AGRICULTURE AND ANIMAL SCIENCE

Honorable Mention: ZHUOYI FAN
Yorktown High School

Honorable Mention: LAUREN E. TIGNOR
Henrico High School

Third Place: CORTNEY Y. NEWELL
Mills E. Godwin High School

Second Place: MOLLY M. BINION
Deep Run High School

First Place: LOREN K. LIEBRECHT
Southwest Virginia Governor's School

ANIMAL BEHAVIOR (ETHOLOGY)

Honorable Mention: PHILIP W. GIANFORTONI AND ROBERT G. NORTHCUTT
Mills E. Godwin High School

Honorable Mention: MATTHEW R. KOSCHAK
Deep Run High School

Honorable Mention: SAVANNAH M. REEVES
Deep Run High School

Third Place: ASHLEY A. FORTIER
Deep Run High School

Second Place: NATE D. CODDINGTON
Williamsburg Middle School

First Place: GRACE Z. WANG
Mills E. Godwin High School

BOTANY A

Honorable Mention: ALLISON E. BARTLETT
Deep Run High School

Honorable Mention: RACHEL M. BROOKE
Washington-Lee High School

Honorable Mention: CHRISTOPHER M. CIRILLO
Homer L. Hines Middle School

Third Place: MAXWELL W. DUNCAN
Yorktown High School

Second Place: MEGAN K. DALTON
Roanoke Valley Governor's School

First Place: SYLVIA R. CHEN AND KIRSTEN L. SIEBACH
Thomas Jefferson High School for Science and Technology

BOTANY B

Honorable Mention: JOHN L. EWERS
Central Virginia Governor's School

Honorable Mention: CHRISTINE A. MCLEAN
Washington-Lee High School

Honorable Mention: CARA M. NORTON
Roanoke Valley Governor's School

Third Place: MICHAEL R. PUSH
Deep Run High School
Second Place: STEPHANIE V. GORDON
Yorktown High School

First Place: THOMAS J. KOZIKOWSKI
Southwest Virginia Governor's School

BOTANY C
Honorable Mention: HOBART C. REYNOLDS
Washington-Lee High School

Honorable Mention: LAUREL B. SLOUGH
Mills E. Godwin High School

Honorable Mention: JACK E. VIHSTADT
Yorktown High School

Third Place: EVAN E. SCHNEIDER
Central Virginia Governor's School

Second Place: JACQUELINE M. ZILLIOUX
Roanoke Valley Governor's School

First Place: THAIS L. TEOTONIO
Roanoke Valley Governor's School

CHEMISTRY A
Honorable Mention: LAUREN E. FASZEWSKI
Mathematics and Science High School at Clover Hill

Third Place: ALEXANDRA C. CHIOU
Maggie L. Walker Governor's School

Second Place: JULIA E. CAVALIERI
Deep Run High School

First Place: BRENDAN C. DOYLE
Yorktown High School

CHEMISTRY B
Honorable Mention: ANDREW G.O. MALONE
Yorktown High School

Honorable Mention: AMANDA R. MILLER
Shenandoah Valley Governor's School

Honorable Mention: AMELIA C.J. MUTTER
Yorktown High School

Third Place: ALEX B. JONES AND MADISON E. LANE
Swanson Middle School

Second Place: ANNA M. HAMMOCK
Shenandoah Valley Governor's School

First Place: MICHELLE S. HOUR
Central Virginia Governor's School

CHEMISTRY C
Honorable Mention: SAMANTHA A. MUTTER
Yorktown High School

Honorable Mention: MEHDI M.A. RAZVI
Maggie L. Walker Governor's School

Honorable Mention: KIRSTEN F. RUMSEY
Menchville High School
Third Place: ZACHARY J. RICE
Roanoke Valley Governor's School

Second Place: CHARLOTTE J. REEVES
Shenandoah Valley Governor's School

First Place: PAIGE L. ROSEMAN
Roanoke Valley Governor's School

**COMPUTER SCIENCE**

Honorable Mention: DAVID A. SAWCHAK
Maggie L. Walker Governor's School

Honorable Mention: ANNE M. WATSON
Menchville High School

Third Place: WILLIAM T. ROBSON, III
Shenandoah Valley Governor's School

Second Place: ERIC J. WELANDER
Deep Run High School

First Place: ANNA CHAN, DANIEL CAUGHRAN AND CHRISTOPHER APPLEGATE
Yorktown High School

**CONSUMER SCIENCE A**

Honorable Mention: JUSTIN S. ETKIN
Swanson Middle School

Honorable Mention: DAVID J. HANNA AND JOSEPH P. SOJKA
Mills E. Godwin High School

Honorable Mention: TIMOTHY M. MEIGHAN
Deep Run High School

Third Place: WHITNEY N. HAWKINS
Shenandoah Valley Governor's School

Second Place: BENJAMIN C. ARANCIBIA
Mills E. Godwin High School

First Place: MEREDITH L. MALLORY
Central Virginia Governor's School

**CONSUMER SCIENCE B**

Honorable Mention: ASHLEY M. SIMMONS
Appomattox Governor's School

Honorable Mention: MORGAN M. STIEBEL
George H. Moody Middle School

Honorable Mention: LANE E. VAN ARSDALE
Mills E. Godwin High School

Third Place: BRYAN G. WHARTON AND ROBERT F. WILLOUGHBY
Deep Run High School

Second Place: PHILIP G. OBENSCHAIN
Shenandoah Valley Governor's School

First Place: ERIKA E. POWELL
George H. Moody Middle School
EARTH AND SPACE SCIENCE
Honorable Mention: SUZANNAH B. MONTGOMERY
Douglas Freeman High School
Honorable Mention: ANDREW D. SYLVESTER
George H. Moody Middle School
Honorable Mention: M. KAITLYN WINSTON
Harry F. Byrd Middle School
Third Place: JENNIFER T. GIUFFRIDA
George H. Moody Middle School
Second Place: ALEXANDRA M. FITZGERALD
Shenandoah Valley Governor's School
First Place: MARY KATHRYNE DICKINSON
J.R. Tucker High School

ENGINEERING A
Honorable Mention: DEVIN A. JEFFERSON
George H. Moody Middle School
Honorable Mention: IMRAN A. KHATRI
George H. Moody Middle School
Third Place: DANIELLE M. CASSELTON AND BRITTANY A. DECAPRI
Mills E. Godwin High School
Second Place: SHANE M. HODSON
Warwick High School
First Place: ROBERT BRIK
Mills E. Godwin High School

ENGINEERING B
Honorable Mention: KELLY M. O'BRIANT
Yorktown High School
Honorable Mention: RYAN T. OLSON
Southwest Virginia Governor's School
Third Place: MATTHEW S. PELTZ
Menchville High School
Second Place: VIRGINIA L. TAYLOR
Washington-Lee High School
First Place: ANNE D. TALLEY AND JENNIFER L. DOWNS
Mills E. Godwin High School

ENVIRONMENTAL SCIENCE A
Honorable Mention: T. KAITIE CASTAGNA
Gildersleeve Middle School
Honorable Mention: MELISSA A. DISKIN
Warwick High School
Honorable Mention: LINDSAY T. FORD
J.R. Tucker High School
Third Place: ROHIT BANERGEE
Mills E. Godwin High School
Second Place: RYAN P. BUGAS
Shenandoah Valley Governor's School
First Place: KATHLEEN E. FLEMING
Yorktown High School
ENVIRONMENTAL SCIENCE B
Honorable Mention: TRISTAN A. HAYES
I.C. Norcom High School
Honorable Mention: BRIAN T. JEFFRIES AND DAVID A. MARLLES
Mills E. Godwin High School
Honorable Mention: OMKAR G. KHARKAR
Deep Run High School
Third Place: MEGAN N. IVES
Roanoke Valley Governor's School
Second Place: RYAN C. KELLEY
Mills E. Godwin High School
First Place: MICHELLE R. HITE AND LAUREN R. DEPOMPEO
Chesapeake Bay Governor's School

ENVIRONMENTAL SCIENCE C
Honorable Mention: ERICA R. PORTER
Central Virginia Governor's School
Honorable Mention: ADARSH R. RAMAKRISHNAN
Mills E. Godwin High School
Third Place: KELLY J. LUGBILL
George H. Moody Middle School
Second Place: KATIE A. PUCKETT
Mathematics and Science High School at Clover Hill
First Place: JENNIFER A. SCOTT
Chesapeake Bay Governor's School

ENVIRONMENTAL SCIENCE D
Honorable Mention: ETHAN J. THEUERKAUF
Chesapeake Bay Governor's School
Honorable Mention: MARY WADE
Shenandoah Valley Governor's School
Honorable Mention: CANDACE F. WHITE
King and Queen Elementary School
Third Place: SARAH B. ZUCKOFF AND RACHEL S. SMITHH
Mathematics and Science High School at Clover Hill
Second Place: ANTHONY M. VITALI AND JARED P. SULLIVAN
Chesapeake Bay Governor's School
First Place: CHRISTIAN H. STRAUBE
Menchville High School

GENETICS AND CELLULAR BIOLOGY
Honorable Mention: RAHUL R. MENON
Mills E. Godwin High School
Honorable Mention: SOHINI SIRCAR
Maggie L. Walker Governor's School
Honorable Mention: NATALIE Y. ZHAO
George H. Moody Middle School
Third Place: DANIEL B. FISHER
Lee-Davis High School
Second Place: JAKE M. SATIN  
Douglas Freeman High School

First Place: YUAN J. RAO  
Maggie L. Walker Governor's School

**MATHEMATICS**

Honorable Mention: CHRISTOPHER J. KANNEY  
Shenandoah Valley Governor’s School

Honorable Mention: NIKET R. PANDEY  
New Horizons Governor's School

Third Place: E. KAITLYN TULEY  
Mathematics and Science High School at Clover Hill

Second Place: JIYATI VERMA  
York High School

First Place: STEVEN S. LI  
Maggie L. Walker Governor's School

**MEDICINE AND HEALTH A**

Honorable Mention: NICOLAS A. DORESTE  
Gildersleeve Middle School

Honorable Mention: MATTHEW F. DOYLE  
Yorktown High School

Honorable Mention: EMELIE M. DUKE  
James River High School

Third Place: EVAN R. CANTOR AND JOHN C. GAGLIARDI  
Deep Run High School

Second Place: PAUL M. DIORIO  
New Horizons Governor's School

First Place: HANNAH J. BARNA  
Bishop Denis J. O'Connell High School

**MEDICINE AND HEALTH B**

Honorable Mention: CAITLIN C. GRAHAM  
Mills E. Godwin High School

Honorable Mention: SKYLER N. HALBRITTER  
Deep Run High School

Honorable Mention: ALLSON M. LEACH  
Mills E. Godwin High School

Third Place: RUTH K. MANN  
Central Virginia Governor's School

Second Place: HELEN HAN  
Maggie L. Walker Governor's School

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

**MEDICINE AND HEALTH C**

Honorable Mention: DYLAN M. NORVELL  
George H. Moody Middle School

Honorable Mention: MEREDITH A. ROYAL  
Deep Run High School
Honorable Mention: DANIEL M. ZINK
Woodside High School

Third Place: JOANNA N. WU
Maggie L. Walker Governor's School

Second Place: RACHEL E. WHEELER
Mills E. Godwin High School

First Place: SARA M. SMALL
Douglas Freeman High School

MICROBIOLOGY A

Honorable Mention: SARA P. COHEN
Roanoke Valley Governor’s School

Honorable Mention: LEAF A. ELHAI
George H. Moody Middle School

Honorable Mention: RISHI K. GANERIWALA
Mills E. Godwin High School

Third Place: RYAN D. CHAFE
Deep Run High School

Second Place: ENA DEKANIC
Maggie L. Walker Governor's School

First Place: BERKLEY T. CARDWELL
Central Virginia Governor's School

MICROBIOLOGY B

Honorable Mention: ERICA M. RUTHERFORD
Central Virginia Governor's School

Honorable Mention: ALEXANDRA M. SPROLES
Gildersleeve Middle School

Honorable Mention: TANYA YAJNIK
Mills E. Godwin High School

Third Place: CHRISTINE J. SCIARRINO
Central Virginia Governor's School

Second Place: THMOAS J.C. MORIE
Yorktown High School

First Place: SAMUEL M. STRONGIN
Yorktown High School

PHYSICAL SCIENCE A

Honorable Mention: MEREDITH F. BEARDEN
George H. Moody Middle School

Honorable Mention: THOMAS J. GOWER
Swanson Middle School

Honorable Mention: WRITESH MAULIK
Swanson Middle School

Third Place: HANNAH S. BAUMAN AND ELIZABETH A. FARIS
Swanson Middle School

Second Place: STEVEN M. HINKES
Deep Run High School

First Place: ADAM J. GINSBERG
Swanson Middle School
PHYSICAL SCIENCE B
Honorable Mention: MATTHEW H. NGUYEN
George H. Moody Middle School
Third Place: MARK J. MERLING
George H. Moody Middle School
Second Place: JESSICA S. WANG
Harry F. Byrd Middle School
First Place: CAROLINE E. PELNIK
George H. Moody Middle School

PHYSICS A
Honorable Mention: JAMES E. ATCHISON
Hermitage High School
Honorable Mention: BENJAMIN A. BOONE
Atlee High School
Honorable Mention: PETER D. ELBAOR
Yorktown High School
Third Place: JOSHUA C. FRANKLIN AND CHARLES W. DAVIS
Chesapeake Bay Governor's School
Second Place: WREN M. BLACKWELL
Hanover High School
First Place: MICHAEL J. JOHNSON AND RICH L. LANE
Woodberry Forest School

PHYSICS B
Honorable Mention: ANDREW C. LUXHOJ AND MICHAEL J. KACZKA
Deep Run High School
Honorable Mention: NICHOLAS D. THOMPSON
Deep Run High School
Honorable Mention: JENNIFER L. WIEBOLDT
Yorktown High School
Third Place: APURVA PANDE
George H. Moody Middle School
Second Place: DAVID M. KAMENSKY
Washington-Lee High School
First Place: HELEN L. VASALY
Yorktown High School

PSYCHOLOGY - GENERAL
Honorable Mention: ANDREW P. BROWN
Yorktown High School
Honorable Mention: MARA S. ROSENKRANTZ
Mills E. Godwin High School
Honorable Mention: BENJAMIN L. SIMONSEN
Shenandoah Valley Governor's School
Third Place: LAURA D. ALEXANDER
Shenandoah Valley Governor's School
Second Place: THOMAS N. MOSHER
Swanson Middle School
First Place: SABRINA A. LANE
Shenandoah Valley Governor's School
Honorable Mention: KATHRYN M. HICKSON
Menchville High School
Honorable Mention: DREW J. JACOBSEN
Deep Run High School
Honorable Mention: RICHA KHANNA
Mills E. Godwin High School
Third Place: KELSEY E. BIBEE
Central Virginia Governor's School
Second Place: ALEXANDER C. KOZERA
Central Virginia Governor's School
First Place: ERIN M. FOX
Menchville High School

PSYCHOLOGY - LEARNING & PERCEPTION B
Honorable Mention: ELENA V. MARTINEZ DE ANDINO
Maggie L. Walker Governor's School
Honorable Mention: HANNAH E. RUMSEY
Gildersleeve Middle School
Honorable Mention: DAVID G. WISE
Mills E. Godwin High School
Third Place: PURVI S. PATEL
J.R. Tucker High School
Second Place: DAVID R. LYNCH
Deep Run High School
First Place: MICHELLE M. WALKER AND LAUREN E. KOWAL
Deep Run High School

PSYCHOLOGY - SOCIAL
Honorable Mention: JENNIFER A. FERGUSON
Central Virginia Governor's School
Honorable Mention: BRAD T. RICHARDS
Deep Run High School
Honorable Mention: ALEXANDRA C. ROY
Washington-Lee High School
Third Place: CLAIRE C. SHOTWELL
J.R. Tucker High School
Second Place: MARGARET E. CALOS
Maggie L. Walker Governor's School
First Place: BRIAN T. FITHIAN
New Horizons Governor's School

STATISTICS
Honorable Mention: MEGAN A. RIDGWAY
Hermitage High School
Third Place: MATTHEW S. BAILEY
Shenandoah Valley Governor's School
Second Place: ASHLEY N. SUTHERLAND AND SHANNON W. SKEENS
Shenandoah Valley Governor's School
First Place: JENNIE N. XUE
Mills E. Godwin High School
Honorable Mention: MATTHEW E. CAPLAN
Gildersleeve Middle School

Honorable Mention: CARSON C. CROWDER
Central Virginia Governor's School

Honorable Mention: SAMANTHA L. ZITO
Yorktown High School

Third Place: MEGAN L. KROUT
Yorktown High School

Second Place: SHANNON T. GUNNING
Bishop Denis J. O'Connell High School

First Place: KYLE A. LAMSON AND TY OTTO
Thomas Jefferson High School for Science and Technology

VJAS Special Awards

Botany Section Award, given by the Botany Section of the VAS, to the best paper on a botanical subject.

THAIS TEOTONIO
Roanoke Valley Governor's School

VJAS Neuroscience Awards supported by the Virginia Neurological Society is given to an outstanding paper in the field of neuroscience.

SOHINI SIRCAR
Maggie L. Walker 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.

REBECCA BARLAS
Yorktown High School

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

STEVEN S. LI
Maggie L. Walker Governor's School

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

JENNY N. XUE
Mills E. Godwin 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.

JESSICA YUH
Yorktown High School

Roscoe Hughes Award for the best paper in the field of Cellular Biology.

YUAN RAO
Maggie L. Walker Governor's School
Rodney C. Berry Chemistry Award for the paper that evidences the most significant contribution in the field of chemistry.

MICHELLE HOUR
Central Virginia Governor's 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.

Second Place
JUSTIN SAUNDERS
Bishop Denis J. O'Connell High School

First Place
Sohini Sircar
Maggie L. Walker Governor's School

Russell J. Rowlett Award for the Best Research Paper of the Year.

CASIDHE H. HORAN
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.

SABRINA A. LANE
Southwest Virginia Governor's School

ERIN M. FOX
Menchville High School

MICHELLE WALKER AND LAUREL KOWAL
Deep Run High School

BRIAN T. 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.

ETHAN J. THEUERKAUF
Chesapeake Bay Governor's School

American Cancer Society Award - This award is to recognize outstanding science papers related to cancer research. These awards are provided by the American Cancer Society (Virginia Council). These awards presented by Tammy Steele, American Cancer Society.

Honorable Mention
PAUL M. DIORIO
New Horizons Governor's School

First Place
JIE NI XUE
Mills E. Godwin High 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.

LOREN K. LIEBRECHT
Southwest Virginia Governor's 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.

ANNE TALLEY AND JENNIFER DOWNS
Mills E. Godwin 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.

M. KAITLYN WINSTON
Harry F. Byrd 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.

JAKE SATIN
Douglas Freeman 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.

CARMEN R. MILLER
J.R. Tucker High School

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

KYLE LAMSON AND TY OTTO
Thomas Jefferson High School for Science and Technology

Virginia Museum of Natural History Award - Presented by the Friends of the Virginia Museum of Natural History in recognition of significant contribution in the study and interpretation of Virginia's Natural Heritage.

M. KAITLYN WINSTON
Harry F. Byrd Middle School

Trip to AJAS - AAAS Meeting for two students and two alternates for presenting outstanding papers. The 2006 meeting will be held in February in St. Louis.

winner MICHELLE HOUR
Central Virginia Governor's School

winner CAROLINE E. PELNIK
George H. Moody Middle School
Honorary Membership - AAAS given to two students.
HELEN HAN
Maggie L. Walker Governor's School
JERREL COLEMAN
Huguenot High School

Honorary Membership - VAS given to a student.
JIYATI VERMA
York 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.
MARY KATHRYNE DICKINSON
J.R. Tucker High School

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 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.
JENNIFER A. SCOTT
Chesapeake Bay Governor's 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.
LOREN K. LIEBRECHT
Southwest Virginia Governor's 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 St. Louis.
CHARLES LAROCCA
James River High School
ALLYSON MCKOWEN
Yorktown High 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 presented by Susan Booth.

JOAN H. JONES AND RICHARD JONES

ELECTION RESULTS

Historian - TRISTAN HAYES
Secretary - PAULA HILL
Vice President - RAHUL MENON
President - KELLY O'BRIANT
<table>
<thead>
<tr>
<th>Author Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abdullah, Sakeena T.</td>
<td>41</td>
</tr>
<tr>
<td>Abraham, Sheena</td>
<td>16</td>
</tr>
<tr>
<td>Ahn, Changwoo</td>
<td>28</td>
</tr>
<tr>
<td>Alexander, Amy E.</td>
<td>29</td>
</tr>
<tr>
<td>Allen, Thomas R. Jr.</td>
<td>30</td>
</tr>
<tr>
<td>Alvarez, Consuela J.</td>
<td>32</td>
</tr>
<tr>
<td>Amenta, Donna</td>
<td>23</td>
</tr>
<tr>
<td>Amenta, Donna S.</td>
<td>20</td>
</tr>
<tr>
<td>Anderson, Amanda L.</td>
<td>20</td>
</tr>
<tr>
<td>Arthur, Michelle L.</td>
<td>29</td>
</tr>
<tr>
<td>Arthur, Michelle L.</td>
<td>27</td>
</tr>
<tr>
<td>Augustine, Brian H.</td>
<td>9</td>
</tr>
<tr>
<td>Auttachoat, Wimolnut</td>
<td>35</td>
</tr>
<tr>
<td>Bah, Ahmad J.</td>
<td>41</td>
</tr>
<tr>
<td>Bajwa, A.</td>
<td>33</td>
</tr>
<tr>
<td>Bajwa, Amandeep</td>
<td>33</td>
</tr>
<tr>
<td>Baldwin, Carryl L.</td>
<td>40</td>
</tr>
<tr>
<td>Baldwin, Carryl</td>
<td>40</td>
</tr>
<tr>
<td>Barra, Rosemary</td>
<td>14</td>
</tr>
<tr>
<td>Bass, Michael L.</td>
<td>29</td>
</tr>
<tr>
<td>Bass, Michael L.</td>
<td>27</td>
</tr>
<tr>
<td>Basu, Priyadarshi</td>
<td>34</td>
</tr>
<tr>
<td>Baxter, Ryan D.</td>
<td>29</td>
</tr>
<tr>
<td>Bayraktar, T.</td>
<td>16</td>
</tr>
<tr>
<td>Beck, L.C.</td>
<td>35</td>
</tr>
<tr>
<td>Beckman, M.J.</td>
<td>32</td>
</tr>
<tr>
<td>Beckman, M.J.</td>
<td>33</td>
</tr>
<tr>
<td>Beckman, Matthew J.</td>
<td>33</td>
</tr>
<tr>
<td>Beegle, Matthew M.</td>
<td>18</td>
</tr>
<tr>
<td>Bellows, A. Scott</td>
<td>12</td>
</tr>
<tr>
<td>Bellows, A. Scott</td>
<td>30</td>
</tr>
<tr>
<td>Bemeleit, Derk</td>
<td>15</td>
</tr>
<tr>
<td>Benfield, E.F.</td>
<td>4</td>
</tr>
<tr>
<td>Bevan, David R.</td>
<td>10</td>
</tr>
<tr>
<td>Bhattacharyya, Shabiri</td>
<td>41</td>
</tr>
<tr>
<td>Billecke, Christine</td>
<td>15</td>
</tr>
<tr>
<td>Birch, Jeffrey B.</td>
<td>42</td>
</tr>
<tr>
<td>Blair, Robert E.</td>
<td>32</td>
</tr>
<tr>
<td>Blake, Tiffany</td>
<td>41</td>
</tr>
<tr>
<td>Blanchard, David J.</td>
<td>10</td>
</tr>
<tr>
<td>Boardman, Brycelyn M.</td>
<td>20</td>
</tr>
<tr>
<td>Bogler, Oliver</td>
<td>15</td>
</tr>
<tr>
<td>Bonhivert, Antoinette C.</td>
<td>9</td>
</tr>
<tr>
<td>Brady, E.K.</td>
<td>14</td>
</tr>
<tr>
<td>Brahim, Sean</td>
<td>16</td>
</tr>
<tr>
<td>Brown, Gordon G.</td>
<td>20</td>
</tr>
<tr>
<td>Bryant, Robert G.</td>
<td>16</td>
</tr>
<tr>
<td>Calica, Guillermo S.</td>
<td>18</td>
</tr>
<tr>
<td>Call, Chris</td>
<td>17</td>
</tr>
<tr>
<td>Campbell, Elizabeth V.</td>
<td>30</td>
</tr>
<tr>
<td>Caran, Kevin L.</td>
<td>21</td>
</tr>
<tr>
<td>Carter, S.L.</td>
<td>36</td>
</tr>
<tr>
<td>Chakarun, C.</td>
<td>33</td>
</tr>
<tr>
<td>Chalkley, David</td>
<td>25</td>
</tr>
<tr>
<td>Chen, Yu</td>
<td>11</td>
</tr>
<tr>
<td>Cherry, Donald S.</td>
<td>29</td>
</tr>
<tr>
<td>Chervenak, Andrew P.</td>
<td>34</td>
</tr>
<tr>
<td>Clevinger, Curtis C.</td>
<td>18</td>
</tr>
<tr>
<td>Clevinger, Jennifer A.</td>
<td>18</td>
</tr>
<tr>
<td>Cline, Mark A.</td>
<td>6</td>
</tr>
<tr>
<td>Cline, Mark A.</td>
<td>5</td>
</tr>
<tr>
<td>Cline, Mark</td>
<td>6</td>
</tr>
<tr>
<td>Cohill, C.R.</td>
<td>25</td>
</tr>
<tr>
<td>Coleman, Douglas A.</td>
<td>19</td>
</tr>
<tr>
<td>Collier, Peggy</td>
<td>17</td>
</tr>
<tr>
<td>Constantine, Juan</td>
<td>41</td>
</tr>
<tr>
<td>Conway, Carolyn M.</td>
<td>10</td>
</tr>
<tr>
<td>Conway, Arthur F.</td>
<td>10</td>
</tr>
<tr>
<td>Couture, Christopher A.</td>
<td>28</td>
</tr>
<tr>
<td>Cozzens, Robert F.</td>
<td>22</td>
</tr>
<tr>
<td>Craft, M.A.</td>
<td>27</td>
</tr>
<tr>
<td>Crizer, David M.</td>
<td>21</td>
</tr>
<tr>
<td>Crosby, David</td>
<td>5</td>
</tr>
<tr>
<td>Crosby, David</td>
<td>5</td>
</tr>
<tr>
<td>Crum, Pam L.</td>
<td>21</td>
</tr>
<tr>
<td>Currie, Rebecca J.</td>
<td>29</td>
</tr>
<tr>
<td>Currie, Rebecca J.</td>
<td>29</td>
</tr>
<tr>
<td>Dalmet, S.S.</td>
<td>26</td>
</tr>
<tr>
<td>DeLorenzo, R.J.</td>
<td>31</td>
</tr>
<tr>
<td>DeLorenzo, Robert J.</td>
<td>32</td>
</tr>
<tr>
<td>Deshpande, L.S.</td>
<td>31</td>
</tr>
<tr>
<td>DeVore, T.C.</td>
<td>21</td>
</tr>
<tr>
<td>DeWitt, David A.</td>
<td>15</td>
</tr>
<tr>
<td>Dian, Brian C.</td>
<td>21</td>
</tr>
<tr>
<td>Dian, Brian C.</td>
<td>20</td>
</tr>
<tr>
<td>Ditzler, Kristin</td>
<td>9</td>
</tr>
<tr>
<td>Doane, Rebecca G.</td>
<td>13</td>
</tr>
<tr>
<td>Dolby, Andrew S.</td>
<td>39</td>
</tr>
<tr>
<td>Dolby, Andrew S.</td>
<td>13</td>
</tr>
<tr>
<td>Doptart, Pam</td>
<td>21</td>
</tr>
<tr>
<td>Douglass, Kevin O.</td>
<td>20</td>
</tr>
<tr>
<td>Downey, D.M.</td>
<td>21</td>
</tr>
<tr>
<td>Doyle, E.A.</td>
<td>17</td>
</tr>
<tr>
<td>Duffield, Richard</td>
<td>37</td>
</tr>
<tr>
<td>Duncan, Perry M.</td>
<td>41</td>
</tr>
<tr>
<td>Dunnings, Chevon N.</td>
<td>15</td>
</tr>
<tr>
<td>Eberhardt, Thomas L.</td>
<td>23</td>
</tr>
<tr>
<td>Eberhardt, Thomas L.</td>
<td>38</td>
</tr>
<tr>
<td>Echols, Brandi S.</td>
<td>29</td>
</tr>
<tr>
<td>Edwards, B.</td>
<td>17</td>
</tr>
<tr>
<td>Edwards, D.M.</td>
<td>21</td>
</tr>
<tr>
<td>Eldridge, Renee L.</td>
<td>33</td>
</tr>
<tr>
<td>Esen, Asim</td>
<td>10</td>
</tr>
<tr>
<td>Esen, Asim</td>
<td>13</td>
</tr>
</tbody>
</table>
PROCEEDINGS

Esmaili, Rebekah ........................................ 8
Espinasa, Luis ........................................... 14
Espinasa, Luis ........................................... 36
Espinasa, Luis ........................................... 36
Falenski, Katherine W. ................................. 32
Farrell, Nicholas ........................................ 15
Favi, F. .................................................... 5
Favi, F. .................................................... 4
Fisher, Adriana F. ......................................... 36
Fitzgerald, D. Kyle .................................... 21
Fleming, K.K. ........................................... 36
Flint, William D. ....................................... 37
Fox, Nena .................................................. 15
Freeman, J.A. ........................................... 8
Gantulga, Dashzeveg .................................. 13
Geyer, Scott M. ......................................... 20
Gianulis, Elena ......................................... 32
Gilbert, E. ................................................. 6
Gilje, John W ............................................ 20
Gilleveit, P. ............................................... 27
Gilleveit, Patrick M. .................................. 25
Gilleveit, P.M. .......................................... 26
Gotwald, John A. ....................................... 9
Grau, Harold J. .......................................... 15
Gray, Lyla H. ............................................. 36
Gray, Preston L. ......................................... 25
Green, Heather A. ..................................... 11
Grimes, David V. ....................................... 30
Groover, Richard S. .................................... 26
Guinan, Judith A. ....................................... 28
Guinan, Judy ............................................. 28
Guiseppi-Elie, Anthony ................................. 16
Guiseppi-Elie, Anthony ................................. 15
Guiseppi-Elie, Anthony ................................. 16
Guo, Tai L. ............................................... 35
Guyot, Jennifer A. .................................... 38
Haas, C.A. ................................................. 36
Haider, N.S. .............................................. 31
Hamed, H. ............................................... 20
Harper, Linnea .......................................... 15
Harper, Jill ............................................... 3
Harper, Jill ............................................... 3
Harper, Jill ............................................... 3
Harris, Reid N. ......................................... 37
Haskell, Eric ............................................. 17
Haskins, Kristy N ....................................... 14
Hayden, W. John ...................................... 18
Heller, Matthew J. ...................................... 30
Helu, Amal ................................................ 42
Henrickson, James ..................................... 18
Hernandez, Denise M. .................................. 35
Hibbitts, Harry A. ..................................... 30
Hinkle, Charlotte E .................................... 21
Hoke, Nicholas N ....................................... 22
Hömmeringh, U ......................................... 8
Hughes, W. Christopher .............................. 9
Hurd, Jennifer A ....................................... 15
Husain, Saleha .......................................... 26
Huskey, Brent A ........................................ 18
Janelinsins, B. .......................................... 20
Jarrell, D.C. ............................................. 20
Jarrell, D.C. ............................................. 19
Jilje, John ............................................... 23
Jordan, Timothy A ...................................... 29
Jordan, Timothy A ...................................... 27
Jorgensen, D. ........................................... 14
Joseph, Zubin J ......................................... 18
Justice, Elaine M ........................................ 40
Kabange, Witemba ...................................... 10
Kelley, Michelle ....................................... 40
Kennedy, Richard H. .................................. 34
Kim, E. ............................................... 33
Kim, Danial J ............................................ 41
Kimmitt, Emily A ........................................ 13
King, Jeffrey ............................................ 17
Kittur, Farooqahmed S ................................. 10
Kraemer, M. ............................................ 5
Kraemer, M. ............................................ 4
Kreutzer, B.B. ........................................... 25
Krouse, J.M. ............................................. 25
Lakner, A.M. ........................................... 21
Lalonde, Mallikarjun D ................................. 10
Lane, A.M. ............................................... 17
Law, E.B. ............................................... 27
Lawrence, David J ..................................... 9
Laygo, M. ............................................... 20
Leary, J.J. ............................................... 21
Lewis, Katrina R ....................................... 40
Liberty, Aaron J ....................................... 39
Lillard, Kevin T ........................................ 28
Lingerfelt, Louise ....................................... 15
Litchfield, Carol ....................................... 26
Litchfield, C.D. ........................................ 27
Litchfield, Carol D ..................................... 26
Litchfield, C ............................................. 26
Litchfield, Carol ....................................... 27
Lloyd, Joyce A .......................................... 34
Lloyd, Christopher T .................................... 22
Lobstei, Marion B ...................................... 17
Loesser, K.E. ........................................... 35
Loesser-Casey, Kathryn ................................ 32
Loesser-Casey, Kathryn ................................ 33
Mahfouz, Jolie ......................................... 38
Mahfouz, Jolie ......................................... 23
Maiti, Aparna ........................................... 32
Margand, Nancy A ..................................... 41
Martin, Billy R .......................................... 32
Martin, James H ........................................ 8
Maurakis, Eugene G .................................... 30
Mays, Ryan S ............................................ 39
<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>McGinnis, David M.</td>
<td>22</td>
</tr>
<tr>
<td>McIntyre, Rodolfo E.</td>
<td>41</td>
</tr>
<tr>
<td>McMullen, Conley K.</td>
<td>19</td>
</tr>
<tr>
<td>McNabb, F.M. Anne</td>
<td>11</td>
</tr>
<tr>
<td>Middleton, Alicia G.</td>
<td>15</td>
</tr>
<tr>
<td>Miller, Daniel P.</td>
<td>39</td>
</tr>
<tr>
<td>Minton, Kelly C.</td>
<td>13</td>
</tr>
<tr>
<td>Mohamed, Ali</td>
<td>7</td>
</tr>
<tr>
<td>Monroe, J.D.</td>
<td>17</td>
</tr>
<tr>
<td>Moon, Jonathan</td>
<td>17</td>
</tr>
<tr>
<td>Moran, Kevin</td>
<td>42</td>
</tr>
<tr>
<td>Moser, Kurt</td>
<td>28</td>
</tr>
<tr>
<td>Mossi, Karla</td>
<td>17</td>
</tr>
<tr>
<td>Mossi, Karla</td>
<td>16</td>
</tr>
<tr>
<td>Mouhli, Makram</td>
<td>16</td>
</tr>
<tr>
<td>Mullins, Chris</td>
<td>5</td>
</tr>
<tr>
<td>Musgrave, Matthew</td>
<td>7</td>
</tr>
<tr>
<td>Naik, Dayanand N.</td>
<td>42</td>
</tr>
<tr>
<td>Naik, Dayanand N.</td>
<td>42</td>
</tr>
<tr>
<td>Nandar, Wint</td>
<td>6</td>
</tr>
<tr>
<td>Natesan, Vallalan</td>
<td>33</td>
</tr>
<tr>
<td>Neal, Charles M.</td>
<td>39</td>
</tr>
<tr>
<td>Nerrie, Brian L.</td>
<td>4</td>
</tr>
<tr>
<td>Neves, Richard J.</td>
<td>35</td>
</tr>
<tr>
<td>Neves, Richard J.</td>
<td>38</td>
</tr>
<tr>
<td>Neves, Richard J.</td>
<td>39</td>
</tr>
<tr>
<td>Newton, Scott H.</td>
<td>5</td>
</tr>
<tr>
<td>Nyein, E.</td>
<td>8</td>
</tr>
<tr>
<td>O’Brien, James P.</td>
<td>41</td>
</tr>
<tr>
<td>Oliver, Doug</td>
<td>15</td>
</tr>
<tr>
<td>Otey, Catherine R.</td>
<td>29</td>
</tr>
<tr>
<td>Oumaeis, Zoubedia</td>
<td>17</td>
</tr>
<tr>
<td>Outlaw, Kelli J.</td>
<td>24</td>
</tr>
<tr>
<td>Ovesanya, R.</td>
<td>33</td>
</tr>
<tr>
<td>Owens, A.</td>
<td>25</td>
</tr>
<tr>
<td>Panganiban, April R.</td>
<td>40</td>
</tr>
<tr>
<td>Parker, Nina T.</td>
<td>14</td>
</tr>
<tr>
<td>Parsons, J.T.</td>
<td>31</td>
</tr>
<tr>
<td>Pate, Brooks H.</td>
<td>20</td>
</tr>
<tr>
<td>Pate, Brooks H.</td>
<td>21</td>
</tr>
<tr>
<td>Patel, Donika</td>
<td>34</td>
</tr>
<tr>
<td>Peace, Michelle R.</td>
<td>13</td>
</tr>
<tr>
<td>Pickle, Stephanie M.</td>
<td>42</td>
</tr>
<tr>
<td>Pidugu, S.B.</td>
<td>16</td>
</tr>
<tr>
<td>Pinder, M.J.</td>
<td>36</td>
</tr>
<tr>
<td>Pittman, K.B.</td>
<td>19</td>
</tr>
<tr>
<td>Powell, Priscilla W.</td>
<td>41</td>
</tr>
<tr>
<td>Proctor, Kelly</td>
<td>12</td>
</tr>
<tr>
<td>Przybyla, Jayson J.</td>
<td>36</td>
</tr>
<tr>
<td>Ralls, Samuel I.</td>
<td>14</td>
</tr>
<tr>
<td>Ramirez-Feliciano, Elisa M.</td>
<td>41</td>
</tr>
<tr>
<td>Rash, Jacob M.</td>
<td>35</td>
</tr>
<tr>
<td>Redmond, Latasha C.</td>
<td>34</td>
</tr>
<tr>
<td>Reid, Albert O.</td>
<td>7</td>
</tr>
<tr>
<td>Reis, Julia S.</td>
<td>30</td>
</tr>
<tr>
<td>Renfroe, Michael H.</td>
<td>18</td>
</tr>
<tr>
<td>Richards, Amber L.</td>
<td>15</td>
</tr>
<tr>
<td>Rishmawi, Issa J.</td>
<td>36</td>
</tr>
<tr>
<td>Robinson, Timothy J.</td>
<td>42</td>
</tr>
<tr>
<td>Rogers, J. Orion</td>
<td>14</td>
</tr>
<tr>
<td>Rogers, J. Orion</td>
<td>34</td>
</tr>
<tr>
<td>Roosa, Brian R.</td>
<td>5</td>
</tr>
<tr>
<td>Roosa, Brian R.</td>
<td>5</td>
</tr>
<tr>
<td>Rose, Ashley</td>
<td>23</td>
</tr>
<tr>
<td>Rose, Robert K.</td>
<td>12</td>
</tr>
<tr>
<td>Rose, Robert K.</td>
<td>12</td>
</tr>
<tr>
<td>Rose, Robert K.</td>
<td>11</td>
</tr>
<tr>
<td>Rose, Robert K.</td>
<td>12</td>
</tr>
<tr>
<td>Roth, Richard</td>
<td>28</td>
</tr>
<tr>
<td>Rothenberg, M.J.</td>
<td>23</td>
</tr>
<tr>
<td>Rudmin, Joseph W.</td>
<td>9</td>
</tr>
<tr>
<td>Sahin, Gozde</td>
<td>40</td>
</tr>
<tr>
<td>Sames, D. Jason</td>
<td>22</td>
</tr>
<tr>
<td>Schilcher, Joerg</td>
<td>33</td>
</tr>
<tr>
<td>Schuld, Tiffany J.</td>
<td>15</td>
</tr>
<tr>
<td>Segna, Kara G.</td>
<td>15</td>
</tr>
<tr>
<td>Sethi, P.S.</td>
<td>31</td>
</tr>
<tr>
<td>Sethi, P.S.</td>
<td>31</td>
</tr>
<tr>
<td>Sethuraman, Gopakumar</td>
<td>16</td>
</tr>
<tr>
<td>Sheridan, Philip</td>
<td>23</td>
</tr>
<tr>
<td>Sheridan, Philip</td>
<td>38</td>
</tr>
<tr>
<td>Sheridan, Philip</td>
<td>38</td>
</tr>
<tr>
<td>Sheridan, Philip</td>
<td>38</td>
</tr>
<tr>
<td>Sheridan, Philip</td>
<td>37</td>
</tr>
<tr>
<td>Shippen, Fallon A.</td>
<td>15</td>
</tr>
<tr>
<td>Shrestha, Sushma</td>
<td>10</td>
</tr>
<tr>
<td>Sides, J.M.</td>
<td>17</td>
</tr>
<tr>
<td>Sikaroodi, M.</td>
<td>27</td>
</tr>
<tr>
<td>Sikaroodi, Masoumeh</td>
<td>25</td>
</tr>
<tr>
<td>Sikaroodi, M.</td>
<td>26</td>
</tr>
<tr>
<td>Sim-Selley, Laura J.</td>
<td>32</td>
</tr>
<tr>
<td>Sitz, T.O.</td>
<td>23</td>
</tr>
<tr>
<td>Sitz, T.O.</td>
<td>22</td>
</tr>
<tr>
<td>Sitz, T.O.</td>
<td>23</td>
</tr>
<tr>
<td>Slekar, Kimberly</td>
<td>9</td>
</tr>
<tr>
<td>Smith, Marissa L.</td>
<td>6</td>
</tr>
<tr>
<td>Smith, Byron</td>
<td>16</td>
</tr>
<tr>
<td>So, Chi-Leung</td>
<td>38</td>
</tr>
<tr>
<td>Sokol, Eric R.</td>
<td>4</td>
</tr>
<tr>
<td>Spearman, M. Leroy</td>
<td>3</td>
</tr>
<tr>
<td>Spearman, M. Leroy</td>
<td>3</td>
</tr>
<tr>
<td>Spearman, M. Leroy</td>
<td>3</td>
</tr>
<tr>
<td>Spencer, Sandy</td>
<td>39</td>
</tr>
<tr>
<td>Stinson, Adam J.</td>
<td>41</td>
</tr>
<tr>
<td>Strickler, R.H.</td>
<td>27</td>
</tr>
<tr>
<td>Strom, Sarah</td>
<td>26</td>
</tr>
<tr>
<td>Strom, Sarah</td>
<td>27</td>
</tr>
<tr>
<td>Sundaram, S.</td>
<td>33</td>
</tr>
<tr>
<td>Taylor, Gerald R. Jr.</td>
<td>9</td>
</tr>
<tr>
<td>Tellmann, Nicole M.</td>
<td>23</td>
</tr>
<tr>
<td>Temple, John G.</td>
<td>13</td>
</tr>
</tbody>
</table>
Terry, Michael A. ................................ 18
Thorell, Erik .................................. 14
Torzilli, Albert P. .............................. 25
Trivedi, S.B. ..................................  8
Tucker, Michelle M. ......................... 40
Turan, Yusuf .................................. 13
Turner, Amy ..................................  9
Twimasi, Catherine A. .......................  5
Vaughan, M. .................................  6
Walker, Ayanna L. ............................ 23
Walker, David E. .............................. 32
Webb, K.E. Jr. .................................  6
Webb, Lisa S. ................................. 15
Webb, Catherine M. ......................... 11
White, Kimber L. Jr. ......................... 35
Wicks, S. Matthew .........................  12
Wilkes, T. .................................. 14
Wilkes, Gerald P. ......................... 30
Williams, Elizabeth ....................... 35
Williams, Roy L. ......................... 22
Williams, R.L. .............................. 24
Williams, Scott T. ......................... 30
Wong, C. ................................. 33
Wong, E. ................................  6
Wu, Fang Sheng .............................. 10
Wyeth, Richard P. ......................... 34
Yang, Huiqing H. ............................ 25
Yoo, Hyun S. .............................. 21
Yu, Timothy ................................. 37
Zadey, Jeff ................................. 24
Zhao, Yueqin ............................... 42
Ziegler, Christian D. ...................... 21