Virginia Junior Academy of Science
May 22, 2015
Research Symposium and 74rd Annual Meeting
James Madison University
Harrisonburg, Virginia

Section Awards

ANIMAL AND HUMAN SCIENCE

Honorable Mention
Name(s) Rebekah Cohodas
School George H. Moody Middle School

Honorable Mention
Name(s) Corbette Condit-Fox
School Sabot at Stony Point

Third Place
Name(s) Mathilde Gammino
School Sabot at Stony Point

Second Place
Name(s) Matthew Jaffe
School Thomas Jefferson Middle School

First Place
Name(s) Caroline Brickley
School Tuckahoe Middle School
ANIMAL AND HUMAN SCIENCE

Honorable Mention
Name(s): Jordan Mosley
School: Thomas Jefferson Middle School

Third Place
Name(s): Leila Shepard
School: Tuckahoe Middle School

Second Place
Name(s): Laura Shaia
School: Tuckahoe Middle School

First Place
Name(s): Hannah Parker
School: Sabot at Stony Point

BOTANY

Honorable Mention
Name(s): Jacob Boone
School: Central Virginia Governor’s School

Honorable Mention
Name(s): David Coffman
School: Mills E. Godwin High School

Honorable Mention
Name(s): Cameron Wierzbanowski
School: Washington-Lee High School

Third Place
Name(s): Liam Spiers
School: Mills E. Godwin High School

Second Place
Name(s): Cameron Kelly
School: Roanoke Valley Governor’s School

First Place
Name(s): Skylar Brodowski
School: Washington-Lee High School
CHEMICAL SCIENCE  A

Honorable Mention  Name(s)  Choe Aldana
School  George H. Moody Middle School

Honorable Mention  Name(s)  Henry Cutright
School  George H. Moody Middle School

Honorable Mention  Name(s)  Vir Dasgupta
School  Tuckahoe Middle School

Third Place  Name(s)  Athena Butler-Christodoulou
School  Gunston Middle School

Second Place  Name(s)  Katie Fried
School  Thomas Jefferson Middle School

First Place  Name(s)  Nikhil Chandravel
School  Tuckahoe Middle School

CHEMICAL SCIENCE  B

Honorable Mention  Name(s)  Gabrielle Jefferson
School  George H. Moody Middle School

Honorable Mention  Name(s)  Akankshya Jena
School  George H. Moody Middle School

Third Place  Name(s)  Owen Markow
School  George H. Moody Middle School

Second Place  Name(s)  Evan Maly
School  Thomas Jefferson Middle School

First Place  Name(s)  Caitlin McSorley
School  George H. Moody Middle School
CHEMICAL SCIENCE

Honorable Mention
Name(s)
Mia Wiesinger
School
George H. Moody Middle School

Third Place
Name(s)
Mignote Tadesse
School
Kenmore Middle School

Second Place
Name(s)
Charles Purrington
School
Sabot at Stony Point

First Place
Name(s)
Esha Sharma
School
George H. Moody Middle School

CHEMISTRY

Honorable Mention
Name(s)
Ryann Brown
School
Washington-Lee High School

Honorable Mention
Name(s)
Kelsey Levine
School
Mills E. Godwin High School

Honorable Mention
Name(s)
Yunyun Wang
School
Roanoke Valley Governor’s School

Third Place
Name(s)
Andrew Miller
School
Mills E. Godwin High School

Second Place
Name(s)
David Lu
School
Mills E. Godwin High School

First Place
Name(s)
Jake Cui, John Han & Lily Li
School
Thomas Jefferson High School
ECOLOGY & EARTH SCIENCES  A

Honorable Mention  Name(s)  Dominic Gammino
                   School  Sabot at Stony Point

Honorable Mention  Name(s)  Pragati Kapila
                   School  George H. Moody Middle School

Third Place  Name(s)  Henry Lear
             School  Tuckahoe Middle School

Second Place  Name(s)  Kate Driebe
              School  Sabot at Stony Point

First Place  Name(s)  Raghda Labban
             School  George H. Moody Middle School

ECOLOGY & EARTH SCIENCES  B

Honorable Mention  Name(s)  Nicole Rychagov
                   School  Cape Henry Collegiate School

Honorable Mention  Name(s)  Abigail Taylor
                   School  Tuckahoe Middle School

Third Place  Name(s)  Joseph Mistretta
             School  George H. Moody Middle School

Second Place  Name(s)  Elizabeth McCoy
              School  Tuckahoe Middle School

First Place  Name(s)  Ian Street
             School  Tuckahoe Middle School
ENGINEERING

Honorable Mention  Name(s)  Alexander Amram
                  School  Washington-Lee High School

Honorable Mention  Name(s)  Jon Gustafson
                  School  Mountain Vista Governor’s School

Honorable Mention  Name(s)  Carina Stocker
                  School  Roanoke Valley Governor’s School

Third Place  Name(s)  Hana Pross
              School  Mountain Vista Governor’s School

Second Place  Name(s)  Kelly Devens
              School  Roanoke Valley Governor’s School

First Place  Name(s)  Emma Stowe & Emma Strickland
              School  Blacksburg High School

ENGINEERING & MATHEMATICS

Honorable Mention  Name(s)  Lovell Abraham
                  School  George H. Moody Middle School

Honorable Mention  Name(s)  Sarah Bender
                  School  George H. Moody Middle School

Honorable Mention  Name(s)  Victoria Graf
                  School  Williamsburg Middle School

Third Place  Name(s)  Sabrina Atkin
              School  Williamsburg Middle School

Second Place  Name(s)  Shane Bishop
              School  Tuckahoe Middle School

First Place  Name(s)  Hannah Foley
              School  Kenmore Middle School
ENGINEERING & MATHEMATICS  B

Honorable Mention  Name(s)  Tucker Stanley
                  School  Thomas Jefferson Middle School

Honorable Mention  Name(s)  Allison Stocks
                  School  Williamsburg Middle School

Honorable Mention  Name(s)  Lilly Yowell
                  School  Tuckahoe Middle School

Third Place  Name(s)  Calder Lowenthal
               School  Swanson Middle School

Second Place  Name(s)  Nikhil Paul
               School  George H. Moody Middle School

First Place  Name(s)  Addison Phelps
               School  Williamsburg Middle School

ENVIRONMENTAL SCIENCE  A

Honorable Mention  Name(s)  William Cathey
                  School  Roanoke Valley Governor’s School

Honorable Mention  Name(s)  Cater Gallant
                  School  Mathematics & Science High School at Clover Hill

Honorable Mention  Name(s)  Daniel Hanson
                  School  Central Virginia Governor’s School

Third Place  Name(s)  Rachel Cleaveland
               School  Yorktown High School

Second Place  Name(s)  Christine Flora
               School  Roanoke Valley Governor’s School

First Place  Name(s)  Grant Colip
               School  Roanoke Valley Governor’s School
ENVIRONMENTAL SCIENCE  B

Honorable Mention  Name(s)  Zachary Kaylor  School  Chesapeake Bay Governor’s School

Honorable Mention  Name(s)  John Mason  School  Washington-Lee High School

Honorable Mention  Name(s)  Demetrios Maurakis  School  Midlothian High School

Third Place  Name(s)  Su Kim  School  Mills E. Godwin High School

Second Place  Name(s)  Theodor Nichols  School  Washington-Lee High School

First Place  Name(s)  Shannon Miklandric  School  Mathematics & Science High School at Clover Hill

ENVIRONMENTAL SCIENCE  C

Honorable Mention  Name(s)  Thomas Parker  School  Chesapeake Bay Governor’s School

Honorable Mention  Name(s)  William Parker  School  Mills E. Godwin High School

Honorable Mention  Name(s)  Caleb Selph  School  Chesapeake Bay Governor’s School

Third Place  Name(s)  William Rawson  School  Mills E. Godwin High School

Second Place  Name(s)  Robin Thady  School  Chesapeake Bay Governor’s School

First Place  Name(s)  Adam Parker  School  Chesapeake Bay Governor’s School
### HUMAN BEHAVIOR A

<table>
<thead>
<tr>
<th>Category</th>
<th>Name(s)</th>
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<tr>
<td>Honorable Mention</td>
<td>Lindsey Gradowski &amp; Juliana Logan</td>
<td>Kenmore Middle School</td>
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<tr>
<td>Honorable Mention</td>
<td>Anna Homer</td>
<td>Sabot at Stony Point</td>
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<td>Third Place</td>
<td>Josephine Holland</td>
<td>Tuckahoe Middle School</td>
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<td>Tyler Dillon</td>
<td>George H. Moody Middle School</td>
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<tr>
<td>First Place</td>
<td>Naren Kasinath</td>
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### HUMAN BEHAVIOR B

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<td>Caroline Tyler</td>
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<td>Alya Lawindo</td>
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<td>Lane McDonnell</td>
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<td>Lilac Rudolph</td>
<td>Sabot at Stony Point</td>
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MATHEMATICS, STATISTICS & COMPUTER SCIENCE

Honorable Mention  
Name(s): David Qin  
School: Mills E. Godwin High School

Honorable Mention  
Name(s): Mark Tenzer  
School: Roanoke Valley Governor’s School

Honorable Mention  
Name(s): Evan Cater  
School: Yorktown High School

Third Place  
Name(s): Dhruv Gupta & Srijith Poduval  
School: Thomas Jefferson High School

Second Place  
Name(s): Kacey Price  
School: Roanoke Valley Governor’s School

First Place  
Name(s): Swapnil Pande  
School: Mills E. Godwin High School

MEDICINE & HEALTH A

Honorable Mention  
Name(s): Daniel Chow  
School: Mills E. Godwin High School

Honorable Mention  
Name(s): Jacob Hall  
School: H-B Woodlawn Secondary Program

Honorable Mention  
Name(s): Cassidy Hilton  
School: Central Virginia Governor’s School

Third Place  
Name(s): Grace Elman  
School: Washington-Lee High School

Second Place  
Name(s): Robert Carlson  
School: Central Virginia Governor’s School

First Place  
Name(s): Maeve Cantwell  
School: Washington-Lee High School
## MEDICINE & HEALTH B

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<tr>
<td>Honorable Mention</td>
<td>Megan O’Briant</td>
<td>Yorktown High School</td>
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<td>Sarah Philips</td>
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<td>Alanna VanValkenburgh</td>
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<tr>
<td>Third Place</td>
<td>Aaron Parr</td>
<td>Gloucester High School</td>
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<td>Farheen Zaman</td>
<td>Mills E. Godwin High School</td>
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<tr>
<td>First Place</td>
<td>Jennifer Mak &amp; Mouni Talari</td>
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## MICROBIOLOGY & CELL BIOLOGY

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<td>Rachael Hazlett</td>
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<td>Kevin Zhan</td>
<td>Mills E. Godwin High School</td>
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<td>Third Place</td>
<td>Eric Teichner</td>
<td>Mills E. Godwin High School</td>
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<td>Second Place</td>
<td>Colette McCord-Snook</td>
<td>Washington-Lee High School</td>
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<tr>
<td>First Place</td>
<td>Valentina Lohr</td>
<td>Thomas Jefferson High School</td>
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</table>
PHYSICAL SCIENCE  A

Honorable Mention
Name(s) Emma Del Fabbro
School Sabot at Stony Point

Honorable Mention
Name(s) Marina Eichenberger
School Tuckahoe Middle School

Third Place
Name(s) Catherine Green
School George H. Moody Middle School

Second Place
Name(s) Alexander Broening
School Sabot at Stony Point

First Place
Name(s) Julia Cassidy
School Sabot at Stony Point

PHYSICAL SCIENCE  B

Honorable Mention
Name(s) Cole Myers
School Sabot at Stony Point

Honorable Mention
Name(s) Megha Nair
School George H. Moody Middle School

Honorable Mention
Name(s) Sarah Parker
School George H. Moody Middle School

Third Place
Name(s) Jackson Jeffrey
School George H. Moody Middle School

Second Place
Name(s) Collin Murphy
School George H. Moody Middle School

First Place
Name(s) Hunter McGuire IV
School Sabot at Stony Point
**PHYSICAL SCIENCE**

**Honorable Mention**

Name(s): Sampath Ravva  
School: George H. Moody Middle School

Name(s): Grace Smith  
School: Mary Ellen Henderson Middle School

Name(s): Sabrina Ye  
School: George H. Moody Middle School

**Third Place**

Name(s): Izzy Schuler  
School: Sabot at Stony Point

**Second Place**

Name(s): Holly Stephens  
School: George H. Moody Middle School

**First Place**

Name(s): Avi Urbach  
School: Mary Ellen Henderson Middle School

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**PHYSICS**

**Honorable Mention**

Name(s): Ben Brooks  
School: Washington-Lee High School

Name(s): Jake Smith  
School: Central Virginia Governor’s School

Name(s): Emily Wroblewski  
School: Mathematics & Science High School at Clover Hill

**Third Place**

Name(s): Cameron Roberts  
School: Central Virginia Governor’s School

**Second Place**

Name(s): Bridget Hart  
School: Yorktown High School

**First Place**

Name(s): Warner McGhee  
School: Roanoke Valley Governor’s School
# PLANT SCIENCES AND MICROBIOLOGY  A

<table>
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<tr>
<td>Honorable Mention</td>
<td>Janine Icalla</td>
<td>George H. Moody Middle School</td>
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<td>Third Place</td>
<td>Mohini Johri</td>
<td>George H. Moody Middle School</td>
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<td>Thomas Blue</td>
<td>Sabot at Stony Point</td>
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<tr>
<td>First Place</td>
<td>Emily Carder</td>
<td>George H. Moody Middle School</td>
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# PLANT SCIENCES AND MICROBIOLOGY  B

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<tr>
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<td>Zoe Manring</td>
<td>Tuckahoe Middle School</td>
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<td>Honorable Mention</td>
<td>Phoung-Vy Nguyen</td>
<td>George H. Moody Middle School</td>
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<td>Adam Sachs</td>
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<td>Grace Powers</td>
<td>George H. Moody Middle School</td>
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<td>Dominik Serene</td>
<td>Tuckahoe Middle School</td>
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<tr>
<td>First Place</td>
<td>Evan Wolff</td>
<td>Sabot at Stony Point</td>
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Awards for Website: 5/22/15, JMU

PSYCHOLOGY

Honorable Mention
Name(s) Grace Hauck
School Washington-Lee High School

Honorable Mention
Name(s) Hallie Miller
School Mills E. Godwin High School

Honorable Mention
Name(s) Erik Paletzki & Pablo Wilson
School Washington-Lee High School

Third Place
Name(s) Isabel Caprise
School Central Virginia Governor’s School

Second Place
Name(s) Negar Kosar
School Washington-Lee High School

First Place
Name(s) Holly Carrington
School Central Virginia Governor’s School

ZOOLOGY

Honorable Mention
Name(s) Ankit Kumar
School Mills E. Godwin High School

Honorable Mention
Name(s) Howard Huang
School Roanoke Valley Governor’s School

Honorable Mention
Name(s) Emma Mayes
School Mathematics & Science High School at Clover Hill

Third Place
Name(s) Madeline Hays
School Chesapeake Bay Governor’s School

Second Place
Name(s) Natalie Tu
School Mills E. Godwin High School

Second Place
Name(s) Suraj Bala
School Mills E. Godwin High School

First Place
Name(s) Emma Glass
School Thomas Jefferson High School
Special Awards and Scholarships

VAS BOTANY AWARD
The award is given by the Botany Section of the Virginia Academy of Science, to the best paper on a botanical subject.

Name(s)  Skylar Brodowski
School  Washington-Lee High School

RODNEY C. BERRY CHEMISTRY AWARD
The Rodney C. Berry Chemistry Award is given for the paper that evidences the most significant contribution in the field of chemistry.

Name(s)  Jake Cui, John Han & Lily Li
School  Thomas Jefferson High School

WILLIAM W. BERRY ENGINEERING AWARD
This award is given by Dominion Virginia Power in honor of Mr. William W. Berry who was a past Chairman of the Board of Virginia Power.

Name(s)  Emma Stowe & Emma Strickland
School  Blacksburg High School

ANN M. HANCOCK CELLULAR BIOLOGY AWARD
This award is given to the best paper in cellular biology and is presented in memory of Anne M. Hancock who retired from Patrick Henry High School in Hanover County and who gave many years of service to the Jr. Academy not only by teaching but also serving on the Jr. Academy Committee.

Name(s)  Valentina Lohr
School  Thomas Jefferson High School
ROSOCO HUGHES GENETICS AWARD
The Roscoe Hughes Award is given for the best paper in the field of Genetics.

Name(s)    Nikhil Chandravel
School     Tuckahoe Middle School

MATHEMATICS AWARD
The Mathematics Award is given for the paper that evidences the most significant contribution in the field of Mathematics.

Name(s)    Swapnil Pande
School     Mills E. Godwin High School

STATISTICS AWARD
The Statistics Award is given for the paper that evidences the most significant contribution in the field of Statistics.

Name(s)    Dhruv Gupta & Srijith Poduval
School     Thomas Jefferson High School

VABE ZOOLOGY AWARD
This award is presented by the Virginia Association of Biology Educators and is given for outstanding research in the Zoology section.

Name(s)    Emma Glass
School     Thomas Jefferson High School

CANCER RESEARCH AWARDS
These awards are to recognize outstanding science papers related to cancer research. These awards are provided by the American Cancer Society.

Second Place (Tie) Name(s)    Nikhil Chandravel
School     Tuckahoe Middle School

Second Place (Tie) Name(s)    Emily Parnell & Jasmine Armster
School     Roanoke Valley Governor’s School

First Place (Tie) Name(s)    John Han
School     Thomas Jefferson High School

First Place (Tie) Name(s)    Megana Kasavaraju
School     Rock Ridge High School

Awards for Website: 5/22/15, JMU
DR. AND MRS. PRESTON H. LEAKE AWARD IN APPLIED CHEMISTRY
The Dr. and Mrs. Preston H. Leake Award in Applied Chemistry is given to the author of a research paper which best exemplifies how chemicals, chemical principles, or chemistry have been used, are used, or might be used to enhance or even to save life.

Name(s)  Jon Gustafson
School  Mountain Vista Governor’s School

INFECTIOUS DISEASES AWARD
This award is given to commemorate Dr. Smith Shadomy by the Virginia Chapter of the National Foundation for Infectious Diseases to the paper that evidences outstanding research in the field of infectious diseases.

Name(s)  Robert Carlson
School  Central Virginia Governor’s School

SPELEOLOGICAL SOCIETY AWARD
Given by the Richmond Area Speleological Society for outstanding research addressing karst or topics related to speleology (bats, caves, carbonate geology, paleoenvironments, limestone fossils, sinkholes, etc.

Name(s)  (No entries this year)
School 

VIRGINIA MUSEUM OF NATURAL HISTORY (VMNH) AWARD
This award is presented by the Friends of the Virginia Museum of Natural History in recognition of a significant contribution in the study and interpretation of Virginia's Natural Heritage.

Name(s)  Nicole Rychagov
School  Cape Henry Collegiate School

VIRGINIA SEA GRANT COLLEGE PROGRAM AWARD
This award is given by the Virginia Sea Grant College Program for outstanding marine or coastal research.

Name(s)  Valentina Lohr
School  Thomas Jefferson High School for Science & Technology
GAMMA SIGMA DELTA AWARD
The Gamma Sigma Delta Award is presented by the Virginia Tech Chapter of the Honor Society of Agriculture. This award is given in recognition of excellence in research dealing with application of new technologies and/or concepts in agriculture forestry, or veterinary medicine.

Name(s) Yunyun Wang
School Roanoke Valley Governor’s School

BETHEL HIGH SCHOOL SCHOLARSHIP
Bethel High School Scholarship - This $1,000 Scholarship Award comes from the interest earned from a $10,000 endowment contributed by the students of Bethel High School, Hampton, Va., over a two year period. This award is based on both the student's presentation and paper.

Name(s) Adam Parker
School Chesapeake Bay Governor’s School

HENRY MACKENZIE ENVIRONMENTAL SCHOLARSHIP (VEE)
Henry MacKenzie Environmental Scholarship - This $5,000 scholarship will be awarded to the student whose paper evidences the most significant contribution in the field of Environmental Science dealing with the James River Basin and Chesapeake Bay. The Virginia Environmental Endowment and VJAS offer this scholarship in tribute to the outstanding and generous services of Judge Henry W. MacKenzie, Jr., one of the founding directors, who has a great interest in the James River and the Chesapeake Bay.

Name(s) Robin Thady
School Chesapeake Bay Governor’s School

FRANCES AND SYDNEY LEWIS ENVIRONMENTAL SCHOLARSHIP (VEE)
Frances and Sydney Lewis Environmental Scholarship: A $14,000 scholarship ($3,500 per year for four years) for the best effort by a student in grades 9 to 12 in the field of environmental science. This scholarship is in the name of Frances and Sydney Lewis and is given by the Virginia Environmental Endowment.

Name(s) Kelly Devens
School Roanoke Valley Governor’s School
VJAS Honor Awards

DOROTHY KNOWLTON AWARD
This award is given to the Middle School student presenting the best paper in the life sciences. It is presented in honor of Dorothy Knowlton, the former Science Coordinator of Arlington County, who was instrumental in advancing experimental design within the science curriculum.

Name(s)  Caroline Brickley
School  Tuckahoe Middle School

JOYCE K. PETERSON AWARD
This award is given to the Middle School student presenting the best paper in the physical sciences. It is presented in honor of Mrs. Joyce K. Peterson who has been an outstanding teacher in the Arlington County Schools.

Name(s)  Esha Sharma
School  George H. Moody Middle School

CATESBY JONES AWARD
This award is given to the senior student whose paper evidences the most significant contribution to science.

Name(s)  Grant Colip
School  Roanoke Valley Governor’s School
**VAS BEST RESEARCH AWARDS**

These awards are given by the Virginia Academy of Science to two papers and two alternate papers, in grades 8-11, presenting the most outstanding papers at the Research Symposium. The winners will be invited to attend the annual meeting and present their papers as a poster presentation before the American Junior Academy of Science (AJAS). The 2016 AJAS meeting will be held in February in Washington, D.C.

<table>
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<tr>
<th>Winner</th>
<th>Name(s)</th>
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<td>Valentina Lohr</td>
<td>Thomas Jefferson High School</td>
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<td></td>
<td>Shannon Miklandric</td>
<td>Mathematics &amp; Science High School at Clover Hill</td>
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</table>

**ERTLE THOMPSON MEMORIAL ENDOWMENT AWARD**

The Ertle Thompson Memorial Endowment Award is established to honor Dr. Ertle Thompson. These awards will be presented annually to the winners of this Symposium, to send them on to the annual meeting of the American Association for the Advancement of Science and the American Junior Academy of Science.

<table>
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<tr>
<td></td>
<td>Shannon Miklandric</td>
<td>Mathematics &amp; Science High School at Clover Hill</td>
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**DR. R. DEAN DECKER HONORARIUM AWARD**

The Dr. R. Dean Decker Honorarium award this year of $500 each is to go to the teacher/sponsor of the two top student winners of the AJAS trip. The monies can be used at the discretion of the recipients as long as it is related to the attendance at the AJAS meeting. Guidelines and procedures for the recipients will follow later.

<table>
<thead>
<tr>
<th>Winner</th>
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<td></td>
<td>Luanne Lohr</td>
<td>(Sponsor of Valentina Lohr)</td>
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<tr>
<td></td>
<td>Dana Johnson</td>
<td>(Sponsor of Shannon Miklandric)</td>
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</table>
VAS AWARD FOR DEDICATED SERVICE TO VJAS. The support of VAS makes all of this possible. In addition to several awards that have already been given by VAS, I would like to ask President of VAS, to present the highest service award of the Junior Academy. This award recognizes past VJAS officer or VJAS member who has continued to provide support as volunteer to the Junior Academy even after completion of high school.

Name(s) (No Award This Year)

VAS HONORARY MEMBERSHIP
This award which includes one year’s membership in the Virginia Academy of Science including a subscription to the Virginia Journal of Science is awarded for outstanding service to the Junior Academy and the VJAS Committee.

Name(s) Christopher Bolton
School

E.C.L. MILLER SCIENCE TEACHER OF THE YEAR AWARD
E.C.L. Miller Science Teacher of the Year Award is given to an outstanding science teacher.

Name(s) Barbara Bonsall Wood, Ph.D.
School Thomas Jefferson High School for Science & Technology

VJAS Officers: 2015 – 2016

Officer Alum – Kayla Holston
Editor-in-Chief & Communications Liaison - Yashadhara Varma
Secretary/Histrian – Reona Pereira
Vice President – Kevin Zahn
President – Ben Rhoades