

**VIRGINIA JUNIOR ACADEMY OF SCIENCE
2003 AWARD WINNERS**

Presented at The University of Virginia, Charlottesville, VA
May 28, 2003

AGRICULTURAL AND ANIMAL SCIENCE

- Honorable Mention: MELISSA F. BEARDEN
George H. Moody Middle School
- Honorable Mention: VICTORIA M.N. CHILDRESS
Mills E. Godwin High School
- Honorable Mention: MATTHEW C. GREEN
Ocean Lakes High School
- Third Place: WREN M. BLACKWELL
Atlee High School
- Second Place: NIRAJA SATHYANARAYANAN
Mills E. Godwin High School
- First Place: ZACHARY J. CAPPELLO
Lee-Davis High School

ANIMAL BEHAVIOR (ETHOLOGY)

- Honorable Mention: CRYSTAL L. CORZINE
Central Shenandoah Valley Governor's School
- Honorable Mention: ANNE R. GODDARD
Tuckahoe Middle School
- Honorable Mention: ELIZABETH A JAMES
Washington-Lee High School
- Third Place: MORGAN E. PIERCE
George H. Moody Middle School
- Second Place: ANTHONY J. HENDRICKS
Mills E. Godwin High School
- First Place: LINDSAY N. RAMEY
Central Virginia Governor's School

BOTANY A

- Honorable Mention: CHRISTIE A. ALSTON
Lloyd C. Bird High School
- Honorable Mention: BRAXTON J. COX
Southwest Virginia Governor's School
- Honorable Mention: CHRISTY E. DARLING
Chickahominy Middle School
- Third Place: MATTHEW H. BRUCH
Tuckahoe Middle School

Second Place: MARY S. AMBLER
Patrick Henry High School
First Place: CHRISTINA N. ARMENGOL
Bishop Denis J. O'Connell High School

BOTANY B

Honorable Mention: SARAH E. EARLES
Chickahominy Middle School
Honorable Mention: ADOM GETACHEW
Washington-Lee High School
Honorable Mention: MICHELLE S. KIM
Bishop Denis J. O'Connell High School
Third Place: JAMES P. IRBY
Tuckahoe Middle School
Second Place: JUSTIN T. LITZ
Chickahominy Middle School
First Place: KAY N. GOWAN
Atlee High School

BOTANY C

Honorable Mention: RICHARD W. REESE
Tuckahoe Middle School
Honorable Mention: SHARAD SHANKAR
Mills E. Godwin High School
Honorable Mention: MARK L. YOO
Mills E. Godwin High School
Third Place: MEGHAN A. WIECKOWSKI
Atlee High School
Second Place: XOTCHITL S. VASQUEZ
Bishop Denis J. O'Connell High School
First Place: EMILY C. SMITH
Southwest Virginia Governor's School

CHEMISTRY A

Honorable Mention: CASEY P. BECKNER
Maggie L. Walker Governor's School
Honorable Mention: JONATHAN C. CABALLERO
Bishop Denis J. O'Connell High School
Honorable Mention: RANDI R. CHEA, MICHELLE K. WALKER, AND
LUWAM BERHANE
Wakefield High School
Third Place: LARISSA P. GIBBS AND AMELIA C.J. MUTTER
Swanson Middle School
Second Place: JONATHAN S. CHAN
Mathematics and Science High School at Clover Hill

First Place: STEPHANIE A. GOELLNER
Lee-Davis High School

CHEMISTRY B

Honorable Mention: PETER N. GURNEY
Swanson Middle School

Honorable Mention: WILLIAM H. HENLEY
Goochland High School

Honorable Mention: LAUREN M. LEFTWICH
Heritage High School

Third Place: DAVID L. MUFFLEY AND BILL N. PETERS
Washington-Lee High School

Second Place: CAITLIN N. HOWARTH
Washington-Lee High School

First Place: CASIDHE H. HORAN
Mills E. Godwin High School

CHEMISTRY C

Honorable Mention: ELIZABETH L. SUTPHIN
Tuckahoe Middle School

Honorable Mention: KARSTEN S. WITT
Gildersleeve Middle School

Honorable Mention: M. HUNTER WITT
Gildersleeve Middle School

Third Place: SARA J. RIPPEL
James River High School

Second Place: KIM YEONG YAMAMOTO
Mills E. Godwin High School

First Place: ARJUN SREEKUMAR
Swanson Middle School

COMPUTER SCIENCE

Honorable Mention: WARREN A. GRUBBS
Lloyd C. Bird High School

Honorable Mention: KENDALL S. MERRIMAN AND
JONATHAN M. KOMYATHY
Ocean Lakes High School

Honorable Mention: TERRY J. STEDMAN
Hayfield High School

Third Place: KEVIN C. TURNER
Bishop Denis J. O'Connell High School

Second Place: JESSICA L. BASHKOFF
Menchville High School

First Place: WASEEM S. DAHER AND LOUISE A. MONTGOMERY
Yorktown High School

CONSUMER SCIENCE A

- Honorable Mention: KYLE T. AKERS
Chickahominy Middle School
- Honorable Mention: GREGORY A. CRAPANZANO AND
NICK R. ROTHENBERG
James River High School
- Honorable Mention: LUKE R. GERGOUDIS
Harry F. Byrd Middle School
- Third Place: ERIC P. BURCHAM
Maggie L. Walker Governor's School
- Second Place: MONICA N. GRAY
Central Shenandoah Valley Governor's School
- First Place: CHRIS L. BOSWELL
Maggie L. Walker Governor's School

CONSUMER SCIENCE B

- Honorable Mention: ASHLEIGH M. HUGGARD
Central Shenandoah Valley Governor's School
- Honorable Mention: SAMANTHA M. MAEDERER AND
LAUREN A. O'NEILL
Atlee High School
- Honorable Mention: GEORGE A. OLEY
Tuckahoe Middle School
- Third Place: DAVID L. HAYES
James River High School
- Second Place: ANDREW O. JAGNARAIN AND MICHAEL Z. SNOW
Mills E. Godwin High School
- First Place: ELIZABETH J. HUTSELL
Williamsburg Middle School

CONSUMER SCIENCE C

- Honorable Mention: KELSEY A. ROOKS
Harry F. Byrd Middle School
- Honorable Mention: WILLIAM H. TOWNSEND AND IAN M. NEELY
Deep Run High School
- Third Place: JAMES A. SWEET
Roanoke Valley Governor's School
- Second Place: JARROD A. THOMAS
Central Shenandoah Valley Governor's School
- First Place: SARA M. WARREN
Maggie L. Walker Governor's School

EARTH AND SPACE SCIENCE

- Honorable Mention: TREVOR R. BUCKLEY
Maggie L. Walker Governor's School

- Honorable Mention: KRISTIN E. PANKE AND LAURA E. CHEEK
Yorktown High School
- Honorable Mention: YOLANDA L. ROBERTS AND KATIE L. CAMPBELL
Mathematics and Science High School at Clover Hill
- Third Place: GREGORY T. MINTON
Roanoke Valley Governor's School
- Second Place: TYLER S. SPENCER
Central Shenandoah Valley Governor's School
- First Place: SARAH M. SOUTHARD
Central Shenandoah Valley Governor's School

ENGINEERING A

- Honorable Mention: RILEY R. ARTHUR
George H. Moody Middle School
- Honorable Mention: DANIEL E. CURACA-MALITO
Williamsburg Middle School
- Honorable Mention: BETH R. ENGLAND
Williamsburg Middle School
- Third Place: INN-INN CHEN
Blacksburg High School
- Second Place :PETER ELBAOR AND KELLY M. O'BRIANT
Yorktown High School
- First Place: MICHAEL J. FRASER
Yorktown High School

ENGINEERING B

- Honorable Mention: GALEN D. MALY
Yorktown High School
- Honorable Mention: ANNE K. MINOFF
Williamsburg Middle School
- Honorable Mention: KAITLYN E. WARK
Chickahominy Middle School
- Third Place: YVONNE P. NG
Blacksburg High School
- Second Place: MICHAEL J. RUTKOWSKI
Chesapeake Bay Governor's School
- First Place: JONATHAN H. YOKE
Mathematics and Science High School at Clover Hill

- ENVIRONMENTAL SCIENCE A
- Honorable Mention: JAIME N. CAMPBELL
Central Virginia Governor's School
- Honorable Mention: MAIRIN L. CIPOLLA
Maggie L. Walker Governor's School
- Honorable Mention: PHILIP W. GIANFORTONI
Deep Run High School
- Third Place: KARA L. CAPELLI
Atlee High School
- Second Place: JOSEPH A. CARUSO
Stafford High School
- First Place: JEAN M. FOLSOM
Yorktown High School
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- ENVIRONMENTAL SCIENCE B
- Honorable Mention: SARAH E. KALICHMAN
Mills E. Godwin High School
- Honorable Mention: SEAN C. KITCHEN
Tuckahoe Middle School
- Honorable Mention: CASEY L. MCCRACKEN
Central Shenandoah Valley Governor's School
- Third Place: JOANN E. KELLY
Gloucester High School
- Second Place: ISRAEL MARQUES
Roanoke Valley Governor's School
- First Place: DAVID A. MARLLES
Mills E. Godwin High School
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- ENVIRONMENTAL SCIENCE C
- Honorable Mention: RAHUL R. MENON
George H. Moody Middle School
- Honorable Mention: KRISTEENA L. RAY
Mills E. Godwin High School
- Honorable Mention: GREGORY H. RICE
Roanoke Valley Governor's School
- Third Place: KATIE A. PUCKETT
Mathematics and Science High School at Clover Hill
- Second Place: DOAN M. ON AND JONATHAN M. SOTOSKY
Ocean Lakes High School
- First Place: KELLYN P. MONTGOMERY
Southwest Virginia Governor's School

- ENVIRONMENTAL SCIENCE D
- Honorable Mention: ANDREW P. SCHUKMAN
Mills E. Godwin High School
- Honorable Mention: JACQUELINE G. WHEELER
Mathematics and Science High School at Clover Hill
- Honorable Mention: LAURA L. WOOLLEY
Central Virginia Governor's School
- Third Place: RACHEL S. SMITH
Mathematics and Science High School at Clover Hill
- Second Place: PETER W. SIY
Atlee High School
- First Place: KATHERINE O. SMITH
Yorktown High School

GENETICS AND CELLULAR BIOLOGY

- Honorable Mention: DEEPA IYER
Mills E. Godwin High School
- Honorable Mention: KEVIN M. KEITHLEY
Bishop Denis J. O'Connell High School
- Honorable Mention: XAVIER W. BELCHER
Huguenot High School
- Third Place: KONSTANTIN Y. LANTSMAN
Maggie L. Walker Governor's School
- Second Place: DANIEL B. FISHER
Lee-Davis High School
- First Place: MARISSA R. KESSLER
Mills E. Godwin High School

MATHEMATICS

- Honorable Mention: ELIZABETH K. TULEY
Mathematics and Science High School at Clover Hill
- Honorable Mention: RANDALL C. REED, JR. AND JEFFREY S. SHUTTERLY
Mills E. Godwin High School
- Third Place: LING-LUN BOB HSIA
Mills E. Godwin High School
- Second Place: NAMRATA VERMA
New Horizons Governor's School
- First Place: BRIAN T. RICE
Southwest Virginia Governor's School

MEDICINE AND HEALTH A

- Honorable Mention: KELSEY K. AUNE AND WILLIAM R. HIGGINS
Deep Run High School
- Honorable Mention: JENNY F. EISENBERG AND CASEY M. EISENBERG
James River High School
- Honorable Mention: ERIN M. FOX
Menchville High School

- Third Place: MARGARET M. GILSTRAP
Central Shenandoah Valley Governor's School
- Second Place: REVEÉ A BARBOUR
Central Virginia Governor's School
- First Place: CARRIE A. DULANEY
H.B. Woodlawn

MEDICINE AND HEALTH B

- Honorable Mention: SWATI MISHRA
Mills E. Godwin High School
- Honorable Mention: SARAH M. MYERS
Yorktown High School
- Honorable Mention: JULIA A. NICULESCU
Mathematics and Science High School at Clover Hill
- Third Place: MICHAEL T. HAGEMANN
George H. Moody Middle School
- Second Place: ENNA B. MCALLISTER
Central Shenandoah Valley Governor's School
- First Place: BLAINE F. MORRISS
Central Shenandoah Valley Governor's School

MEDICINE AND HEALTH C

- Honorable Mention: GAURI R. RAVAL
Mills E. Godwin High School
- Honorable Mention: SURAVI SIRCAR
Mills E. Godwin High School
- Honorable Mention: RACHEL E. WHEELER
George H. Moody Middle School
- Third Place: KUMKUM SARKAR
Roanoke Valley Governor's School
- Second Place: LAUREN E. TRAVIS
Southwest Virginia Governor's School
- First Place: KELLY M. ZAHALKA
Maggie L. Walker Governor's School

MICROBIOLOGY A

- Honorable Mention: CAREY C. ARCHER
Mills E. Godwin High School
- Honorable Mention: HEATHER R. BURDETTE
Roanoke Valley Governor's School
- Honorable Mention: MICHAEL A. CLARK
Central Virginia Governor's School
- Third Place: MARY C. CONKRIGHT
James River High School
- Second Place: MELANIE E. FLAGG
J.R. Tucker High School
- First Place: ERIC L. HARSHFIELD
Roanoke Valley Governor's School

MICROBIOLOGY B

- Honorable Mention: ALEXANDER P. KOSTURA
Roanoke Valley Governor's School
- Honorable Mention: MICHAEL R. LANDIS
Atlee High School
- Honorable Mention: RAYMOND L. PALMER, JR.
Varina High School
- Third Place: JANANI SUNDAR
Mills E. Godwin High School
- Second Place: GAIL L. SENATORE
Mathematics and Science High School at Clover Hill
- First Place: JASMINE C. MAJOR
Hermitage High School

PHYSICS A

- Honorable Mention: NIKOLAI A. EROSHENKO
Mills E. Godwin High School
- Honorable Mention: BENJAMIN D. GORDON
Central Virginia Governor's School
- Honorable Mention: GREGORY I. HELLENGA
Tuckahoe Middle School
- Third Place: BENJAMIN A. CHARLES
James River High School
- Third Place: JACOB M. BUCK
Gildersleeve Middle School
- Second Place: CHRISTY E. CLAPP
Lloyd C. Bird High School
- First Place: DIANA M. FORREST
Bishop Denis J. O'Connell High School

PHYSICS B

- Honorable Mention: DEEPA IYER
Mills E. Godwin High School
- Honorable Mention: ERIC C. LAUER
Mills E. Godwin High School
- Honorable Mention: JUSTIN B. LUCAS
Central Shenandoah Valley Governor's School
- Third Place: SHANE M. HODSON
Homer L. Hines Middle School
- Second Place: HEIDI A. OWENS
Virginia Air and Space Center
- First Place: TOM A.. HENNIG
Bishop Denis J. O'Connell High School

PHYSICS C

- Honorable Mention: DANIEL J. PETERSON
Central Shenandoah Valley Governor's School
- Honorable Mention: MATTHEW R. VITTON AND ANDREA K. DURAN
Yorktown High School
- Third Place: ANMAR SIOCHI
Homer L. Hines Middle School
- Second Place: BARBARA J. WARD
Mathematics and Science High School at Clover Hill
- First Place: THOMAS H. RUSCHER
Roanoke Valley Governor's School

PSYCHOLOGY - GENERAL

- Honorable Mention: JORDAN L. COINER
Central Shenandoah Valley Governor's School
- Honorable Mention: ALLISON A. DONNELLY
Central Shenandoah Valley Governor's School
- Honorable Mention: YADEL T. MULUGETA
J.R. Tucker High School
- Third Place: MICHAEL B. JONES
Maggie L. Walker Governor's School
- Second Place: RACHEL P. CRUMP
Central Shenandoah Valley Governor's School
- First Place: JULIA I. RENEHAN AND KATIE N. SAMAY
Yorktown High School

PSYCHOLOGY - LEARNING & PERCEPTION A

- Honorable Mention: ALEX E. FERRARI AND MICHAEL B. MCCABE
Yorktown High School
- Third Place: MAYA I. MACKRANDILAL AND
MARGARET B. LINDSAY
Yorktown High School
- Second Place: RACHEL M. BURNETT
J.R. Tucker High School
- First Place: NICHOLAS A. BUTLER
Central Virginia Governor's School

PSYCHOLOGY - LEARNING & PERCEPTION B

- Honorable Mention: MATT J. PELAIS AND JENNIFER A. PRICE
Deep Run High School
- Honorable Mention: ASHLEE E. SAWYER
Maggie L. Walker Governor's School
- Honorable Mention: RACHEL E. STOLLER
Tuckahoe Middle School

- Third Place: SAMANTHA K. MOWEN
Central Shenandoah Valley Governor's School
- Second Place: CHELSEA E. VAN MANEN
Maggie L. Walker Governor's School
- First Place: CHRISTINE T. NGUYEN
J.R. Tucker High School

PSYCHOLOGY - SOCIAL

- Honorable Mention: AMY E. JACOBS
Blacksburg High School
- Honorable Mention: CHIDI J. ONYESO
Mills E. Godwin High School
- Honorable Mention: RITCHIE C. VAUGHAN
Maggie L. Walker Governor's School
- Third Place: DANIEL K. LAUTZENHEISER
Maggie L. Walker Governor's School
- Second Place: EMILY K. SCHAFER
Tuckahoe Middle School
- First Place: JOHN S. NEWMAN
Yorktown High School

STATISTICS

- Honorable Mention: ELEANOR M. SAXTON
Yorktown High School
- Third Place: ERICA L. KUHLIK AND JACQUELINE A. GERALNICK
Yorktown High School
- Second Place: VICTOR D. FEDOROV
Mills E. Godwin High School
- First Place: CHRISTIINE M. BOEHM
Washington-Lee High School

ZOOLOGY

- Honorable Mention: DAVID A. GIBBS
H.B. Woodlawn
- Honorable Mention: KRISTA L. ROOP
Mills E. Godwin High School
- Honorable Mention: LAURA L. SPRAGUE
Tuckahoe Middle School
- Third Place: BRITTANY R. CANON AND MATT G. HASS
Deep Run High School
- Second Place: LAURA S. SHANKMAN
Yorktown High School
- First Place: ERIN B. STRANG
Lee-Davis High School

SPECIAL AWARDS

Botany Section Award, given by the Botany Section of the VAS, to the best paper on abotanical subject. (\$150.00)

EMILY SMITH
Southwest Virginia Governor's School

VJAS Neuroscience Awards supported by the Virginia Neurological Society and the Auxiliary of the Virginia Neurological Society are given to up to four out-standing papers in the field of neuroscience (\$100).

NAMRATA VERMA
New Horizons Governor's School

Speleological Society Award given to the best paper addressing karst or topics related to speleology given by the Richmond Area Speleological Society. (\$200.00)

KRISTIN E. PANKE AND LAURA E. CHEEK
Yorktown High School

Mathematics Award for the paper that evidences the most significant contribution in the field of Mathematics. (\$200.00)

BRIAN RICE
Southwest Virginia Governor's School

Statistics Award for the paper that evidences the most significant contribution in the field of Statistics (\$200.00)

CHRISTINE BOEHM
Washington-Lee High School

Smith Shadomy Infectious Disease Award in honor and memory of Dr. Smith Shadomy given by the Virginia Chapter of the National Foundation of Infectious Diseases. (\$50.00)

PETER HOGGE
Gloucester High School

Roscoe Hughes Award for the best paper in the field of Cellular Biology. (\$150.00)

XAVIER BELCHER
Huguenot High School

Rodney C. Berry Chemistry Award for the paper that evidences the most significant contribution in the field of chemistry. (\$200.00)

STEPHANIE A. GOELLNER
Lee-Davis High School

The Dr. and Mrs. Preston H. Leake Award in Applied Chemistry will be 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. (\$150.00)

PETER W. SIY
Atlee High School

Russell J. Rowlett Award for the Best Research Paper of the Year. (\$300.00)

MARISSA KESSLER
Mills E. Godwin High School

The Virginia Psychological Foundation Meritorious Research Awards recognize outstanding presentations of research in the various fields of psychology. Presented by James P. O'Brien. (\$100 each for 4 winners)

JULIA RENEHAN AND KATIE SAMAY
Yorktown High School
NICHOLAS A. BUTLER
Central Virginia Governor's School
CHRISTINE NGUYEN
J.R. Tucker High School
JOHN S. NEWMAN
Yorktown High School

Virginia Sea Grant College Program Award is given by the Virginia Sea Grant College Program for outstanding marine or coastal research. (\$50.00)

JOANN KELLY
Gloucester High School

American Cancer Society Award - This award is to recognize outstanding science papers related to cancer research. A certificate to each and to 1st place - \$100, 2nd place \$75, 3rd place \$50, and honorable mention \$25. There will be a ribbon for each winner. These awards are provided by the American Cancer Society (Virginia Council). These awards were presented by Richard Brandt, American Cancer Society.

Honorable Mention	KUMKUM SARKAR Roanoke Valley Governor's School
Third Place	GAURI RAVAL Mills E. Godwin High School
Second Place	JOSEPH A. CARUSO Stafford High School
First Place	KONSTANTIN Y. LANTSMAN Maggie L. Walker Governor's School

The Gamma Sigma Delta Award (Agriculture). Presented by the VPI & SU Chapter of the Honor Society of Agriculture. This award is presented in recognition of excellence in research dealing with application of new technologies and/or concepts in agriculture forestry, or veterinary medicine. (\$100.00)

ZACHARY CAPPELLO
Lee-Davis High School

Dominion - W.W. Berry Award. This award is given by Dominion Virginia Power in honor of Mr. W. W. Berry who was a past Chairman of the Board of VA Power. This award of a \$500.00 Savings Bond will be presented to the best engineering paper.

MICHAEL J. FRASER
Yorktown High School

The Joyce K. Peterson Award is presented for the outstanding paper by a middle school student. It is presented in honor of Mrs. Joyce K. Peterson who has been an outstanding teacher in the Arlington County Schools. (\$50)

RAHUL R. MENON
George H. Moody Middle School

The Ann M. Hancock Award - This award is given to the best paper in genetics and is given in memory of Anne 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. (\$100)

MARISSA KESSLER
Mills E. Godwin High School

Dorothy Knowlton Award - This award is given to the best paper in the Consumer Science section(s) and is given in honor of Dorothy Knowlton, former Science Coordinator of Arlington County Schools. (\$50)

SARA WARREN
Maggie L. Walker Governor's School

VABE Award - This award is presented by the Virginia Association of Biology Educators and is given for outstanding research in the Zoology section(s). (\$50 for each) This award will be presented by Marion Lobstein.

ERIN B. STRANG
Lee-Davis High School

Trip to AJAS - AAAS Meeting for two students and two alternates for presenting outstanding papers. The 2004 meeting will be held in Feb. in Seattle.

Winner: CARRIE A. DULANEY

H.B. Woodlawn

Winner:

BRIAN T. RICE

Southwest Virginia Governor's School

Alternate:

MICHAEL J. FRASER

Yorktown High School

Alternate:

ERIN B. STRANG

Lee-Davis High School

Honorary Membership - AAAS given to two students.

ERIC NIELSEN

Maggie L. Walker Governor's School

SURAVI SIRCAR

Mills E. Godwin High School

Honorary Membership - VAS given to a student.

BOB HSIA

Mills E. Godwin High School

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 students presentation and paper.

CHRISTINE NGUYEN

J.R. Tucker High School

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.

JEAN FOLSOM

Yorktown High School

E.C.L. Miller Science Teacher of the Year Award is given to an outstanding science teacher. An all-expense-paid trip to next year's AAAS which will be in Seattle.

MELANIE BURCH

Gildersleeve Middle School

VJAS Distinguished Service Award, most prestigious award given by the VJAS, is presented to a person for exceptionally outstanding service to the VJAS. This award was presented by Ertle Thompson.

ARTHUR W. BURKE, JR.

NEW OFFICERS

Secretary - Namrata Verma, New Horizons Governor's School

Vice President - Zachary Capello, Lee-Davis High School

President - Ashley Morgan, Atlee High School