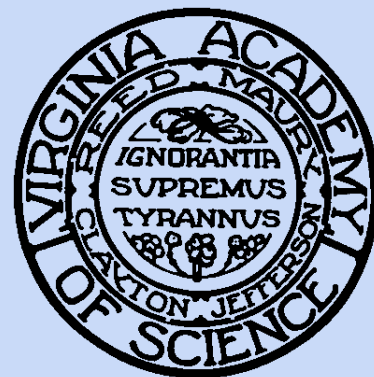
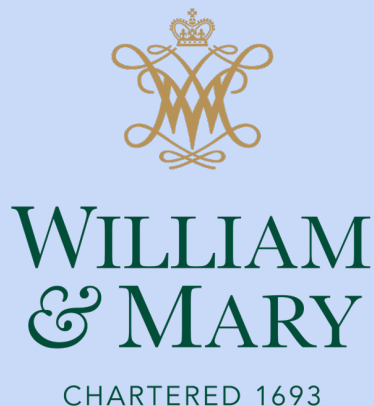


Welcome to the VJAS Awards Ceremony

May 27, 2022



The program will begin at 7 pm.



VJAS Section Awards



Middle School Section Awards



Animal & Human Science

First Place	Kasimir Rastogi	Cooper Middle School
Second Place	John Kamireddy	George H. Moody Middle School
Third Place	Priya Kumar	George H. Moody Middle School
Honorable Mention	Ishan Shah	George H. Moody Middle School
Honorable Mention	Akilesh Jonnavarapu	George H. Moody Middle School
Honorable Mention	Jeev Dalawari	George H. Moody Middle School



Chemical Sciences – Section A

First Place	Anaya Kaul	George H. Moody Middle School
Second Place	Diyaa Kirubaharan	George H. Moody Middle School
Third Place	Duchmaa Ariunbold	Kenmore Middle School
Honorable Mention	Anoushka Anand	George H. Moody Middle School
Honorable Mention	Caroline South	Dorothy Hamm Middle School
Honorable Mention	Arinan Johri	George H. Moody Middle School



Chemical Sciences – Section B

First Place	Spencer Massie	Sabot at Stony Point
Second Place	Rishab Kambham	George H. Moody Middle School
Third Place	Meredith Lloyd	George H. Moody Middle School
Honorable Mention	Myla McNair	Williamsburg Middle School
Honorable Mention	Shrihari Kalagi	George H. Moody Middle School
Honorable Mention	Manudeep Chevuru	George H. Moody Middle School



Ecology & Earth Sciences

First Place	Nadia Lach-Hab	Dorothy Hamm Middle School
Second Place	Saket Sambaraju	George H. Moody Middle School
Third Place	Anika Parashar	Hidden Valley Middle School
Honorable Mention	Geunyoung Chung	George H. Moody Middle School
Honorable Mention	Aanya Singh	George H. Moody Middle School
Honorable Mention	Sujay Suribhotla	George H. Moody Middle School



Engineering & Technology

First Place	Tess Vithoulkas	George H. Moody Middle School
Second Place	Aditya Sunilkumar	George H. Moody Middle School
Third Place	Krish Gupta	Swanson Middle School
Honorable Mention	Richard John	George H. Moody Middle School
Honorable Mention	Shivank Murthy	George H. Moody Middle School
Honorable Mention	Daniel Gabdullin	George H. Moody Middle School



Human Behavior

First Place	Sajeela Ahmad	Louise Benton Middle School
Second Place	Sesh Sudarshan	Swanson Middle School



Mathematics: Patterns & Relationships

First Place	William Lin	George H. Moody Middle School
Second Place	Patrick Jiminez	Gunston Middle School
Third Place	Henry Stievater	Swanson Middle School
Honorable Mention	Devesh Stansbury	Dorothy Hamm Middle School
Honorable Mention	Aishwarya Kapila	George H. Moody Middle School
Honorable Mention	Emma Ackleson	Swanson Middle School



Physical Science & Astronomy – Section A

First Place	Essam Shah	George H. Moody Middle School
Second Place	Nathan Yellin	Sabot at Stony Point
Third Place	Anya Mathew	George H. Moody Middle School
Honorable Mention	Emma Cai	Swanson Middle School
Honorable Mention	Kate Pietruszkiewicz	George H. Moody Middle School
Honorable Mention	Alisha Kapila	George H. Moody Middle School



Physical Science & Astronomy – Section B

First Place	Soham Mishra	George H. Moody Middle School
Second Place	Shravan Madurantakam	George H. Moody Middle School
Third Place	Sebastian Monroy	Dorothy Hamm Middle School
Honorable Mention	Riyaan Gopalakrishnan	George H. Moody Middle School
Honorable Mention	Weston Montpetit	Sabot at Stony Point
Honorable Mention	Neha Kurup	George H. Moody Middle School



Plant Science & Microbiology

First Place	Deepanshi Kumar	George H. Moody Middle School
Second Place	Vedica Chudiwale	Dorothy Hamm Middle School
Third Place	Madeleine Sicat	George H. Moody Middle School
Honorable Mention	Nilay Ravula	George H. Moody Middle School
Honorable Mention	Yan Angela Yu	George H. Moody Middle School
Honorable Mention	Sara Moussavi	Louise Benton Middle School



High School Section Awards



Botany - Section A

First Place	Mackenzie Cauthorn	Chesapeake Bay Governor's School
Second Place	Katherine Cross and Sophia Schumaecker	Roanoke Valley Governor's School
Third Place	Isla Wearmouth	Washington-Liberty High School
Honorable Mention	Emma Hemsch	Washington-Liberty High School
Honorable Mention	Alba Edsall	Washington-Liberty High School
Honorable Mention	Ciara Naful	Central Virginia Governor's School



Botany - Section B

First Place	William McGee	Chesapeake Bay Governor's School
Second Place	Tanvi Ganti	Mills Godwin High School
Third Place	Quynh Nguyen	Mills Godwin High School
Honorable Mention	Radhika Bharambe	Mills Godwin High School
Honorable Mention	Steven Appiah-Yeboah	Clover Hill High School
Honorable Mention	Seth Richards	Roanoke Valley Governor's School



Chemistry - Section A

First Place	Arjun Modi	Mills Godwin High School
Second Place	Arianna Hellman	Washington-Liberty High School
Third Place	Jodilee Irby	Central Virginia Governor's School
Honorable Mention	Gabrielle Cordero	Washington-Liberty High School
Honorable Mention	Anna Freeman	Washington-Liberty High School
Honorable Mention	Carter Neuman	Mills Godwin High School



Chemistry - Section B

First Place	Yana Shah	Mills Godwin High School
Second Place	Simran Kulkarni	Washington-Liberty High School
Third Place	Noor Long	Washington-Liberty High School
Honorable Mention	Parvathi Tadi	Mills Godwin High School
Honorable Mention	Thanvi Parupati	Mills Godwin High School



Engineering - Section A

First Place	Brock Duma	Blacksburg High School
Second Place	Carson Ray	Roanoke Valley Governor's School
Third Place	Gwyneth Liu	Mills Godwin High School
Honorable Mention	Anooshka Pendyal	Deep Run High School
Honorable Mention	Dawson Richards	Southwest Virginia Governor's School
Honorable Mention	Bailey Morris	Central Virginia Governor's School



Engineering - Section B

First Place	Solomon Galpern	Washington-Liberty High School
Second Place	Raphael Sanchez	Washington-Liberty High School
Third Place	Laasya Konidala	Mills Godwin High School
Honorable Mention	Sriharsha Sambangi	Mills Godwin High School
Honorable Mention	Leonardo Fall	Washington-Liberty High School
Honorable Mention	Madeline Powell	Central Virginia Governor's School



Environmental & Earth Science - Section A

First Place	Anju Natarajan	Collegiate School
Second Place	Ana Sanchez-Armass	Washington-Liberty High School
Third Place	Anna Grohs	Central Virginia Governor's School
Honorable Mention	Alice Zhang	Mills Godwin High School
Honorable Mention	Allison Blake	Chesapeake Bay Governor's School
Honorable Mention	Amaya Thacker	Chesapeake Bay Governor's School



Environmental & Earth Science - Section B

First Place	Audrey Johnson	Central Virginia Governor's School
Second Place	Béla Williams	Blacksburg High School
Third Place	Brenna Hendrix	Chesapeake Bay Governor's School
Honorable Mention	Ariel Wang	Central Virginia Governor's School
Honorable Mention	Arianna Fortune	Chesapeake Bay Governor's School
Honorable Mention	Austin Phan	Clover Hill High School



Environmental & Earth Science - Section C

First Place	Harriet Shapiro	Washington-Liberty High School
Second Place	Ella Indseth	Chesapeake Bay Governor's School
Third Place	Hallie Shackelford	Chesapeake Bay Governor's School
Honorable Mention	Erika Miyazaki	Blacksburg High School
Honorable Mention	Grace Abbott	Washington-Liberty High School



Environmental & Earth Science - Section D

First Place	Jackson Haught	Mills Godwin High School
Second Place	Kiersten Hannah	Chesapeake Bay Governor's School
Third Place	Joyce Xu	Mills Godwin High School
Honorable Mention	Kyle Reviello	Chesapeake Bay Governor's School
Honorable Mention	Jennine Faruque, Nawah Ahmad, and Sejal Sharma	Governor's School @ Innovation Park
Honorable Mention	Micah Johnson	Central Virginia Governor's School



Earth & Environmental Science - Section E

First Place	Violet Janes	Mills Godwin High School
Second Place	Shane Dunford	Southwest Virginia Governor's School
Third Place	Yash Saxena	Maggie L Walker Governor's School
Honorable Mention	Nathan Neblett	Central Virginia Governor's School
Honorable Mention	Shriya Deshpande	Mills Godwin High School
Honorable Mention	Treasure Brown and Walker Smith	Collegiate School



Mathematics: Theoretical & Modeling

First Place	Philip Naveen	Mills Godwin High School
Second Place	Shoshana Elgart	Blacksburg High School
Third Place	Lillian Sun	Thomas Jefferson High School for Science and Technology
Honorable Mention	Ariq Amin	Clover Hill High School
Honorable Mention	Brooke Li	Central Virginia Governor's School
Honorable Mention	Camellia Sharma	Mills Godwin High School



Medicine & Health - Section A

First Place	Christina Okenquist and Ella Bryant	Roanoke Valley Governor's School
Second Place	Aashka Shah	Maggie L. Walker Governor's School
Third Place	Ayla Lampros and Reese Redford	Roanoke Valley Governor's School
Honorable Mention	Allison Grove and Kathryn Boerckel	Washington-Liberty High School
Honorable Mention	Abigail Whiting	Washington-Liberty High School



Medicine & Health - Section B

First Place	Jacqueline Hou	Blacksburg High School
Second Place	Gabriel Ralston, Hamza Lateef, and Tony Bright	Governor's School at Innovation Park
Third Place	Emily Yang	Mills Godwin High School
Honorable Mention	Maggie Parkhurst	Roanoke Valley Governor's School
Honorable Mention	Hadessah Johnson	Chesapeake Bay Governor's School
Honorable Mention	Jaya Shah	Washington-Liberty High School



Medicine & Health - Section C

First Place	Saniya Sangle	Mills Godwin High School
Second Place	Pranav Chintkuntlawar	Mills Godwin High School
Third Place	Shiriyaa Anand	Mills Godwin High School
Honorable Mention	Zachary Schwehr	Mills Godwin High School
Honorable Mention	Sophia Jagels	Mills Godwin High School
Honorable Mention	Qiaojing Huang	Washington-Liberty High School



Microbiology & Cell Biology - Section A

First Place	Eleanor Little	Roanoke Valley Governor's School
Second Place	Caroline Fern and Lucie LeBlonde	Washington-Liberty High School
Third Place	Anusree Ponnarai Marikkannan	Mills Godwin High School
Honorable Mention	Aanandi Parashar	Hidden Valley High School
Honorable Mention	Darya Wilson	Washington-Liberty High School



Microbiology & Cell Biology - Section B

First Place	Kate Bentov	Central Virginia Governor's School
Second Place	Jacob Tiller	Central Virginia Governor's School
Third Place	Julia Brodsky	H-B Woodlawn Secondary Program
Honorable Mention	Katerina Leedy	Blacksburg High School
Honorable Mention	Hannah Loos	Mills Godwin High School
Honorable Mention	Laken Evans	Mills Godwin High School



Microbiology & Cell Biology - Section C

First Place	Monana Zhou	Mills Godwin High School
Second Place	Zain Abed	Clover Hill High School
Third Place	Nisarg Shah	Mills Godwin High School
Honorable Mention	Madison Nelson	Chesapeake Bay Governor's School
Honorable Mention	Mihir Pokhriyal	Mills Godwin High School
Honorable Mention	Timothy Patterson	Central Virginia Governor's School



Physics & Astronomy – Section A

First Place	Aryam Mhaskar	Mills Godwin High School
Second Place	Julie Bainter	Clover Hill High School
Third Place	Kalea Wen	Governor's School @ Innovation Park
Honorable Mention	Eric Midkiff	Blacksburg High School
Honorable Mention	Evan Cline	Southwest Virginia Governor's School
Honorable Mention	Kai Styrsky	Central Virginia Governor's School



Physics & Astronomy – Section B

First Place	Sam Watchman	Arlington Tech
Second Place	You Gao	Chesapeake Bay Governor's School
Third Place	Sara Lynn Loucks	Central Virginia Governor's School
Honorable Mention	Olivia Bartrum	Wakefield High School
Honorable Mention	Sebastian Amador	Central Virginia Governor's School
Honorable Mention	Sarah Chretien	Clover Hill High School



Psychology - Section A

First Place	Gabrielle Brown	Chesapeake Bay Governor's School
Second Place	Aaleya Fowler	Collegiate School
Third Place	Chloe Ro	Central Virginia Governor's School
Honorable Mention	Charlotte Maxwell	Central Virginia Governor's School
Honorable Mention	Emaline Basye	Chesapeake Bay Governor's School
Honorable Mention	Ankita Mandal	Mills Godwin High School



Psychology - Section B

First Place	Misthi Choksi	Mills Godwin High School
Second Place	Madison Hamlin	Central Virginia Governor's School
Third Place	Kaleigh Temple	Southwest Virginia Governor's School
Honorable Mention	Jackson Laughon	Central Virginia Governor's School
Honorable Mention	McKenna Condrey	Chesapeake Bay Governor's School
Honorable Mention	Yousif Shakroo	Mills Godwin High School



Statistical Analysis & Inferences

First Place	Sidhartha Basu	Deep Run High School
Second Place	Aiden Jun	Deep Run High School
Third Place	Colin Berry	Yorktown High School
Honorable Mention	William Xiao	Mills Godwin High School
Honorable Mention	Sattwik Nath	Mills Godwin High School
Honorable Mention	Nate Stevenson	Mills Godwin High School



Zoology

First Place	Raina Lateef	Charles Colgan High School
Second Place	Melody Ngo	Mills Godwin High School
Third Place	Tanish Singh	Mills Godwin High School
Honorable Mention	Nadine Greer	Clover Hill High School
Honorable Mention	Bridget Blaszak	Mills Godwin High School
Honorable Mention	Ananya Nanduru	Mills Godwin High School



FIRST PLACE CATEGORY-SECTION AWARDS

These awards are given to the best papers, as determined by either the Section Judges or, if multiple sections, by a group of Honor Judges.



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.

William McGee

Chesapeake Bay Governor's School

The Effects of Broadcast Seeding on Secale cereal Growth and Abundance



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.

Mackenzie Cauthorn

Chesapeake Bay Governor's School

Does Using the Side-dressing Method Increase the Growth and Yield of Corn?



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.

Arjun Modi

Mills Godwin High School

The Effect of Starches on Digestion Time Utilizing Salivary Amylase



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.

Yanna Shah

Mills Godwin High School

The Effect of Various Hydrophobic Substances on a Water Droplet's
Contact Angle on a Cloth Mask



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.

Eleanor Little

Roanoke Valley Governor's School

Circadian Rhythmicity of Cellular Healing



MATHEMATICS AWARD

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

Philip Naveen

Mills Godwin High School

Phish - A Novel Hyper Optimizable Activation Function



STATISTICS AWARD

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

Sidhartha Basu

Deep Run High School

Statistics Behind Identity Fraud



VABE ZOOLOGY AWARD

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

Rania Lateef

Charles Colgan High School

Dozing off with *Drosophila*: The Effect of Disrupted Circadian Rhythms
and Sleep Deprivation on Mortality, Mood, and Addiction



SPECIAL INTEREST AWARDS

Students apply for these awards and they are judged by special panels. (If any awards are not given, we did not receive any papers meeting the standards of the award.)



CANCER RESEARCH AWARDS

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

Nishorgo Sarkar

Mills Godwin High School

The Effect of Fenugreek (*Trigonella foenum-graecum*) Extract
on HCC Cell Proliferation



CANCER RESEARCH AWARDS

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

Laasya Konidala

Mills Godwin High School

Automated ROI Detection for Glioma Severity Prediction



CANCER RESEARCH AWARDS

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

Camellia Sharma

Mills Godwin High School

The Effect of Machine Learning Algorithms on Identifying Skin Cancer



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.

Kyle Reviello

Chesapeake Bay Governor's School

The Performance of a Gas Turbine Engine Using Fossil Diesel vs
Two Different Biodiesels



ROSCOE HUGHES GENETICS AWARD

The Roscoe Hughes Award is given for the best paper in the field of Genetics.

Maggie Parkhurst

Roanoke Valley Governor's School

Analysis of Differential Gene Expression in Blood Samples to
Predict Alzheimer's Disease



Gamma Sigma Delta Award

Virginia Tech Chapter of the Honor Society of Agriculture

Given to a student in recognition of excellence in research dealing with the application of new technologies and/or concepts in agriculture, forestry, or veterinary medicine

Naman Agarwal

Governor's School @ Innovation Park

A Low-Cost Deep Learning Solution for Early Detection of Lettuce Stress in Indoor Farms



DR. SMITH SHADOMY 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.

Bilguun Zolzaya

Yorktown High School

Dirty Tables: Determining the best antimicrobial metal/material
for a table in classrooms or hospitals



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.)

Corrina Peachey

Massanutten Regional Governor's School for Integrated Environmental
Science and Technology

Breaking the Climate Change Communication Barrier: The
Sonification of Speleothems



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.

Brenna Hendrix

Chesapeake Bay Governor's School

The Effect of Oyster Reef Restoration on New Recruitment to
Nearby Shoreline Habitat



VIRGINIA SEA GRANT COLLEGE PROGRAM AWARD

This award is given by the Virginia Sea Grant College Program for outstanding marine or coastal research.

Hallie Shackelford

Chesapeake Bay Governor's School

The Average Species Richness of Living Shorelines Versus
Man-Made Shorelines



SCHOLARSHIP WINNERS



BETHEL HIGH SCHOOL SCHOLARSHIP

This scholarship of \$1000 is awarded to a student (9-12 grades and not a team project) who has produced an outstanding written paper and is a first-place winner. The money is paid to the student's college or university in two equal payments during the first year. This scholarship comes from the interest earned from a \$10,000 endowment contributed to the VJAS by the students of Bethel High School, Hampton, Virginia.

Sam Watchman

Arlington Tech

Mapping the Milky Way: Observations of Galactic Structure from the
21 cm Hydrogen Line



Scholarships from the Virginia Environmental Endowment





HENRY W. 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.



Ella Indseth

Chesapeake Bay Governor's School

Bioremediation of Fish Polluted Water by the Macroalgae *Chaetomorpha linum*



FRANCES AND SYDNEY LEWIS ENVIRONMENTAL SCHOLARSHIP (VEE)

Frances and Sydney Lewis Environmental Scholarship: A \$5,000 scholarship 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.



Anna Grohs

Central Virginia Governor's School

Comparing Polystyrene Adhesive to Commercial Glues



VJAS Honor Awards Middle School

These are the highest awards that the Virginia Junior Academy of Science presents. Special panels of honor judges evaluate the projects and determine the awards.



DOROTHY KNOWLTON AWARD

Given to the middle school student or team presenting the best project in the life and earth sciences. This is given in honor of Dorothy Knowlton, the former Science Coordinator of Arlington County, who was instrumental in advancing experimental design with the science curriculum.

Deepanshi Kumar

George H Moody Middle School

The Effect of Ginger (*Zingiber officinale*) as Fertilizer on Bean
(*Phaseolus vulgaris*) Plant Height Growth



JOYCE K. PETERSON AWARD

Given to the middle school student or team presenting the best project in the physical sciences. This is given in honor of Joyce Peterson who has been an outstanding teacher in the Arlington County Schools.

Tess Vithoulkas

George H Moody Middle School

The Effect of Different Condenser Materials on the Production
of Water with a Solar Still



OUTSTANDING EIGHTH GRADE RESEARCH PROJECT, Grade 8

Given to the eighth grade student or team presenting the best project.

Tess Vithoulikas

George H Moody Middle School

The Effect of Different Condenser Materials on the Production of
Water with a Solar Still



VJAS GRAND MIDDLE SCHOOL AWARD, Grades 7-8

Given to the middle school student or team presenting the best project.

Tess Vithoulkas

George H Moody Middle School

The Effect of Different Condenser Materials on the Production
of Water with a Solar Still



VJAS Honor Awards High School

These are the highest awards that the Virginia Junior Academy of Science presents. Special panels of honor judges evaluate the projects and determine the awards.



JONES/ELLETT AWARD

Given to the individual senior (12th grade) student presenting the best project.

Brock Duma

Blacksburg High School

An Optimized Whitewater Helmet Prototype Designed Using a
Newly Developed Helmet STAR Evaluation System and 3D
Printing



VJAS GRAND HIGH SCHOOL AWARD, Grades 9-12

The top research project by an individual or team of students in grades 9-12.

Brock Duma

Blacksburg High School

An Optimized Whitewater Helmet Prototype Designed Using a
Newly Developed Helmet STAR Evaluation System and 3D
Printing



VJAS Delegates to AJAS, Grades 9-11



VJAS Delegates to AJAS

A panel of honor judges selects the honorees from among the students (grades 9-11) who won first place in a senior high section.

Attendance at American Junior Academy of Science (AJAS): Winners are given a certificate and an invitation to represent VJAS at the annual meeting of the American Junior Academy of Science (AJAS) and to present at a poster session. Students who represent the Commonwealth of Virginia are required to attend all activities and house with the students (if applicable). When VJAS/VAS finances permit, cash awards are given to each individual or a team to help defray expenses. The cash award will be the same for an individual or team, so if a team is selected they will need to determine who will represent the team, or provide local funding for the other team members. The top four papers are ranked by the judges and VAS/VJAS will provide cash awards in this order when VAS/VJAS finances permit. VAS/VJAS will attempt to fully cover the expenses of the winners followed by the alternates.



VJAS Delegates to AJAS

THE WINNERS ARE

First Delegate

Sam Watchman

Arlington Tech

Mapping the Milky Way: Observations of Galactic Structure from the 21cm Hydrogen Line

Second Delegate

Philip Naveen

Mills Godwin High School

Phish - A Novel Hyper Optimizable Activation Function



VJAS Delegates to AJAS

THE ALTERNATES ARE

Harriet Shapiro

Washington-Liberty High School

The Effect of Urban Heat Island Mitigation Strategy on Surface and Atmospheric Temperature

Monoma Zhou

Mills Godwin High School

Live Cell Imaging of the Interactions between an Acetylase and Binding Domain



Ertle Thompson Memorial Endowment Award

The Ertle Thompson Memorial Endowment Award is established to honor Dr. Ertle Thompson, a long-term leader of VJAS and a former president of the VAS. When financial circumstances allow, these awards will be presented annually to the winners selected as the VJAS Delegates to the AJAS. The purpose of the funds is to help support attendance at the annual meeting of the American Association for the Advancement of Science and the American Junior Academy of Science.

Sam Watchman
Arlington Tech

Philip Naveen
Mills Godwin High School



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.

Tinequa Reese
Arlington Tech

Dana Delano
Mills Godwin High School



AWARDS FOR SPONSORS



THE FRANKLIN D. KIZER DISTINGUISHED SERVICE AWARD

This award recognizes the exceptional contributions to VJAS of a STEM teacher.

Criteria:

- The recipient will be a teacher who has contributed to the VJAS by sponsoring student research projects, serving as a reader, judge, and/or member of the VJAS Committee.
- The teacher will be nominated and chosen by the VJAS Committee.
- The award of up to \$500 will be used for professional development, and the recipient will propose a professional development activity to the Director of the VJAS. Examples of acceptable proposals include attendance to a professional meeting, tuition for a science/math course, or software to enhance their teaching effectiveness.



THE FRANKLIN D. KIZER DISTINGUISHED SERVICE AWARD

The winner of the Franklin D. Kizer
Distinguished Service Award is:

Maria Klein

Clover Hill High School



THE FRANKLIN D. KIZER SCIENCE TEACHER OF TOMORROW AWARD

This award recognizes an outstanding Virginia science teacher and provides an opportunity for professional development through attendance at the annual VAST meeting.

- The recipient is a teacher with a maximum of 5 years of teaching experience.
- The recipient will have sponsored student participation at the VJAS annual meeting.
- The recipient is nominated and chosen by the VJAS Committee.
- This award will be used to support the professional development of the recipient by providing the funds needed to attend the annual VAST meeting. The maximum amount of the award is \$500.



THE FRANKLIN D. KIZER SCIENCE TEACHER OF TOMORROW AWARD

The winner of the Franklin D. Kizer Science
Teacher of Tomorrow Award is:

Sandra Marr

Collegiate School



OUTSTANDING SERVICE AWARDS



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.

Harrish Ganesh



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, this award recognizes a past VJAS officer or a VJAS member who has continued to provide support as a volunteer to the Junior Academy even after completion of high school.

Kayla Holston



VJAS DISTINGUISHED SERVICE AWARD

A special certificate is presented to a person for exceptionally outstanding service to the VJAS and public recognition is given at the Research Symposium. This is the most prestigious award that the VJAS Committee gives.

Dr. Tara Lateef



VJAS OFFICERS 2022-2023

Co-Presidents	Laasya Konidala Mills E. Godwin High School Arman Lateef Governor's School@ Innovation Park
Vice - President	Charlotte Cunningham Washington-Liberty High School
Secretary	Yash Saxena Maggie L. Walker Governor's School
Communications Liaison	Nitya Kumar Douglas S. Freeman High School
Editors-in-Chief VJAS VOICE	Jacob Tiller Central Virginia Governor's School Rania Lateef Charles Colgan High School
VJAS Student Advisory Committee	Lynn Tao, Sriyutha Morishetty, Harris Ilyas, Justin Kim



Have a great summer!
Check back in September at
www.vjas.org