

VIRGINIA JUNIOR ACADEMY OF SCIENCEAWARDS
1999 ANNUAL MEETING

AGRICULTURAL AND ANIMAL SCIENCE

Honorable Mention: PAUL T. GODFREY, WEI-HAN LAI
Blacksburg High School

Third Place: SOPHIA E. KELLY, LAUREN M. HOPPER
Washington-Lee High School

Second Place: JOHN M. WILLIAMS
Norfolk Academy

First Place: CAROLINE M. JETT
Atlee High School

ANIMAL BEHAVIOR (ETHOLOGY)

Honorable Mention: CAPITOLA ANDERSON
Yorktown High School

Honorable Mention: LINDEN E. FOOS
Gloucester High School

Honorable Mention: KENNETH R. MULLER, II
Goochland High School

Third Place: MEREDITH L. COCKS
Williamsburg Middle School

Second Place: NIRNIMESH PANDEY
New Horizons Governor's School

First Place: KATHERINE S. FLYNN, MICHELLE E. KUNEC
Yorktown High School

BOTANY 'A'

Honorable Mention: LAURIE A. DUNCAN
Governor's School for Gov't & Int'l Studies

Honorable Mention: AMANDA S. FEHR
Southwest Virginia Governor's School

Honorable Mention: JACQUELINE L. GREEN
Central Virginia Governor's School

Third Place: PETER L. GRIMALDI
Yorktown High School

Second Place: CRYSTAL E. DUNN
Gloucester High School

First Place: KATHERINE M. FOSTER
Yorktown High School

BOTANY 'B'
Honorable Mention: DAVID L. KIRTLEY
Manchester Middle School

Honorable Mention: KATHERINE LEDINH
Washington-Lee High School

Honorable Mention: WILLIAM B. NEWBORG
Gloucester High School

Third Place: JENNIFER M. LEGGETTE
Cave Spring High School

Second Place: COURTNEY L. OLSON
Southwest Virginia Governor's School

First Place: MELISSA L. POLLOCK
Gloucester High School

BOTANY 'C'
Honorable Mention: AMY M. PUNATAR
Central Virginia Governor's School

Honorable Mention: LAUREN A. ROSS
Menchville High School

Honorable Mention: MATTHEW B. SANDRIDGE
Chickahominy Middle School

Third Place: LAURA M. ROSS
Yorktown High School

Second Place: LESLIE A. SMITH
Gloucester High School

First Place: AJITA SHUKLA
Thomas Jefferson HS for Science & Tech

BOTANY 'D'
Honorable Mention: PETER C. STUART
Swanson Middle School

Honorable Mention: ANNA P. TSUCHITANI, ADRIANE K. MILLER
Yorktown High School

Honorable Mention: PAUL H. WARNER
Central Virginia Governor's School

Third Place: SUSAN D. THEBERGE
Gloucester High School

Second Place: JAMES M. WHITE
James River High School

First Place: ELEANOR R. WHITLEY
Central Virginia Governor's School

CHEMISTRY 'A'
Honorable Mention: CHRISTINE M. BOBAL
Williamsburg Middle School

Honorable Mention: RYAN L. CARTER
Swanson Middle School

Third Place: JOANNE M. CUNNINGHAM
Atlee High School

Second Place: WILLIAM E. BRENZOVIK, JR.
Atlee High School

First Place: LEAH B. CASABIANCA
Thomas Jefferson HS for Science & Tech

CHEMISTRY 'B'
Honorable Mention: THOMAS E. DICARLO
Cave Spring High School

Honorable Mention: AMANDA R. ENGLAND
Mills E. Godwin High School

Honorable Mention: REBECCA M. KALLEM
Yorktown High School

Third Place: JACQUELINE A. HORAK
Chesterfield Co Mathematics and Science HS

Second Place: MAURICE S. FISHER, MICHAEL B. BAKER
Atlee High School

First Place: BASHAR J. KACHACHI
Thomas Jefferson HS for Science & Tech

CHEMISTRY 'C'

Honorable Mention: MICHELLE MINASKANIAN
Mills E. Godwin High School

Honorable Mention: RICHARD M. QUALTERS
Bishop O'Connell High School

Honorable Mention: CAROLINE J. RENKIN
Chesterfield Co Mathematics and Science HS

Third Place: DAVID J. RO
Governor's School for Gov't & Int'l Studies

Second Place: LARA E. PAWLOW
Thomas Jefferson HS for Science & Tech

First Place: MARY M. ROZENMAN
Thomas Jefferson HS for Science & Tech

CHEMISTRY 'D'

Honorable Mention: DANIEL R. SHERRIER
Atlee High School

Honorable Mention: BRYAN A. WADE
Atlee High School

Honorable Mention: SUSAN T. WALLACE
Tuckahoe Middle School

Third Place: ANDREW G. TAUBE
Thomas Jefferson HS for Science & Tech

Second Place: TYLER L. ST. CLAIR
Poquoson High School

First Place: PATRICK A. WRIGHT
Yorktown High School

 COMPUTER SCIENCE
Honorable Mention: RUSSELL J. FLORIOSO
Bishop O'Connell High School

Honorable Mention: BRANDY C. CALLISON
Central Shenandoah Valley Governor's School

Third Place: GRAYSON M. SHEPARD
Harry F. Byrd Middle School

Second Place: MARSHALL T. VANDEGRIFT
Roanoke Valley Governor's School

First Place: AARON M. KROMER
Yorktown High School

 CONSUMER SCIENCE 'A'
Honorable Mention: MARK J. BENNETT
James River High School

Honorable Mention: JOSEPH L.M. CHARBONEAU
Williamsburg Middle School

Honorable Mention: RACHEL B. COPPERMAN
Yorktown High School

Third Place: SAMANTHA H. DITTRICH
Cave Spring High School

Second Place: KIMBERLY A. BAUMGART
Gloucester High School

First Place: J. AUTUMN BARKER
Gloucester High School

CONSUMER SCIENCE 'B'

- Honorable Mention: ABIGAIL T. FLOYD
Tuckahoe Middle School
- Honorable Mention: DECLAN M. GOULD
Tuckahoe Middle School
- Honorable Mention: ELIZABETH A. HARRELL
Chesterfield Co Mathematics and Science HS
- Third Place: BRIAN C. GROSS
Cave Spring High School
- Second Place: NALANI A. FRASER
Yorktown High School
- First Place: MICHAEL W. GARCIA, WOODROW C. HENDERSON, III
Washington-Lee High School

CONSUMER SCIENCE 'C'

- Honorable Mention: DANIEL S. MCBRIDE
Atlee High School
- Honorable Mention: PRACHIE T. NARAIN
Governor's School for Gov't & Int'l Studies
- Honorable Mention: GREGORY C. NIGHTINGALE
Yorktown High School
- Third Place: CAROLINE-THANH LUONG-TRAN
Bishop O'Connell High School
- Second Place: MARCY L. NUSSBAUM
Cave Spring High School
- First Place: ALEXANDER L. MILLER
Gloucester High School

CONSUMER SCIENCE 'D'

- Honorable Mention: LEANNE E. REIDENBACH
Roanoke Valley Governor's School
- Honorable Mention: ALLISON M. SOMERO
Gloucester High School

- Honorable Mention: SARAH E. WILLIAMS
Gloucester High School
- Third Place: CATHERINE R. TISHMAN
Williamsburg Middle School
- Second Place: EILEEN TSCHETTER
Washington-Lee High School
- First Place: MEGHAN M. WILLIAMSON
Roanoke Valley Governor's School

EARTH AND SPACE SCIENCE

- Honorable Mention: ANDREW J. HUTSELL
Yorktown High School
- Honorable Mention: THOMAS R. MALLORY
Liberty Middle School
- Honorable Mention: ALI A. NAINI
Mills E. Godwin High School
- Third Place: JENNIFER A. FENDRICK
Wakefield High School
- Second Place: GIRIRAJ K. SHARMA
Thomas Jefferson HS for Science & Tech
- First Place: ISAAC T. YONEMOTO
H.B. Woodlawn

ENGINEERING 'A'

- Honorable Mention: MICHAEL A. BERGER
Thomas Jefferson Middle School
- Honorable Mention: LUKE M. DAVIS
Liberty Middle School
- Honorable Mention: MICHAEL C. HSU
James River High School
- Third Place: NATHALIE C. FASSIE
Northside High School

Second Place: DANIEL A. KOSKI-KARELL
Yorktown High School

First Place: ZACHARY A. KOHUTEK
Central Shenandoah Valley Governor's School

ENGINEERING 'B'
Honorable Mention DEREK S. MILLER
Tuckahoe Middle School

Honorable Mention: ROY S. PRUSAK, JASON W. HARTER
Roanoke Valley Governor's School

Honorable Mention: JASON M. SELLECK
Mills E. Godwin High School

Third Place: OBERT J. MCGRAW, MICHAEL D. WOLTER,
ELISABETH A. MILLER
Roanoke Valley Governor's School

Second Place: CHRISTOPHER S. KOVES
Hayfield Secondary School

First Place KAVITA SHARMA
Thomas Jefferson HS for Science & Tech

ENVIRONMENTAL SCIENCE 'A'
Honorable Mention: JONATHAN P. EMMONS
Roanoke Valley Governor's School

Honorable Mention: JON M. FRIAR
Central Virginia Governor's School

Honorable Mention: KATE K. FU
Williamsburg Middle School

Third Place: REBECCA A. BROOKS
Menchville High School.

Second Place: DEMETRIA C. CHRISTO
Gloucester High School.

First Place: LINDSEY C. BRAISTED
Gloucester High School

ENVIRONMENTAL SCIENCE 'B'

Honorable Mention: BRITTANY M. GROOVER
Gloucester High School

Honorable Mention: RUTH A. HALL
Mills E. Godwin High School

Honorable Mention: JENNIFER L. LANEY
Central Virginia Governor's School

Third Place: KATHERINE M. HANNA
Central Virginia Governor's School

Second Place: ABHISHEK GUPTA
Freeman High School

First Place: ALICE A. MASSEY
Norfolk Academy

ENVIRONMENTAL SCIENCE 'C'

Honorable Mention: ELIZABETH G. OESTERLING
Gloucester High School

Honorable Mention: MIKE A. POHL
Hines Middle School

Honorable Mention: STEPHEN M. NG
Yorktown High School

Third Place: JESSICA L. ROSS, KEVIN W. JOHNSON
Yorktown High School

Second Place: STEPHEN P. RAMALEY
Warwick High School

First Place: ERIC C. MOORE
Gloucester High School

ENVIRONMENTAL SCIENCE 'D'

Honorable Mention: BIRGIT E. WAIDMANN, ASHLEY E. ALBERT
Yorktown High School

Honorable Mention: CHRISTOPHER J. YUREK
Bishop O'Connell High School

Third Place: ANNE E. RUSTIN
Chesterfield Co Mathematics and Science HS

Second Place: BRIAN R. STANSFIELD
Yorktown High School

First Place: NGOC B. VU
Gloucester High School

GENETICS AND CELLULAR BIOLOGY

Honorable Mention: PRIYA R. GOPALAN
Thomas Jefferson HS for Science & Tech

Honorable Mention: EISHA JAIN
Governor's School for Gov't & Int'l Studies

Third Place: MASSIHULLAH HAMIDI
Thomas Jefferson HS for Science & Tech

Second Place: SHAZIYA G. SHAIKH
Thomas Jefferson HS for Science & Tech

First Place: JESSICA D.KESSLER
Mills E. Godwin High School

MATHEMATICS AND STATISTICS

Honorable Mention: JAMES Q. FORMAN
Gildersleeve Middle School

Honorable Mention: OLMSTEAD S. RUDYARD
Woodberry Forest School

Honorable Mention: HEATHER L. SANDERS
Chesterfield Co Mathematics and Science HS

Third Place: JAMES W. DAVIS
Woodberry Forest School

Second Place: SONALI MUKHERJEE
New Horizons Governor's School

First Place: JENNIFER K. MURRILL
Atlee High School

MEDICINE AND HEALTH 'A'

- Honorable Mention: MARIA S. CECIRE
Warwick High School
- Honorable Mention: SARGON M. DE JESUS
Thomas Jefferson Middle School
- Honorable Mention: HILLARY L. HAWTHORNE
J.R. Tucker High School
- Third Place: BENJAMIN D. EASTER
Manchester Middle School
- Second Place: CHRISTOPHER W. BAILEY
J.R. Tucker High School
- First Place: SARAH P. BRYAN
Gloucester High School

MEDICINE AND HEALTH 'B'

- Honorable Mention: VICKY A. JONES
Chesterfield Co Mathematics and Science HS
- Honorable Mention: SARAH K. LONGEST
Governor's School for Gov't & Int'l Studies
- Third Place: CATHERINE A.S. KOSS
Thomas Jefferson HS for Science & Tech
- Second Place: BETHANY C. LOBO
Warwick High School
- First Place: NISHA NAGARKATTI
Blacksburg High School

MEDICINE AND HEALTH 'C'

- Honorable Mention: MYTHILI G. RAO
Poquoson High School
- Honorable Mention: JAMES R. SAGAR
Yorktown High School
- Honorable Mention: VERONICA SIKKA
Governor's School for Gov't & Int'l Studies

VJAS AWARDS

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Third Place: JOSEPH C. SWANSON
New Horizons Governor's School

Second Place: MOLLY C. WOJCIK
Yorktown High School

First Place: KELLY L. SHEA
Gloucester High School

MICROBIOLOGY 'A'

Honorable Mention: BRYNNE S. ARCHER
Harry F. Byrd Middle School

Honorable Mention: CHARLES L. HAWKINS
Thomas Jefferson Middle School

Honorable Mention: MEAGAN S.Y. HUBBARD, MACKENZIE E. FAMA
Hines Middle School

Third Place: SHAUNAK K. DEEPAK
Poquoson High School

Second Place: NOAH A. DEICH
Williamsburg Middle School

First Place: FINALE P. DOSHI
Governor's School for Gov't & Int'l Studies

MICROBIOLOGY 'B'

Honorable Mention: MARISSA R. KESSLER
Short Pump Middle School

Honorable Mention: MELANIE D. MATTHEWS
Central Shenandoah Valley Governor's School

Honorable Mention: KATHRYN J. OBERG
Washington-Lee High School

Third Place: SHOMA SARKAR
Central Virginia Governor's School

Second Place: PHILLIP W. ZUBER
Gloucester High School

PHYSICS 'C'

- Honorable Mention: DAVID H. LOGAN
Yorktown High School
- Honorable Mention: STEPHEN A. MAY
Ocean Lakes High School
- Honorable Mention: DEVESH R. RAVAL
Governor's School for Gov't & Int'l Studies
- Third Place: KIRK M. PETERSON
New Horizons Governor's School
- Second Place: BETH A. REID
Chesterfield Co Mathematics and Science HS
- First Place: KURT E. MITMAN
Thomas Jefferson HS for Science & Tech

PHYSICS 'D'

- Honorable Mention: JOHN M. WHITTET
Tuckahoe Middle School
- Honorable Mention: EMILY S. WREN
Yorktown High School
- Third Place: LINDSEY A. VON KAENEL
Thomas Jefferson Middle School
- Second Place: JEREMY O. SKOG
Thomas Jefferson HS for Science & Tech
- First Place: MARY W. VAUSE
Menchville High School

PSYCHOLOGY - GENERAL

- Honorable Mention: SHARON S. LYNCH
Yorktown High School
- Honorable Mention: GAURI R. RAVAL
Harry F. Byrd Middle School
- Third Place: THOMAS C. FORTUNA
Moody Middle School

Second Place: ANNA M. PALUMBO
Menchville High School

First Place: EMILY K. ANTHERS
Yorktown High School

PSYCHOLOGY - LEARNING & PERCEPTION 'A'

Honorable Mention: JOSEPH N. BARDEN
Governor's School for Gov't & Int'l Studies

Honorable Mention: GRACE M. GLAZE
Governor's School for Gov't & Int'l Studies

Honorable Mention: JONATHAN L. GREEN
Liberty Middle School

Third Place: AMANDA L. AUERBACH
J.R. Tucker High School

Second Place: BRYAN S. FOSTER
Central Virginia Governor's School

First Place: TAYLOR M. BECK
Tuckahoe Middle School

PSYCHOLOGY - LEARNING & PERCEPTION 'B'

Honorable Mention: JUSTIN J. GREEN
Yorktown High School

Honorable Mention: MIGUEL R. LAYGO
Bishop O'Connell High School

Honorable Mention: BRYAN J. NEWCOMB
Atlee High School

Third Place: ABIGAIL L. ROBBINS
Tuckahoe Middle School

Second Place: MARY M. MATTSON
Gloucester High School

First Place: SARA B. ROACH
J.R. Tucker High School

PSYCHOLOGY - LEARNING & PERCEPTION 'C'

- Honorable Mention: MARK G. ROLDAN
Magnet School for Science and Health Professions
- Honorable Mention: ELIZABETH M. SCHIRICK
Mills E. Godwin High School
- Honorable Mention: ELIZABETH C. SMITH
Governor's School for Gov't & Int'l Studies
- Third Place: SHELLEY M. SICELOFF
James River High School
- Second Place: JUSTIN L. SHEARER
Central Virginia Governor's School
- First Place: SARA N. TSUCHITANI
Yorktown High School

PSYCHOLOGY - SOCIAL

- Honorable Mention: DEANNA M. ARBLE
Mills E. Godwin High School
- Honorable Mention: KATHERINE R.H. MURTHA
Williamsburg Middle School
- Honorable Mention: JULIA E. SEYMOUR
Yorktown High School
- Third Place: GRACE D. APPIAH
Atlee High School
- Second Place: MARJORIE M. FRANKEL, AMY B. FRANKLIN
Yorktown High School
- First Place: DIANA L. FITHIAN
New Horizons Governor's School

ZOOLOGY 'A'

- Honorable Mention: LINDSEY A. CONKLIN
Yorktown High School
- Honorable Mention: NICHOLAS G. GAMSE
Yorktown High School

Honorable Mention: DANA E. HINKSON
Central Virginia Governor's School

Third Place: MARK R. ALLEN
Central Virginia Governor's School

Second Place: KAHERINE H. BOYETTE
Gloucester High School

First Place: SHAUNAK K. DEEPAK
New Horizons Governor's School

ZOOLOGY 'B'

Honorable Mention: ASHLEY M. MILLER
Gloucester High School

Honorable Mention: MICHAEL F. SIEMS, NATHAN H. RAINES
Williamsburg Middle School

Honorable Mention: BRYAN C. WITT
Gildersleeve Middle School

Third Place: MEREDITH A. WHITLEY
Gloucester High School

Second Place: LAUREN K. TROTT, JENNIFER E. SLOANE
Atlee High School

First Place: BETHANY B. SKELTON
Washington-Lee High School

5. Special Awards

SPECIAL AWARDS

Major W. Catesby Jones Award is for the STS winner displaying the greatest science potential.

Third Place: (\$25)
KAVITA SHARMA
Thomas Jefferson HS for Science & Tech

Second Place: (\$50)
JESSICA D. KESSLER
Mills E. Godwin High School

First Place: (\$75)
KURT MITMAN
Thomas Jefferson HS for Science & Tech

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

MELISSA POLLOCK
Gloucester High School

VJAS Neuroscience Awards supported by the Virginia Neurological Society and the Auxilliary of the Virginia Neurological Society are given to four outstanding papers in the field of neuroscience (\$75.00 each).

EMILY K. SMITH
Bishop O'Connell High School

AMANDA L. PAYNE
Southwest Virginia Governor's School

JOSEPH C. SWANSON
New Horizons Governor's School

SARA N. TSUCHITANI
Yorktown High School

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

JENNIFER K. MURRILL
Atlee 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)

TRAVEEN RAO
Mills E. Godwin High School

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

JESSICA D. KESSLER
Mills E. Godwin High School

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

LEAH CASABIANCA
Thomas Jefferson HS for Science & Tech

The Dr. and Mrs. Preston H. Leake Award in Applied Chemistry (\$200.00) 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.

JENNIFER L. LANEY
Central Virginia Governor's School

Russell J. Rowlett Award for the Best Research Paper of the Year.(\$100.00)

NISHA NAGARKATTI
Blacksburg High School

The Virginia Psychological Foundation Meritorious Research Awards recognize outstanding presentations of research in the various fields of psychology. Each award includes a prize of \$80.00.

EMILY K. ANTHERS
Yorktown High School

TAYLOR M. BECK
Tuckahoe Middle School

SARAH B. ROACH
J.R. Tucker High School

SARAH N. TSUCHITANI
Yorktown High School

DIANA L. FITHIAN
New Horizons Governor's School

Virginia Sea Grant College Program Award is given by the Virginia Sea Grant College Program for outstanding marine or coastal research. (\$100.00)

ERIC C. MOORE
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 - \$500, 2nd place \$300, 3rd place \$125, and honorable mention \$75. There will be a ribbon with a pin for each winner. These awards are provided by the American Cancer Society (Virginia Council).

Honorable Mention - (\$75)

ANDREA E. NICULESCU

Chesterfield County Mathematics and Science High School

Third Place - (\$125)

ALEXA J. MERCHANT

Mills E. Godwin High School

Second Place - (\$300)

JESSICA D. KESSLER

Mills E. Godwin High School

First Place - (\$500)

NISHA NAGARKATTI

Blacksburg High School

The Gamma Sigma Delta Award (Agriculture). Presented by the VPI & SU Chapter of the Honor Society of Agriculture. This award of \$100 is presented in recognition of excellence in research dealing with application of new technologies and/or concepts in agriculture forestry, or veterinary medicine.

CAROLINE M. JETT

Atlee High School

W. W. Berry Award. This award is given by VA 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.

KAVITA SHARMA

Thomas Jefferson HS for Science & Tech

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.

JONATHAN L. GREEN

Liberty Middle School

The Ann M. Hancock Award - (\$500 - 1999, 2000, 2001) 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.

JESSICA D. KESSLER
Mills E. Godwin High School

Trip to AJAS - AAAS Meeting for two students and two alternates for presenting outstanding papers. The 1999 meeting will be held in Feb. in Washington, D.C.

Winner
ERIC C. MOORE
Gloucester High School

NISHA NAGARKATTI
Blacksburg High School

Alternate
GIRIRAJ K. SHARMA
Thomas Jefferson HS for Science & Tech

KURT E. MITMAN
Thomas Jefferson HS for Science & Tech

Honorary Membership - AAAS given to two students.

TOM HARMON
Atlee High School

HANNAN I. AHMED

Honorary Membership - VAS given to a student.

KATIE VICCELLIO

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. Accompanying this scholarship is a rotating plaque to be displayed in the student's school for the next year. This award is based on both the students presentation and paper.

BETHANY C. LOBO
Warwick 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.

ERIC C. MOORE
Gloucester 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 Washington, DC.

BRIAN HALL
Chickahominy 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.

DOROTHY S. KNOWLTON