tumors***  
Tim Andrews - Liberty  
Rabiea Ashraf - Heritage  
Virginia Corsini - E C Glass  
Zane Hall - Appomattox  
Turner Lee - Heritage

**9:50**    **Topic: *Human and Elephant Populations***  
Tom Baker - E C Glass  
Kylene Flynn - Liberty  
Julia Grier - Jefferson Forest  
Nathan Kennedy - Brookville  
Grace Kerelejza - Heritage



## Thursday, May 25, 2017

**7:15**    **Continental Breakfast**  
Sponsored by the CVGS Foundation

**7:30**    **Topic: *Industry and Population Density of Mature Trees***  
Rachel Cate - E C Glass  
Rhiannon Cire - Liberty  
Regan Kinder - E C Glass  
Caleb Müller - Jefferson Forest  
Lexi Sale - Amherst  
Emory Willoughby - Jefferson Forest



## Thursday, May 25, 2017 (continued)

**7: 55**    **Topic: *Antibiotic Consumption by Food Animals***

Sierrah Fulmer - Brookville  
Mason Hudson - Amherst  
Noah Rempfer - Jefferson Forest  
Hannah Schrock - William Campbell  
Delaney Snead - Jefferson Forest

**8:20**    **Topic: *Light Levels on Crop Growth Rates***

Crawford Dawson - Rustburg  
Anna Drumheller - Jefferson Forest  
Kendall Knight - Brookville  
Reuben Mathew - Jefferson Forest  
Sara Pettyjohn - Amherst

**8:40**    **Break**

**8:50**    **Topic: *Insulin Resistance***

Camden Levinson - Jefferson Forest  
John Light - Brookville  
Jacob Nott - Liberty  
Madeline Phillips - E C Glass  
Sarah Wells - Amherst

**9:15**    **Topic: *Interventions on the Ebola Virus***

Madi Alvis - Rustburg  
Christina Bennett - E C Glass  
Nick Campbell - Amherst  
Hank Riffie - E C Glass  
Reagan Snead - Jefferson Forest

**9:40**    **Topic: *MRAB colonization in an ICU***

Madison Floyd - Brookville  
Claire Long - Jefferson Forest  
Malik Nowlin - Brookville  
Nuha Reza - E C Glass  
Adam Vaughan - Appomattox