ONLY CALL FOR PAPERS FOR THE 75TH MEETING

CONVERSE COLLEGE
SPARTANBURG METHODIST COLLEGE
UNIVERSITY OF SOUTH CAROLINA UPSTATE
WOFFORD COLLEGE
SPARTANBURG, SOUTH CAROLINA
APRIL 2-5, 2014

ABSTRACT SUBMISSION—SEE PAGE 473.

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All contributions, inquiries about missing numbers and other matters should be addressed to the Journal Editor. News items should be sent to the News Editor. Send books to be reviewed to the Book Review Editor.

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Conley K. McMullen, Dept. of Biology, James Madison University, Harrisonburg, VA 22807; (540) 568-3805; Fax (540) 568-3333; mcmullck@jmu.edu.

PURPOSE

The purpose of this association shall be to promote the advancement of biology as a science by encouraging research, the imparting of knowledge, the application of knowledge to the solution of biological problems, and the preservation of biological resources. The ASB has representation in Section G Committee of the AAAS. Varying types of membership are available to individuals and institutions. See inside back cover.

TIME AND PLACE OF FUTURE MEETINGS

2014 April 2-5: Hosted by Converse College, Spartanburg Methodist College, University of South Carolina Upstate, and Wofford College, all four in Spartanburg, SC. Meeting site is the Convention Center at the Spartanburg Marriott.
2015 April 1-4: Hosted by the University of Tennessee at Chattanooga. Meeting site is the Convention Center at the Marriott.
"May you live in interesting times" is often recognized as a Chinese curse (with scant evidence for the origin of the phrase). Regardless of the source or meaning of this "curse", I think we can safely say that we do live in interesting times. Primary, secondary and higher education are all coming under increased scrutiny regarding efficiencies and efficacies of the many taxpayer and parent supported venues in which we try to provide a learning environment for our society. Students, both young and old, are bombarded with unprecedented access to information, with very few tools to differentiate useful information from misinformation. Educators are experiencing efforts to curtail tenure and increase ratios of students to teachers, while at the same time coming under increasing pressure to streamline the education process to generate more high school, community college, college and university graduates for the rapidly evolving global jobs market. Scientists are faced with skepticism from some parts of society concerning how and why we conduct scientific inquiry, with growing efforts to direct shrinking taxpayer dollars to support only those scientific endeavors that are politically acceptable or can promise immediate economic value to the community. We can view these challenges as obstacles to our efforts as scientists, educators and conservation biologists and feel that we have been "cursed" with "living in interesting times" or we take a page from a Zen proverb that considers "the obstacle is the path". I would like to suggest here that the Association of Southeastern Biologists (ASB) is a great vehicle with which to shine a light on our path and help us navigate the obstacles, steering us toward a future that can engage the minds of our youth and help provide them with the tools they need to navigate and thrive in our "interesting times."

“Vision and Change in Undergraduate Education: A view for the 21st century” is a project (visionandchange.org) initiated by the American Association for the Advancement of Science and funded by the National Science Foundation (NSF) that is working to “ensure that the transformations we make in undergraduate biology classrooms around the country reflect the biology we do in the 21st century” (Carol Brewer 2010). This effort to help students understand the process of science is now being championed by 40 PULSE (Partnership for Life Sciences Education) Leadership Fellows supported by an unprecedented collaboration of NSF, the National Institute of Health and the Howard Hughes Medical Institute. I am very happy to report that we have formed a partnership with the southeastern...
PULSE Fellows to facilitate integration of their goals with ASB’s supporting infrastructure. We intend to host a PULSE symposium and workshop at the 2014 ASB meeting in Spartanburg, SC. This is an exciting venture for ASB and I encourage our membership to embrace this opportunity to examine ways we can change and enhance our life science curricula across the region. The broader impacts value for this effort is for scientists and educators to take the initiative to construct innovative curriculum change and, in turn, to formulate constructive responses to political and societal calls for enhanced efficiencies and efficacies in our education system.

The Association of Southeastern Biologists is an organization of volunteers. We currently support three journals (*Southeastern Biology, Southeastern Naturalist and Eastern Biologist*) and we host a meeting annually that provides a forum for students, scientists and educators to come together to discuss new findings, new methods of pedagogy and intriguing results from various research projects ongoing in the region’s educational institutions. At the 2013 ASB meeting in Charleston, WV, hosted by Marshall University, we supported a symposium and workshop funded by the NSF Advancing Digitization of Biological Collections (ADBC) program. This effort is one of many that are being encouraged by the Bioinformatics Committee to help our community learn to deal with the vast amount of information being generated by science and how to use new tools to mine these data for novel investigations at a scale and scope that has not been available to biologists prior to our times. A second workshop hosted at the 2013 meeting explored ways to develop applications for android devices to examine and compile large datasets into accessible formats of mobile keys and floras. Many of our exhibitors and industry partners also bring innovative techniques and tools to our meeting participants, such as the Martin Microscope workshop on digital microscopy and eScience Labs workshop to help develop online laboratory exercises. These are examples of a multitude of activities supported by ASB that are structured to help educators, scientists and students keep up with the rapidly changing landscape of our 21st century world, helping educators expand their knowledge and skills base and ultimately driving pedagogical and scientific change in the region. This is an enormously important role for ASB and it can only be effective through the efforts of our volunteers and meeting participants.

The Association of Southeastern Biologists is one of the leaders in biological education and research in the country. It is critical that our membership recognizes this leadership function and the responsibilities that accompany this critical role in our society. We need to help the public understand how science works and the value of societal investment in science and science education. Our society is currently faced with many challenges, such as the impact of population growth on biodiversity and the impact of humans on climate. These challenges are complex, and mechanisms to preserve and protect our natural resources require a well-informed society that can make appropriate decision regarding allocation of resources and expectations of appropriate behaviors. Our role as scientists, educators and future scientist/educators includes working to inform and educate the public. We need to be role models and advocates for the earth.
The Association of Southeastern Biologists is a powerful platform to facilitate change. We can be the light that helps navigate the obstacles in our path to a better future. The first step to embracing this role is to recognize that our power comes from working together. The ASB Officers and Executive Committee are initiating a strategic planning effort in 2013-2014. We will ask our membership, affiliates, exhibitors and industry partners to take part in this effort over the course of the year. We will begin this effort at the ASB Executive Committee meeting in September, 2013 and we will continue this effort at the 2014 ASB meeting in Spartanburg, SC. This will be an exciting meeting where we have four “featured institutions” working with us to host a great meeting. These featured institutions (Converse College, University of South Carolina – Upstate, Spartanburg Methodist College and Wofford College) are all engaged in the development of innovative curricula and we look forward to their engagement with our membership and attendees at the 2014 ASB meeting. I encourage you, as ASB members, to motivate your students and colleagues to attend the meeting and to bring their innovations and ideas to share with other attendees. Now is the time to empower your Association, through your efforts as scientists, teachers and students, to help enhance ASB’s role as a leader in science, science education and scientific outreach to the public. I look forward to seeing you in Spartanburg.

Literature Cited:

Zack Murrell, ASB President

Incoming President of ASB Zack Murrell (right) receives the gavel from now Past President Donald H. Roush.
Outgoing President and now Past President of ASB Donald H. Roush (right) receives a plaque of appreciation from incoming President Zack Murrell.

Outgoing President and now Past President of ASB Donald H. Roush bids farewell to the Friday Night Banquet audience, and expresses his pleasure in having served ASB as President.
EVENTS OF THE 2013 ANNUAL MEETING
IN CHARLESTON, WEST VIRGINIA

HOSTED BY
MARSHALL UNIVERSITY, HUNTINGTON, WEST VIRGINIA

ASB FELLOW DESIGNATED
WORLD RENOWNED BOTANIST HONORED

Newest ASB Fellow: Dr. Peter H. Raven

At our most recent ASB meeting in West Virginia, our third ASB Fellow was recognized. During my term as ASB President, I had the privilege of recognizing our second recipient Elsie Quarterman. Due to her age and being unable to travel to our meeting, she was presented her medallion and signed the Book of ASB Fellows at her home in Nashville, TN. Our third ASB Fellow, Peter Raven, was able to attend the meeting in Charleston, WV and was recognized at the Friday evening awards banquet.

Dr. Raven was born in Shanghai, China and returned to the United States for his formal education. He received his undergraduate degree in Biology from the University of California, Berkeley and finished his Ph.D. in Botany from the University of California, Los Angeles. After teaching at Stanford University, he became the Director of the Missouri Botanical Garden until his position was renamed President and Director in 2006. Under his leadership the Missouri Botanical Garden has become a world class center for botanical research, education and horticulture display. He retired as President and Director after 40 years to become President Emeritus and consultant through 2014. During his tenure at the Missouri Botanical Garden, he has served on numerous university faculties primarily as the Engleman Professor of Botany at Washington University, St. Louis. He has received numerous honorary degrees in this country as well as throughout the world.

In addition to numerous books (more than eighteen) covering diverse topics in botany, the environment, conservation as well as species diversity, Dr. Raven has authored numerous reports and scientific papers (more than 450). He is Co-editor of the Flora of China, an international project to catalogue all the plants of China. He has served as a technical advisor for numerous films and movie productions. He is the author or co-author of several widely used textbooks used in universities around the world. In recognition of his work in science and conservation, Dr. Raven is the recipient of many awards and prizes. These include the U.S. National Medal of Science, the highest award recognizing scientific achievements in this country; the International Prize for Biology from Japan; Environmental Prize of the Institute de la Vie; the Volvo Environment Prize; the Tyler Prize for Environmental Achievement; the Sasakawa Environment Prize; the Society for Conservation Biology Distinguished Service Award, and the Peter H. Raven Award for Scientific Outreach, which was created in his honor. He was awarded the Engler Medal from the XVI International Botanical Congress, for distinguished lifetime service to plant taxonomy.
Dr. Raven has held Guggenheim and John D. and Catherine T. MacArthur Foundation Fellowships.

During his distinguished career, Dr. Raven has served as President, Chair or member of myriad organizations or boards. Just a few of these include service as President of Sigma Xi, AAAS, AIBS, Organization of Tropical Studies and the Botanical Society of America. He has served as Chair of the National Geographic Society’s Committee for Research and Exploration; National Museum Service Board; and National Research Council Committee of the National Biological Survey. He has served as a member of the President’s Committee of Advisors on Science and Technology; Home Secretary of the National Academy of Sciences; a member in academies of science in Argentina, China, India, Italy, Russia, and belongs to the Pontifical Academy of Sciences as well as being inducted into the American Academy of Achievement. Dr. Raven is a fellow of the American Academy of Arts and Sciences, Linnean Society, California Academy of Sciences, and Indian National Sciences Academy. He is a member of NSF; Royal Danish Academy of Sciences and Letters; Royal Swedish Academy of Sciences; the Royal Society of New Zealand and the National Research Council.

The list of accomplishments continues on and on and on. Dr. Raven spends much of his current time speaking and writing on the needs for biodiversity and species conservation. His passion for botany, environment, conservation and species diversity and preservation lead Time Magazine to declare him a “Hero of the Planet”. A lasting legacy will be his dedicated service as the leader and botanical scientist at the Missouri Botanical Garden. Its service to other scientists and the general public will be critical in educating the world to the importance of plants and the environment in the future.

Welcome Dr. Peter Raven as our newest ASB Fellow.

Respectfully submitted,

Don Roush, Past ASB President

Peter H. Raven (right) receives the ASB Fellow Medallion from ASB President Donald H. Roush.

Peter H. Raven expresses his appreciation on being designated as ASB Fellow.
ASB Fellow Peter H. Raven (center) with ASB President Donald H. Roush (left) and ASB President-Elect Zack Murrell (right).

ASB Fellow Peter H. Raven (center) with “the ASB Sisters” from left to right: Patricia Parr, Patricia Cox, Kim Marie Tolson, Diane Nelson, and Eloise Carter.
The 2013 Association of Southeastern Biologists Meritorious Teaching Award was presented to Dr. Kim Marie Tolson, of the University of Louisiana, Monroe at the 74th annual meeting of the Association in Charleston, WV by the award committee chair, Dr. Dwayne Wise. This prestigious award is sponsored by Patron Member Carolina Biological Supply Company, Burlington, North Carolina, and includes a plaque, a check for $1500, and copies of letters supporting the awardee’s nomination. The following brief biographical sketch and selected quotations from the letters were drawn from the materials supporting the nomination.

Biographical Sketch for Kim Marie Tolson

Education:
Ph.D. in Pharmacology/Toxicology (August 1988), Northeast Louisiana University, Monroe, LA, Dissertation: Neurotoxic actions of the synthetic pyrethroid fenvalerate in the rat.
B.S. in Wildlife Conservation and Management, summa cum laude (Nov. 1979) Louisiana Tech University, Ruston, LA

Employment:
2011- Marx Endowed Professorship in Biology
2008 - Graduate Coordinator, ULM College of Arts and Sciences
2007 - Professor of Biology, ULM
2001 - Graduate Coordinator, ULM Department of Biology
1998-2000 - Interim Head, Department of Biology, The University of Louisiana at Monroe
1994-2007 - Associate Professor (Graduate faculty with tenure), Department of Biology, The University of Louisiana at Monroe
Jan. 1996 to May 1997 held a dual appointment with the School of Pharmacy and the Department of Biology
1988-1994 - Assistant Professor (Graduate faculty), Department of Biology, The University of Louisiana at Monroe

Teaching:
*Comparative Physiology (Zool. 511)
*Graduate Seminar (Biol. 507)
*Game Mammals & Fur Bearers and Lab (Biol. 4086)
*Game Birds and Lab (Biol. 4088)
2013 Meeting

*Mammalogy and Lab (Biol. 4082)
*Ornithology Lab (Zool. 432), Invited Lecturer
Human Physiology I, II (Biol. 311, 312)
Human Physiology Lab (Biol. 3013)
Human Anatomy & Physiology (Biol. 2026, online course)
Human Anatomy and Human Anatomy Lab (Biol. 240 and 241)
Human Anatomy and Physiology (Zool. 205)
Introductory Biology Lab (Biol. 121)
Human A & P I, II, and Labs (Zool. 111/113 and 112/114)
Introductory Zoology (Zool. 101)
Biology for Non-Majors and Lab (Biol. 101/102 and 110)
Introduction to Scientific Research (Biol. 103), Team taught class
*Drug Abuse Education (Curriculum and Instruction 430)
Dental Hygiene Seminar (Dhyg. 423), Team taught class
*Introductory Toxicology (Phar. 489), Invited Lecturer
Pharmacology I, Molecular Pharmacology (Phar. 411)
Pharmacology II, Molecular Pharmacology (Phar. 412)
Principles of Pharmacology (Phar. 280)
Toxicology and the Environment (Toxc. 101), Invited Lecturer

*Graduate level courses

University Service:
ULM/NCAA Scholarship Appeals Committee, 2004-2006
Organizing Committee, ULM Graduate Student Recruitment Fair, 2003
Search Committee, ULM Vice-President for University Advancement, 2002-2003
ULM Rising to the Challenge, Team Member 2002
ULM Safety Committee, 2002-2004; ad hoc committee on Building Safety, 2002
ULM Faculty Athletic Council, Member 1995-2007, Secretary 1997-2006, Chair
Greater NLU Fund Drive Committee, 1996, 1997, 1999
NLU Alumni Association Faculty Awards Selection Committee, College of P&AS, 1998
SACS Principles & Philosophy of Accreditation Committee, 1997-1999
NLU Wellness Committee, 1992-1998
NLU Environmental Health and Safety Committee, 1993-1999
Chair, NLU Teaching & Learning Ctr. Advisory Committee, 1996-99; Member 1994-99
College of Arts and Sciences Faculty Awards Committee, 2010-2012
College of A&S Dean’s Fund for Research and Creative Projects, 2008-present
College of Arts & Sciences Graduate Committee, 2006-present; Chair, 2008-present
College of Arts & Sciences ad hoc Committee on Faculty Evaluation, 2006
College of Arts & Sciences Academic Appeals Committee, 2002-2004
College of P&AS Curriculum Committee, 1997-1999
College of P&AS ISEF Scientific Review Committee, 1988-1992
Chair, Dept. of Biology Search Committee for A&P Instructor, 2012-2013
Dept. of Biology Search Committee for Geneticist, 2011
Dept. of Biology 50th Anniversary Celebration Committee, 2010
Dept. of Biology P & T Committee, 2009-2013
Dept. of Mathematics and Physics P & T Committee 2009-2010
Dept. of Geosciences P&T Committee, 2009
Dept. of Biology Scholarship Committee, 2009
Dept. of Biology Search Committee for Physiologist, 2008-2009
Chair, Dept. of Biology Space Utilization Committee, 2008-2009
Chair, Dept. of Biology Graduate Studies Committee, 2002-present
Secretary, Dept. of Biology P & T Committee, 2007-2008
Co-Chair, Dept. of Biology Assessment Committee, 2007-2009
Dept. of Biology Search Committee for Department Head, 2007-2008
Chair, Dept. of Biology Search Committee for 2 tenure-track faculty, 2005-2005
Chair, Dept. of Biology Search Committee for Fisheries Biologist, 2004-2005
Chair, Dept. of Biology Search Committee for Plant Biologist, 2003
Dept. of Biology Search Committee for Department Head, 2003
Dept. of Biology Recruitment and Retention Committee, 2003
Dept. of Biology Safety Committee, 2003-2005
Chair, Dept. of Biology Curriculum Committee, 1997-2002
Chair, Dept. of Biology Search Committee for Anatomy & Physiology position, 1996
Co-Chair, Dept. of Biology Steering Committee, 1996-1997
Chair, Dept. of Biology Undergraduate Studies Committee, 1996-1997 (revised)
Secretary, Dept. of Biology Promotion and Tenure Committee, 1994-1997
Dept. of Biology Search Committee for Microbiologist, 1994
Dept. of Biology ad hoc committee to revise introductory course sequence, 1993
Chair, Dept. of Biology Undergraduate Committee, 1995-1996; Member 1990-1996
Dept. of Biology Student Recruitment Committee, 1988-1989

Professional Affiliations and Activities:
Association of Southeastern Biologists
Louisiana Assoc. of Professional Biologists
Ark-La-Miss Wildlife Study Group
Louisiana Academy of Sciences
Past President, Member of Executive Committee, LAPB/La TWS, 2012-2014
Member, ASB Silent Auction Committee, 2012 and 2013
Organizing Committee, 6th Ark-La-Miss Wildlife Symposium, Ruston, LA, Feb. 12, 2011
President, LAPB/La TWS, 2010-2012
Meeting Organizer and Program Chair, LAPB Fall Symposium, Lafayette, LA, Aug 2010
Member, ASB Resolutions Committee, 2010-2011
Judge, 2010 ULM Student Research Symposium
Meeting Organizer and Program Chair, LAPB Fall Symposium, Lafayette, LA, Aug 2009
Session Moderator, ASB Annual Meeting, Birmingham, AL, April 2009
President-Elect, Louisiana Association of Professional Biologists, 2008-2010
ASB Past President’s Council, 2009-present
Session Moderator, LAPB Fall Symposium, Lafayette, LA, August 2008
Past President, Member of the Executive Committee, ASB, 2007-2008
Session Moderator, LAPB Fall Symposium, Lafayette, LA, August 2007
Organizing Committee, 4th Ark-La-Miss Wildlife Symposium, Ruston, LA, Feb. 2007
President, Association of Southeastern Biologists, 2006-2007
Session Moderator, LAPB Fall Symposium, Lafayette, LA, August 2005
Judge, 2006 Southeast Regional Forestry Conclave, LTU, Ruston, LA, March 10, 2006
Session Moderator, ASB Annual Meeting, Gatlinburg, TN, March 2006
President-Elect, Association of Southeastern Biologists, 2005-2006
Session Moderator, LAPB Fall Symposium, Lafayette, LA, August 2005
Organizing Committee, 3rd Ark-La-Miss Wildlife Symposium, Ruston, LA, May 2005
Session Moderator, ULM Student Research Symposium, April 2004, April 2005
Organizing Committee, 2nd Ark-La-Miss Wildlife Symposium, Ruston, LA, March 2004
Organizing Committee, 1st Ark-La-Miss Wildlife Symposium, Ruston, LA, August 2003
Session Moderator, ASB Annual Meeting, Washington, DC, April 2003
Founding Member, Ark-La-Miss Wildlife Study Group, 2003
Vice-President, Association of Southeastern Biologists, 2003-2004
Judge, 2003 ULM Student Research Symposium
Chair, ASB Enrichment Fund, 2001-2006
Chair, ASB Place of Meeting Committee, 2000 and 2003; Member 1998-2004
ASB Executive Committee Member-at-Large, 2000-2003
Chair, ASB Local Arrangements Committee for 59th Annual Meeting, April 1998
Organizer/Coordinator, White-tailed Deer Management Seminar, NLU, August 1996
Commissioner, Ouachita Parish Mosquito Abatement District, 1992-1996
Director, Louisiana Region III Science and Engineering Fair, 1992-1995

Selected Professional Presentations and Publications:

Oboyle, ML and KM Tolson (2011) The biological potential of the feral pig (Sus scrofa) in Louisiana. Association of Southeastern Biologists, Huntsville, AL, Southeastern Biology, Vol. 58, No. 3.


Rice, CL and KM Tolson (2008) Roost site selection by two Vespertilionid bats (*Myotis australiparius* and *Corynorhinus rafinesquii*) in a northeast Louisiana bottomland hardwood forest. Association of Southeastern Biologists, Spartanburg, SC. Southeastern Biology, Vol. 55, No. 3.


Selected Quotations from Letters of Support

“She is passionate in her support of her students and an excellent teacher who cares deeply about student engagement and offers an hands-on approach that is often sorely missed in many biology college courses.”

“I enjoyed her teaching style so much that I strive to one day become a professor like Dr. Tolson.”

“Certain teachers have it – that knack for inspiring students and getting them interested in biology. Dr. Tolson is one such teacher.”

“Dr. Tolson’s enthusiasm for biology and teaching is infectious. These are the qualities that make her an effective and engaging teacher.”

“Dr. Tolson always had a way of making the subject of Biology fun and exciting and was extremely helpful as a mentor and advisor. Dr. Tolson’s knowledge of and passion for biology is evident from the energy she puts into her classes and the opportunities she provides for her students to succeed.”

“She is an engaging and insightful teacher in the classroom and out in the field and continually challenged me to think out of the box while promoting critical thinking.”

“She expertly guided me through my research project but allowed me the freedom to make decisions on my own and learn from the many mistakes I made. Dr. Tolson challenged me not only to conduct the highest quality research but to also present my results through local, regional, and national conferences including ASB annual meetings. Dr. Tolson’s ability to connect with her students is unlike any other professor I have met.”

“In the classroom Dr. Tolson made biology engaging and relevant. For example Dr. Tolson’s wildlife management classes made clear the importance of biology to successful management, conservation, and policy. However, the most unique and memorable classroom experiences were the labs. From identification of lung worms in coyotes to squirrel check stations, Dr. Tolson got us into the field and our hands dirty. In retrospect, I would say I had more profound lab experiences with Dr. Tolson than any other teacher. These experiences shape the classroom and lab experiences I hope to create as a teacher.”

“Dr. Tolson’s willingness to do everything she can to help students succeed and give them the opportunity to discover and explore make her a very valuable asset to the Department of Biology at ULM. Her devotion to her students and teaching makes her most deserving of the honor of this award.”
Kim Marie Tolson (right) receives the 2013 ASB Meritorious Teaching Award from award committee chair, Dwayne Wise.

Kim Marie Tolson expresses her appreciation on receiving the award.
Kim Marie Tolson is congratulated by ASB President-Elect Zack Murrell.

Kim Marie Tolson (holding award plaque) is congratulated by her graduate students from left to right: Cody Haynes, Rachael Elkharash, and William Futch.
ASB Lucrecia Herr
Outstanding Biology Teacher Award

Award chair Dr. W. Michael Dennis reported that no award was made this year.

2013 RESEARCH AWARD RECIPIENTS

ASB SENIOR RESEARCH AWARD

The ASB Senior Research Award sponsored by ASB Patron Member Marilyn Pendley, Hudson, North Carolina, was presented by award committee chair John Carr to Matthew J. Heard, Department of Biology, Winthrop University, Rock Hill, South Carolina, for his manuscript coauthored with Dov F. Sax, Department of Ecology and Evolutionary Biology, Brown University, Providence, Rhode Island, entitled “Coexistence between native and exotic species is facilitated by asymmetries in competitive ability and susceptibility to herbivores.” The manuscript has been published earlier this year in Ecology Letters, 16:206-213 (2013). His paper presentation at the annual meeting with the same coauthor is entitled “Long-term coexistence between native and exotic plant species is facilitated by trade-offs in biotic interactions,” SE Biology Abstract 28, 60/3, pages 180 and 181.

Dr. Heard submitted the following autobiography to the Journal Editor.

Matt Heard is an Assistant Professor of Biology at Winthrop University in Rock Hill, SC. He received his B.A. from the University of Tennessee in 2004 where he worked with Dr. Michael McKinney and Dr. Sean McMahon on forecasting the impacts of species invasions in Great Smoky Mountains National Park. He earned his Ph.D. from Brown University working with Dr. Dov Sax to determine the mechanisms that facilitate native and exotic plant coexistence. After finishing his Ph.D., he received a Voss Postdoctoral Fellowship from the Environmental Change Initiative at Brown University where he worked with Dr. Katherine Smith and Dr. Stephen McGarvey on understanding the role infectious diseases play in driving animals toward extinction. His current research program at Winthrop is highly interdisciplinary and focuses on understanding the impact humans are having on the world. Members of his lab are working on topics including determining the drivers of infectious disease in wildlife and humans, examining the long-term impacts of species invasions, and trying to better understand what facilitates species diversity in human-dominated ecosystems. Matt has published in some of the top journals in ecology and conservation biology and has co-authored a number of papers with students he has mentored.
Matthew J. Heard (left) receives the ASB Senior Research Award from award committee chair John Carr.

**ASB Student Research Award**

The ASB Student Research Award sponsored by ASB Patron Member Martin Microscope Company, Easley, South Carolina, was presented by ASB President-Elect Zack Murrell to Sheri A. Shiflett, Department of Biology, Virginia Commonwealth University, Richmond, Virginia for her paper coauthored with Julie C. Zinnert, VCU and U.S. Army ERDC, Fluorescence Spectroscopy Lab, Alexandria, Virginia, and Donald R. Young, VCU, entitled “Physiology of *Myrica cerifera* is conserved across a barrier island chronosequence of shrub thicket development: a mechanism of shrub expansion,” *SE Biology* Abstract 172, 60/3, page 236.

Sheri A. Shiflett (left) receives the ASB Student Research Award from ASB President-Elect Zack Murrell.
BROOKS/COLE CENGAGE LEARNING STUDENT RESEARCH AWARD IN AQUATIC BIOLOGY

The Brooks/Cole Cengage Learning Student Research Award in Aquatic Biology sponsored by Fred Hudson, Senior Math and Science Representative for Cengage Learning-Brooks/Cole Publishing Company in the Southeast, was presented by ASB Present-Elect Zack Murrell to Madeleine M. Kern, Department of Biology, Davidson College, Davidson, North Carolina, for her paper coauthored with Jacquelyn C. Guzy, Jeffrey E. Lovich, Southwest Biological Science Center, Flagstaff, Arizona, J. Whitfield Gibbons, Savannah River Ecology Lab, Aiken, South Carolina, and Michael E. Dorcas, entitled “Factors causing deviation from optimal egg size theory in the diamondback terrapin (Malaclemys terrapin),” SE Biology Abstract 181, 60/3, pages 240 and 241.

Madeleine M. Kern (left) receives the Brooks/Cole Cengage Learning Student Research Award in Aquatic Biology from ASB President-Elect Zack Murrell.

ASB RESEARCH AWARD IN MICROBIOLOGY

The ASB Research Award in Microbiology sponsored by ASB, was presented by ASB President-Elect Zack Murrell to Matthew Boyce, Department of Biology, Virginia Wesleyan College, Norfolk, Virginia, for his paper coauthored with Philip Rock, entitled “A metagenomic comparison of the microflora from vermicompost with the intestinal microflora from the composting worm Eisenia fetida,” SE Biology Abstract 105, 60/3, page 210.
Matthew Boyce (left) receives the ASB Research Award in Microbiology from ASB President-Elect Zack Murrell.

**ASB Student Poster Award**

The ASB Student Poster Award sponsored by ASB Patron Member AST Environmental, Decatur, Alabama, was a tie and presented to two students. Award Committee member William Ensign presented the award to (1) Carol B. Starkey, Department of Biology, Marshall University, Huntington, West Virginia, for her poster coauthored with Katherine E. Forester, and Brian L. Antonsen, entitled “Subthreshold toxic effects of the herbicide Atrazine on learning and behavior in *Procambarus clarkii*,” *SE Biology* Abstract P92, 60/3, pages 277 and 278. (2) Lauren E. Carter, Department of Biology, Davidson College, Davidson, North Carolina, for her poster coauthored with Margaret M. Stebbins, Jackquelyn C. Guzy, Kristen K. Cecala, and Michael E. Dorcas, entitled “Upland habitat use of spotted salamanders (*Ambystoma maculatum*) in Mecklenburg County, NC,” *SE Biology* Abstract P124, 60/3, page 290.
THE NORTH CAROLINA BOTANICAL GARDEN AWARD

The North Carolina Botanical Garden Award sponsored by the NCBG, Chapel Hill, North Carolina, was presented by award committee chair Johnny Randall to April P. Punsalan, Department of Biology, Western Carolina University, Cullowhee, North Carolina, for her paper coauthored with Beverly Collins, and Laura DeWald, entitled "The germination ecology of Helonias bullata (swamp pink)," SE Biology Abstract 90, 60/3, page 204.

April Punsalan

EUGENE P. ODUM AWARD

The Eugene P. Odum Award sponsored by the Southeastern Chapter of the Ecological Society of America was presented by award committee chair Kimberly J. Bolyard to Kyle A. Palmquist, Curriculum for the Environment and Ecology, University of North Carolina, Chapel Hill, North Carolina, for her paper entitled "Species frequency patterns in the longleaf pine (Pinus palustris Mill.) ecosystem: characterizing the identity and dynamics of infrequent plant species," SE Biology Abstract 67, 60/3, page 196.

An honorable Mention was also awarded by award committee chair Kimberly J. Bolyard to Teresa Moody, Center for Wildlife Health, University of Tennessee, Knoxville, Tennessee, for her paper coauthored with Graham Hickling, and Richard Gerhold, College of Veterinary Medicine, University of Tennessee, Knoxville, Tennessee, entitled "Skinks are ‘dilution hosts’ for the Lyme disease bacterium in the southeastern U.S.,” SE Biology Abstract 127, 60/3, page 219.
Kyle A. Palmquist (right) receives the Eugene P. Odum Award from award committee chair Kimberly J. Bolyard (center), and Teresa Moody (left) receives Honorable Mention.

**Elsie Quarterman-Catherine Keever Award**

The Elsie Quarterman-Catherine Keever Award sponsored by the Southeastern Chapter of the Ecological Society of America was awarded by chapter member David Vandermast to **Cakey Worthington**, Department of Biology, Davidson College, Davidson, North Carolina, for her poster coauthored with Corinne McCullough, Robert Spalding, and Christopher J. Paradise entitled “Effects of surrounding land use patterns and floral diversity on insect pollinator abundance and biodiversity,” *SE Biology* Abstract P21, 60/3, pages 251 and 252. (No photograph was taken.)

An Honorable Mention was also awarded by chapter member David Vandermast to **Jordan Holman**, Fairland High School, Proctorville, Ohio, for his poster entitled “Affects of time of day, temperature, and humidity on *Atta cephalotes,*” *SE Biology* Abstract P61, 60/3, page 266. (No photograph was taken.)

**Botanical Society of America Southeastern Section Student Awards**

The Botanical Society of America Southeastern Section Student Award sponsored by the SE Section of the BSA presented two awards—one for best paper and one for best poster. Both awards were presented by award committee chair Zack Murrell.
1. Paper Presentation – **Ryan Dorkoski**, Department of Environmental and Plant Biology, Ohio University, Athens, Ohio, for his paper coauthored with Jared L. DeForest, entitled “The consequences of acid rain deposition on fine-root biomass in temperate deciduous forest soils in southeastern Ohio,” *SE Biology* Abstract 46, 60/3, pages 187 and 188.

   ![Ryan Dorkoski](image1)

2. Poster Presentation – **Anastasia M. Woodard**, Department of Biological Sciences, Arkansas State University, Jonesboro, Arkansas, for her poster coauthored with Consuelo De Moraes and Mark Mescher, Center for Chemical Ecology, Pennsylvania State University, State College, Pennsylvania, and Travis D. Marsico, entitled “A pricklypear’s cry decoded: characterization of plant volatiles released by *Opuntia humifusa* (Cactaceae) in response to native and newly-associated cactus boring moth herbivory (Lepidoptera: Pyralidae),” *SE Biology* Abstract P159, 60/3, pages 302 and 303.

   ![Anastasia M. Woodard](image2)

   Anastasia M. Woodard (left) receives the BSA Southeastern Section Student Award for best poster from award committee chair Zack Murrell.
**THE UNIVERSITY OF SOUTH CAROLINA HEBARIUM AWARD**

The award committee chair, John Nelson, reported that the award committee for the award, sponsored by the A. C. Moore Herbarium at USC, made no awards this year.

**ASB GRADUATE STUDENT TRAVEL AWARDS**

The following graduate students received travel awards from ASB to attend the annual meeting in Charleston, West Virginia. Selections were made by the ASB Graduate Student Support Awards Committee Members Michael Gangloff (chair), Lisa Kelly, and Jennifer Borgo. These awards are sponsored by the ASB Silent Auction.

**Spencer N. Bissett** – Virginia Commonwealth University, Richmond, Virginia  
**Laura M. Boggess** – Appalachian State University, Boone, North Carolina  
**Casey Carpenter** – University of Tennessee, Chattanooga, Tennessee  
**Samira R. Elkharaish** – University of Louisiana, Monroe, Louisiana  
**William Futch** – University of Louisiana, Monroe, Louisiana  
**Amelia Harris** – University of Tennessee, Chattanooga, Tennessee  
**Morgan Harris** – Appalachian State University, Boone, North Carolina  
**James C. Haynes** – University of Louisiana, Monroe, Louisiana  
**J. Murray Hyde** – Troy State University, Troy, Alabama  
**Jayne Lampley** – Jacksonville State University, Jacksonville, Alabama  
**Linda A. Major** – Jacksonville State University, Jacksonville, Alabama  
**Kevin L. McDonald** – Jacksonville State University, Jacksonville, Alabama  
**Bijay B. Niraula** – Troy State University, Troy, Alabama  
**Kathryn Rogers** – Old Dominion University, Norfolk, Virginia  
**Sheri Shiflett** – Virginia Commonwealth University, Richmond, Virginia  
**Stephen Via** – Virginia Commonwealth University, Richmond, Virginia  
**Lindsay White** – Jacksonville State University, Jacksonville, Alabama  
**John R. Williams** – Jacksonville State University, Jacksonville, Alabama  
**David Wilson** – University of Tennessee, Chattanooga, Tennessee  
**Anastasia M. Woodard** – Arkansas State University, Conway, Arkansas

**SOUTHERN APPALACHIAN BOTANICAL SOCIETY AWARDS**

Presented at the Annual SABS/BSA breakfast meeting on April 12, 2013.

**Student Presentation Awards**

The Student Presentation Awards were established in 2011 to reward outstanding undergraduate or graduate student botanical presentations at the annual Association of Southeastern Biologists meeting. For 2013, an award was presented for the best student poster presentation. Applicants must be current members of SABS. The award includes an honorarium of $300. The award went to Gwendolyn Casebeer, Biology Department, University of North Carolina at Asheville, for her poster presentation "Genetic variation in the rare, clonal shrub *Spirea virginiana* Britton (Virginia spirea) and implications for its conservation in

**Earl Core Student Research Award**

Dr. Earl Core was a major force in the founding of the Southern Appalachian Botanical Club in 1936. The annual Core Student Award was established by the society to provide financial assistance in support of student research projects in plant taxonomy, systematics, and ecology. This year three proposals were funded, each for $500.

**Clayton M. Costa**, Department of Biological Sciences, Towson University, Towson, Maryland, was funded for his research proposal entitled “Molecular phylogeny of golden asters, subtribe Chrysopsidinae (Asteraceae, Astereae), based on nuclear ribosomal and chloroplast sequence data.” His research advisor is Roland Roberts.

**Renee Fortner**, Department of Biology, East Carolina University, Greenville, North Carolina, was funded for her proposal “Critical Biological Knowledge of *Thalictrum cooleyi* (Ranunculaceae) for Conservation and Recovery.” She will be working under the mentorship of Claudia Jolls.

**Karoline Oldham**, Department of Environmental Science and Policy, George Mason University, Fairfax, Virginia, was funded for her research under her faculty advisor Andrea Weeks. The proposal was titled “Geographical history and infraspecific morphological variation of the hemiparasitic wildflower, American Cow-wheat (*Melampyrum lineare*; Orobanchaceae”).

**Richard and Minnie Windler Award**

The Richard and Minnie Windler Award was established in 1990 at the annual meeting of the SABS by Dr. Donald R. Windler of Towson University as a memorial to his parents. The award is presented annually to the author or authors of the best systematic botany paper published in *Castanea* during the previous year. The eligible papers may fall into the broad area of plant systematics, including floristic, experimental, revisionary, and nomenclatural studies.

The 2013 Richard and Minnie Windler Award winners for the best systematics botany paper published in *Castanea* during 2012 were **Dr. Joey Shaw, Dr. Hill Craddock, and Meagan Binkley**, M.S., for their work “Phylogeny and phylogeography of North American *Castanea* Mill. (Fagaceae) using cpDNA suggests gene sharing in the southern Appalachians” (Shaw, J., J. H. Craddock, M.A. Binkley, *Castanea* 77(2): 186-211). They received an award of $500.

**Elizabeth Ann Bartholomew Award**

The society annually presents the award in memory of Elizabeth Ann Bartholomew’s untiring service to the public, to plant systematics, and to the organization. The award is presented to individuals who have also distinguished
themselves in professional and public service that advances our knowledge and appreciation of the world of plants and their scientific, cultural, and aesthetic values, or exceptional service to the society.

Dr. Stewart A. Ware, Emeritus Professor of Biology at the College of William and Mary in Williamsburg, Virginia received the award for his outstanding service in 40 years of teaching, ecological research, and leadership as an editor for several journals. A detailed presentation of his accomplishments can be found in the September 2013 issue of Castanea.

Stewart A. Ware (right) receives the Elizabeth Ann Bartholomew Award from award committee chair Conley K. McMullen (center) and from SABS President Wendy Zomlefer.

SOCIETY OF WETLAND SCIENTISTS
SOUTH ATLANTIC CHAPTER
STUDENT TRAVEL AWARD

Chapter award chair David E. Bailey reported that Matthew R. Semcheski was the recipient of a student travel award to the annual ASB meeting from the South Atlantic Chapter of the Society of Wetland Scientists. Award recipients must be currently enrolled students, conduct research pertaining to wetland science, and present their research at the ASB annual meeting. A check for $100.00 was mailed to Matthew by chapter Secretary/Treasurer William H. Conner. (No photograph was taken.)

Matthew R. Semcheski, Department of Biological Sciences, Old Dominion University, Norfolk, Virginia, for his paper coauthored with Todd A. Egerton, Wesley Myers, Department of Ocean, Earth, and Atmospheric Sciences, and Harold G. Marshall, entitled “Benthic microalgal composition in lower Chesapeake Bay intertidal wetlands,” SE Biology Abstract 121, 60/3, page 216.
BETA BETA BETA NATIONAL BIOLOGICAL HONOR SOCIETY
SOUTHEASTERN REGION

OUTSTANDING PAPER AND POSTER AWARDS FOR 2013

At the 56th Tri-Beta Annual Meeting held with the 74th ASB Annual Meeting, Lee Sutton, Southeastern Region District I Director, and Christi Magrath, Southeastern Region II Director, presented the following awards.

Southeastern District I Paper Session
Frank J. Brooks Paper Award Winner


Southeastern Districts II Paper Session
Frank J. Brooks Paper Award Winner

Combined Southeastern Districts I and II Paper Session
Frank J. Brooks Paper Award Winner

Anna Austin, Mu Epsilon, Troy University, Troy Alabama. “Filamentation in yeast strains treated with antibiotics,” SE Biology Abstract 60/3, page 322.

Southeastern District I Poster Session
John C. Johnson Poster Award Winner

Brian J. Bement, Sigma Psi, Florida Institute of Technology, Melbourne, Florida, “Temperature induced modulation of feeding kinematics in a nonnative

Southeastern District II Poster Session
John C. Johnson Poster Award Winner

Sydney L. Worthy, Mu Omicron, Columbus State University, Columbus, Georgia. “Discriminating woody plant species in a warm-temperate flora using plant DNA barcodes,” SE Biology Abstract 60/3, page 336.
ASB EXECUTIVE COMMITTEE MEMBERS AND NEWLY DESIGNATED ASB FELLOW
AT THE ANNUAL MEETING IN CHARLESTON, WEST VIRGINIA

From left to right: James Caponetti, Peter Raven (ASB Fellow), William Ensign, Roland Roberts, Patricia Cox, Rebecca Cook, Ashley Morris, Conley McMullen, Judy Awong-Tatylor, Edgar Lickey, Sarah Noble, Scott Jewell, Joey Shaw, Tim Atkinson, Donald Roush, and Zack Murrell.
Wednesday, April 10, 2013 Events

South Hall of the Civic Center Setup
Front – Registration Quadrangle
Middle – Exhibitors’ Booths
Back – Poster Displays

SABS Executive Committee Meeting
Wednesday, April 10, 2013
ASB Executive Committee Meeting
Wednesday, April 10, 2013

From left to right: Drs. Conley McMullen, Donald Roush, Sarah Noble, William Ensign, Judy Awong-Taylor, Patricia Cox, Roland Roberts, James Caponetti, and John Herr.

From left to right: Irene Kokkala, Ashley Morris, Christi Magrath, Zack Murrell, Rebecca Cook, Scott Jewell, and Tim Atkinson.
The ASB Plenary Session
Wednesday, April 10, 2013

The Plenary Session was opened by ASB President Dr. Donald H. Roush at 7:30 p.m. EDST. The audience was welcomed by Dr. Charles (Chuck) Somerville, Dean of the College of Science at Marshall University. ASB Vice President Dr. Rebecca Ann Cook introduced the featured plenary speaker, Dr. Meredith Blackwell, Boyd Professor of Biology, Louisiana State University, Baton Rouge, Louisiana. The title of her talk was *Fungi that Fly: Fungi and Their Associations with Insects*
The Plenary Speaker and Audience

“The ASB Sisters” at the Plenary Session

From left to right: Drs. Patricia Cox, Diane Nelson, Patricia Parr, Kim Marie Tolson, and Eloise Carter.
The Plenary Speaker with “The ASB Sisters” at the Friday Night Awards Banquet.

From left to right: Drs. Eloise Carter, Diane Nelson, Meredith Blackwell (Plenary Speaker), Patricia Cox, Kim Marie Tolson (winner of the ASB Meritorious Teaching Award), and Patricia Parr.
Wednesday Evening Plenary Welcoming Reception
Wednesday Evening Plenary Welcoming Reception
Wednesday Evening Plenary Welcoming Reception
Exhibitors at the Annual Meeting

A2Z Convention Services

Academic Book Exhibits
Exhibitors at the Annual Meeting

Animal Welfare Institute

Association of Southeastern Biologists
Exhibitors at the Annual Meeting

Associated Microscope

AST Environmental
Exhibitors at the Annual Meeting

Beta Beta Beta

Biopac Systems, Inc.
Exhibitors at the Annual Meeting

Carolina Biological Supply Company

Conviron
Exhibitors at the Annual Meeting

Martin Microscope

Percival
Exhibitors at the Annual Meeting

Southern Appalachian Botanical Society

Southern Appalachian Botanical Society
Exhibitors at the Annual Meeting

Vashaw Scientific, Inc.

Whatdidyoubringme
Thursday ASB Past Presidents’ Breakfast

Front row seated from left to right: Drs. Raymond Flagg, Donald Roush, Patricia Parr, Patricia Cox, Howard Neufeld, and Andrew Ash.
Back row standing from left to right: Drs. Kenneth Shull, Eloise Carter, Michael Dennis, Robert Martin, John Herr, Kim Marie Tolson, James Hardin, and Dwayne Wise.

Thursday Human Diversity Luncheon and Meeting
Thursday Society of Herbarium Curators Luncheon and Meeting

Presided by Zack Murrell
Thursday Society of Wetland Scientists South Atlantic Chapter
Luncheon and Meeting

Thursday Workshop

Biopac Systems, Inc.
Thursday Workshop

Martin Microscope Company

Thursday Silent Auction

Display of Items
Thursday Silent Auction

Selecting and Bidding

Selecting and Bidding
Thursday ASB Paper Presentations Session 1

Claudia Jolls

Kari Harris

Alex Anning

Russ Williams
Thursday ASB Paper Presentations Session 2

Lindsay White

Kunsiri Chaw Grubbs (Pum)

Eric Duncan

Jose Castano
Thursday ASB Paper Presentations Session 2

Helen Fowowe
Elizabeth Hillard
Ryan Dorkoski
Corey Kapolka
Thursday ASB Paper Presentations Session 3

Deborah Beutler

Jillian Kelly

Richard Stalter

Scott Kim
Thursday ASB Paper Presentations Session 4

Angela Getz

April Punsalan

Neil Billington

Michael Dennis
Thursday ASB Poster Session 1

Hazel Osungu-Buyu

Joshua Campbell
Thursday ASB Poster Session 1

Devin Carter and Holland Hendrick

Andrew Hart
Thursday ASB Poster Session 1

Ploy Kurdmongkotham

Bryan Farmer
Thursday ASB Poster Session 1

Emma Holt

Nicholas Stewart
Thursday ASB Poster Session 2

Katherine Forester (left) and Carol Starkey
Carol was co-winner with Lauren Carter of the ASB Student Poster Award

Gregory Love
Thursday ASB Poster Session 2

Caroline Matchett

William Futch
Thursday ASB Poster Session 2

Paula Kamara

William Wollman
Thursday ASB Poster Session 2

Monica Henry (left) and Stephanie Simmons

Vance Pounders (left) and Victoria Templeton
ASB Thursday Night Dinner
ASB Thursday Night Dinner
ASB Thursday Night Dinner
ASB Thursday Night Dinner
ASB Thursday Night Social/Entertainment
ASB Thursday Night Social/Entertainment
ASB Thursday Night Social/Entertainment
ASB Thursday Night Social/Entertainment
FRIDAY ASB PATRONS AND EXHIBITORS BREAKFAST

Membership Secretary Michael Held gives a report.
Friday SABS/BSA Breakfast
Friday ASB Business Meeting
Presided by President Donald Roush
Recorded by Secretary Conley McMullen

President Roush
Secretary McMullen

Business Meeting Audience
FRIDAY ASB EDUCATION COMMITTEE LUNCHEON AND MEETING
FRIDAY ASB EDUCATION COMMITTEE LUNCHEON AND MEETING

Audience
Friday ESA Luncheon and Business Meeting
Friday SABS/BSA Botany Students Reception

Conley K. McMullen (left) and ASB Fellow Peter H. Raven discussing the recently published *Flora of Virginia.*
Friday ASB Paper Presentations Session 5

Shea Harrison  
Samantha Tessel

Dennis Tarasi  
Brad Gill
Friday ASB Paper Presentations Session 6

Tiara Saray Smalls

Scottie Berk

Clayton Costa

Glenn Matlack
Friday ASB Paper Presentations Session 7

Sarah Noble

Jennifer Thomas

Bruce Sorrie

Jonathan Cooley
Friday ASB Paper Presentations Session 8

Kathy Hornberger
Mattie Lewis
Christopher Brown
John Herr
Friday ASB Poster Session 3

Abigail Smith (left) and Claudia Ortuno

Roger Jackson
Friday ASB Poster Session 3

Rachel Lester

Ben Shapiro
Friday ASB Poster Session 3

Leigh Anne Fortney

Gideon Yeboah
Friday Beta Beta Beta Joint Business Meeting

Presided by Christi Magrath – District II Director
And Paul Yokley – Regional Vice President

Dr. Magrath

Dr. Yokley

[Images of people and an audience in a meeting setting]
Friday Beta Beta Beta Joint Session Awards Ceremony
FRIDAY BETA BETA BETA PAPER PRESENTATIONS

Taylor-Patrice Leflore

Bethany Hawkins

Tyler Sloan

Scott Silvis
FRIDAY BETA BETA BETA PAPER PRESENTATIONS

Justin Bartanus

Robert Futrell

Brittany Appelboom

Canna Zheng
FRIDAY BETA BETA BETA POSTER SESSIONS

Binh Nguyen

Emily Hofmann
**Friday Beta Beta Beta Poster Sessions**

Sydney Worthy

Christopher Tavares
Friday Beta Beta Beta Poster Sessions

Robert Seilhamer

Lauren Land
FRIDAY BETA BETA BETA POSTER SESSIONS

Janesha Brown

Zeke Nichols
FRIDAY BETA BETA BETA POSTER SESSIONS

Manuel Bernal Mejia

Jessica Vincent
Friday Beta Beta Beta Poster Sessions

Sarah Hawsey (left) and Kasi Quinn

Tyler Harris
FRIDAY SYMPOSIUM/WORKSHOP

Vision and Change Leadership Fellows: Transforming Undergraduate Life Sciences

Organized by Dr. Judy Awong-Taylor

Symposium/Workshop Speakers (standing) and Audience
SYMPOSIUM/WORKSHOP SUMMARY

The Partnership for Undergraduate Life Sciences Education (PULSE) is a collaborative effort funded by NSF, NIH/NIGMS, and HHMI to catalyze change in undergraduate Life Sciences education as called for in Vision and Change in Undergraduate Biology Education: A Call to Action. As part of this effort, forty Vision and Change PULSE Leadership Fellows were selected in June 2012 and charged with inspiring and helping departments transform their programs. Since June 2012, PULSE Leadership Fellows have led workshops at various conferences, compiled on-line resources, created assessment tools, dialogued with the broader PULSE community, and collaborated with other organizations with similar missions (e.g., AIBS). This symposium was one of the first workshops where PULSE Fellows were able to showcase and beta-test some of the tools and resources developed over the first nine months. In particular, the Fellows discussed and tested the first version of the Vision & Change rubrics that articulate fundamental criteria for evaluating the level of adoption of the principles of Vision and Change in life science departments. The rubric descriptors designate different levels of adoption of Vision & Change principles from first steps to full departmental transformation. The symposium also addressed the use of resource toolkits, the Ambassadors program, and regional PULSE conferences. Participants provided useful information with regards to feedback on current products and efforts.

Through this symposium and other similar workshops, the Fellows are raising awareness of Vision & Change and PULSE, developing networks, and gathering information and feedback to help inform the future work of the Fellows. The progress of the PULSE Fellows is being captured in real time and can be followed using the “Groups” feature on the pulsecommunity.org website. The Fellows are committed to engaging the broader community in reviewing the initiatives that emerge from the working groups and to provide feedback so that these efforts will be aligned with the needs of the greater life science educational community. As more detailed plans emerge, the Fellows will involve institutions and individuals more directly in their efforts and activities. Participating PULSE Leadership Fellows at this symposium included: Drs. Judy Awong-Taylor (Georgia Gwinnett College), Melanie Lee-Brown (Guilford College), Ellen Goldey (Wofford College), April Hill (University of Richmond), Nitya Jacob (Oxford College of Emory University), Cynthia Peterson (University of Tennessee), Karen Aguirre (Coastal Carolina University) and Jo Anne Powell-Coffman (Iowa State University). ☞
Digitization was a hot topic at the 2013 Association of Southeastern Biologists’ (ASB) meeting held in Charleston, West Virginia the week of April 10. Well before the beginning of the ASB–iDigBio-sponsored digitization symposium and workshop, several conference goers had already offered important papers outlining strategies and successes in digitizing small herbaria and incorporating digitization into biodiversity field research.

Tanja Schuster, curator at the University of Maryland’s Norton-Brown Herbarium (MARY) outlined efforts in launching a virtual herbarium through the herbarium’s new website (www.nbh.psla.umd.edu). Important highlights included how federal work study students recorded 21,000 high-resolution images of MARY’s 87,000 specimens. About 5,100 of these images are now available online, with plans for more to come. The new website offers an interactive key as well as important distributional data about Maryland’s invasive plant species. MARY uses Specify 6 as its database management system in concert with a custom PHP-based front-end for serving data and images to the web.
Kari Harris, graduate student at Arkansas State University, reported on her masters of art project for which she organized a cadre of four undergraduate students to annotate and image 17,500 of the STAR herbarium’s Arkansas specimens. The team was able to achieve a rate of about 175 specimens per hour and imaged the collection in little more than one semester. Student technicians are now using the images to database and georeference the collection, ensuring the availability of this small, but important collection for botanical and ecological research. Moreover, Kari developed successful methods for attracting and organizing volunteer student workers in support of collections digitization.

University of North Carolina graduate student Derick Poindexter, no stranger to the Southeast Regional Network of Expertise and Collections (SERNEC) community, outlined methods for integrating field research, the production of a county flora, Georeferencing technology, voucher deposition, and digital documentation, all in service of floristic surveys. Derick’s presentation underscored the importance of simultaneous integration of digital data into scientific research and curation protocols, a goal of many collections digitization initiatives.

The Friday morning (April 12) ASB–iDigBio-sponsored symposium attracted about 25 participants dominated by herbarium professionals but also including representatives from vertebrate, invertebrate, paleo, and algae collections. Following brief remarks by workshop coordinator Ashley Morris (Middle Tennessee State University), Gil Nelson offered an introduction to iDigBio and fielded questions about the National Science Foundation’s Advancing Digitization of Biodiversity Collections (ADBC) initiative before turning the program over to Kim Watson of the New York Botanical Garden (NYBG).
Kim’s presentation, *Plants, herbivores, and parasitoids: Tri-trophic digitization strategies* detailed the practical implementation and workflows of an ADBC-funded Thematic Collections Network (TCN), one of the first three of seven that are currently funded. The TCN involves the American Museum of Natural History, NYBG, and several collaborators. TCN members are integrating data on insect herbivores, their hosts, and related insect parasitoids in an effort to fill an important data gap in the study of tri-trophic relationships.

Hank Bart (Tulane University) followed Kim with *Efficiencies and challenges of organizing an ADBC TCN project on southeast freshwater macrofauna*, offering a detailed glimpse of the planning efforts required for developing a TCN concept and the resulting project description and proposal. Hank outlined plans for a huge digitization effort—including fishes, crawfishes, and aquatic mollusks—that spans numerous institutions in 11 Southeastern states. The proposed project capitalizes on an assemblage of previously georeferenced southeastern fish collection localities amassed through GeoLocate’s Collaborative Georeferencing Platform.
Following a brief but discussion-filled coffee break, Zack Murrell (Appalachian State University) recounted the major issues facing museum informatics and the importance of collective expertise in addressing solutions. Entitled *So many herbaria, so little time: Challenges and opportunities in biodiversity informatics*, Murrell’s presentation suggested that “we are now poised to address ‘dark data’ and the ‘long tail of science’ as we gather metadata and specimen data from smaller regional collections.”

Andy Bentley (University of Kansas Biodiversity Institute) ended the morning with *Collaborative digitization workflows with Specify 6* (download Andy’s talk [here](#)), which included an accounting of Specify’s capabilities for data entry, bulk data uploading and validation, image storage and linking, duplicate data discovery, OCR archiving, and integration of specimen images and labels into digitization workflows. Specify is free, open source software, funded initially by NSF and widely used in the collections community. Bentley pointed out that Specify software aligns with the goals of ADBC, iDigBio, and the requirements inherent in developing a Thematic Collections Network.

Friday’s symposium set the stage for a Saturday workshop focused on workflows and challenges in the digitization of biological specimens. The workshop, with more than 30 participants, followed a presentation/discussion format, with plenty of time for rich interchange among participants. The workshop’s goals were to:

- Introduce iDigBio (Integrated Digitized Biocollections),
- Review existing workflows from workshop participants,
• Detail important principles for digitization workflow design and development,
• Outline examples of major workflow patterns,
• Consider the cultural/social issues that underpin a digitization program,
• Present strategies for serving data and images on the web,
• Develop an understanding of the importance of providing identifiers for your specimens and data,
• Offer methods for improving data in Excel spreadsheets, and
• Provide plenty of time for discussion, contributions, sharing, and questions!

The workshop kicked off with Chris Dietrich, Principal Investigator on the InvertNet TCN, followed by a fascinating array of lightning round talks: 5-minute, 1-slide presentations through which participants highlight the salient aspects of their digitization program or workflow.

Chris’s topic was InvertNet: A new paradigm for digital access to invertebrate collections. InvertNet is another of the three TCNs funded in the first round of the ADBC program. The project is centered on 22 arthropod collections held in institutions distributed throughout the upper Midwest. InvertNet’s goal is to develop high throughput workflows and robotic technology for digitizing pinned insect drawers, including the development and adaptation of advanced imaging and 3D reconstruction.

Several participants offered lightning round presentations, including Hank Bart, Andy Bentley, Katherine Gregg (West Virginia Wesleyan College), Kari Harris, PJ Harmon (West Virginia Division of Natural Resources), George Johnson (Arkansas Tech), Ron Jones (Eastern Kentucky University), Ashley Morris, Mark Schlueter (Georgia Gwinnett College), Tanja Schuster, and Kim Watson. The diversity of lightning round presentations precipitated robust discussion centered on the efficacies of varying approaches to collections digitization.

Following the lightning rounds, Gil Nelson presented an overview of workflow concepts and common practices, with an emphasis on the
major task clusters that define the digitization process and key guidelines for designing and documenting workflow protocols. Deb Paul (iDigBio) followed with a multi-faceted look at several issues facing those involved in a collections digitization program, including an accounting of the social issues affecting collaborative digitization, the importance of assigning identifiers to digitized objects, and strategies for serving data and images to the web. Deb ended with a live demonstration of OpenRefine, open source software that provides advanced tools for cleaning data stored in spreadsheets and other common data formats. OpenRefine is especially well-received by those who regularly use Excel for data storage or as a vehicle for importing data into Specify, Symbiota, and other enterprise-level databases. The power of OpenRefine has spurred the Specify software team to consider integrating some of its functionality into the Specify Workbench.

The day ended at about 5 p.m., following an excellent round of discussion and with renewed vigor for addressing digitization challenges as well as numerous requests for more iDigBio-sponsored workshops.

To learn more about the contents of the presentations visit the workshop wiki at https://www.idigbio.org/wiki/index.php/ASB_Digitization_Workshop. To see images from the workshop, click here.

iDigBio wishes to acknowledge and thank Ashley Morris and Hank Bart for the vision to organize this symposium and workshop combination, and especially to Ashley Morris for overseeing the hard work required to bring these two events together.

iDigBio is funded by a grant from the National Science Foundation's Advancing Digitization of Biodiversity Collections Program (Cooperative Agreement EF-1115210). Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

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RESOLUTION OF APPRECIATION TO
MARSHALL UNIVERSITY
AND THE ORGANIZERS OF THE 74th ANNUAL MEETING OF
THE ASSOCIATION OF SOUTHEASTERN BIOLOGISTS

WHEREAS, Marshall University did agree to host the Association of Southeastern Biologists during the 74th Annual Meeting on 10 April through 13 April 2013, in Charleston, WV and

WHEREAS, the Annual Meeting Arrangement Committee composed of faculty from Marshall University, Emily Gillespie, Dan Evans, Jeff May and Tom Pauley of the Department of Biology, did an outstanding job coordinating with the ASB Convention Manager and Program Committee; and

WHEREAS, Howie Neufeld from Appalachian State University, Chris Brown and Rickey Fiorillo from Georgia Gwinnett College and Scott Jewell for assembling the program and submission of Abstracts and Mark Suggs of Appalachian State University for assisting with program formatting; Emily Gillespie for planning field trips; Chris Fleming of BDY Environmental and Ashley Morris of Middle Tennessee State University for the creation of the program Apps available for I-phones and Smartphones; Christi Magrath of Troy University for coordinating the activities of Beta Beta Beta; Tim Atkinson of Carolina Biological Supply Company for assisting with membership and registration; Ashley Morris of Middle Tennessee State University for her excellent work on the ASB web and social media pages; Patricia Cox and Emily Gillespie for organizing the volunteers; Patricia Cox, Kim Tolson, Patricia Parr, Diane Nelson, Bonnie Kelley, and Eloise Carter for organizing the silent auction; and Scott Jewell, A2Z Convention Services, for handling the annual meeting budget, commercial exhibits and workshops, special sessions, advertising, on-line registration, on-site registration, hotel accommodations, and transportation; and

WHEREAS, the affiliate societies, American Society of Ichthyologists and Herpetologists, Southeastern Division, TriBeta Southeastern District I, TriBeta Southeastern District II, Southeastern Section of the Botanical Society of America, Southeastern Chapter of the Ecological Society of America, Society of Herbarium Curators, South Atlantic Chapter of the Society of Wetland Scientists, Southern Appalachian Botanical Society, Southeastern Society of Parasitologists, Southeastern Fishes Council, and National Association of Biology Teachers were in attendance and contributed to paper and poster sessions, workshops, and symposia; our patron members, A2Z Convention Services, Associated Microscope, AST Environmental, Tim Atkinson, BDY Environmental, Breedlove, Dennis and Associates, Carolina Biological Supply Company, Martin Microscope Company, Marilyn Pendley, Southeastern Naturalist (Humboldt Institute) at Eagle Hill, and Dwayne Wise provided monetary support for ASB; and
WHEREAS, the citizenry of Charleston, WV cooperated to welcome the Association of Southeastern Biologists to the City of Charleston; and
WHEREAS, the students of Marshall University and various other Southeastern institutions volunteered to assist with the production of the 74th Annual Meeting; therefore, be it

RESOLVED, that the members of the Executive Committee of the Association of Southeastern Biologists give their sincere thanks and appreciation to all involved in making this an excellent and memorable Annual Meeting that resulted from the cumulative efforts of these individuals and organizations.

ASSOCIATION OF SOUTHEASTERN BIOLOGISTS
2013 TREASURER’S REPORT FY 1 JANUARY-31 DECEMBER 2012

I. BEGINNING BALANCE $56,555
   Enrichment Fund Receipts $6,931
   Contributions $6,931

V. ENDING BALANCE $52,839

VI. NET INCREASE $(3,716)

ASB ENRICHMENT FUND
1 JANUARY-31 DECEMBER 2012

I. BEGINNING BALANCE $32,095

II. RECEIPTS
   1. Contributions $6,931
      Amount received during ASB 2012 registration $6,126

As a result of the 2012 meeting success, ASB was able to repay the Enrichment Fund all that we had borrowed from the Fund in previous years for general budget support. During 2012, ASB received multiple donations in memory of Dr. Frank Romano and Dr. Steve Dial.

TOTAL RECEIPTS $6,931

III. TOTAL RECEIPTS AND BEGINNING BALANCE $39,026

IV. DISBURSEMENTS

V. TOTAL DISBURSEMENTS $ --

VI. ENDING BALANCE $39,026

VII. NET INCREASE $6,931
ASSOCIATION OF SOUTHEASTERN BIOLOGISTS
EXECUTIVE COMMITTEE MEETING
WEDNESDAY 10 APRIL 2013
CHARLESTON, WV

COMMITTEE REPORT

MEMBERSHIP OFFICER’S REPORT

A new, two-point, membership survey is in progress. Surveys have been discussed at length in light of the downward trend in membership.

Deceased Members
Frank Romano
Steve Timme
George Kent
C. Richie Bell
Wallace D. Dawson

Request for Emeritus Status
William F. Font
Patricia Dreyer Parr

Membership Numbers

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Respectfully submitted,

[Signature]

Sarah Marie Noble, Ph.D.
Membership Officer
ASB Southeastern Biology Staff, ASB Officers, and Executive Committee Members-at-Large, 2013-2014

Telephone numbers, fax numbers and e-mail addresses can be found on the inside front cover of each issue of the Southeastern Biology.

Southeastern Biology Staff

Journal Editor  James D. Caponetti, Division of Biology, University of Tennessee, Knoxville, TN
Associate Editor  Sarah Noble, Department of Natural Sciences, University of Mobile, Mobile, AL
Web Editor  Ashley B. Morris, Department of Biology, Middle Tennessee State University, Murfreesboro, TN
Business Manager  Tim Atkinson, Carolina Biological Supply Company, Burlington, NC
News Editor  Riccardo Fiorillo, School of Science and Technology, Georgia Gwinnett College, Lawrenceville, GA
Book Review Co-Editors  Christopher G. Brown, Dept. of Biology, Shorter College, Rome, GA. • Jennifer Mandel, Dept. of Plant Biology, University of Georgia, Athens, GA
Meetings Coord.  Scott Jewell, P. O. Box 1088, Mebane, NC

ASB Officers

President  Zack Murrell, Department of Biology, Appalachian State University, Boone, NC
President-Elect  Position currently vacant.
Vice President  Joey Shaw, Department of Biological and Environmental Sciences, University of Tennessee, Chattanooga, TN
Past President  Donald H. Roush, Department of Biology, University of North Alabama, Florence, AL
Secretary  Sarah Noble, Department of Natural Sciences, University of Mobile, Mobile, AL
Treasurer  Tim Atkinson, Carolina Biological Supply Company, Burlington, NC
Membership Officer  Sarah Noble, Department of Natural Sciences, University of Mobile, Mobile, AL
Database Manager  Tim Atkinson, Carolina Biological Supply Company, Burlington, NC
Archivist  John Herr, Department of Biological Sciences, University of South Carolina, Columbia, SC

Executive Committee Members-at-Large

2014:  Irene Kokkala, Department of Biology, University of North Georgia, Dahlonega, GA. • Riccardo Fiorillo, School of Science and Technology, Georgia Gwinnett College, Lawrenceville, GA.
2015:  Judy Awong-Taylor, School of Sciences and Technology, Georgia Gwinnett College, Lawrenceville, GA • William Ensign, Department of Biology and Physics, Kennesaw State University, Kennesaw, GA.
2016:  Edgar B. Lickey, Department of Biology, Bridgewater College, Bridgewater, VA. • Conley K. McMullen, Department of Biology, James Madison University, Harrisonburg, VA.
ASB COMMITTEES 2013-2014

Representatives to Other Societies

AAAS – American Association for the Advancement of Science

Representative: Tim Atkinson, Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215; 336-538-6224; Fax 336-538-6322; tim.atkinson@carolina.com

AIBS – American Institute of Biological Sciences

Representative: Stephanie Songer, Department of Biology, North Georgia College and State University, Dahlonega, GA 30597; 706-864-1959; or 706-429-5379; Fax 706-867-2703; srsonger@ngcsu.edu

NSCA – Natural Science Collections Alliance

Representative: Alexander Krings, Department of Plant Biology, NC State University, Box 7612, Raleigh, NC 27695-2700; Fax 919-515-3436; alexander_krings@ncsu.edu

ASB Committees

1. Annual Meeting Arrangements Committee 2014 meeting

Zack Murrell –murrellze@appstate.edu – Co-chair Appalachian State University, Boone, NC

Scott Jewell (a2zconvention@yahoo.com) – Co-chair A2ZConvention Services, Mebane, NC

Irene Kokkala - irene.kokkala@ung.edu University of North Georgia, Dahlonega, GA (ASB EC)

Ricky Fiorillo rfiorill@ggc.edu Georgia Gwinnet College, Lawrenceville, GA (ASB EC)

Rebecca Cook racook724@gmail.com The University of Memphis, Lambuth Campus, Jackson, TN ASB 2012-13 Vice President

Jeannie Chapman JCHAPMAN@uscupstate.edu USC Upstate, Spartanburg, SC (Featured Institution)

Ellen Goldey GoldeyES@wofford.edu Wofford College, Spartanburg, SC (Featured Institution)
Hatice (Neval) Erturk neval.erturk@converse.edu
Converse College, Spartanburg, SC (Featured Institution)

Doug Jensen Doug.Jensen@converse.edu
Converse College, Spartanburg, SC (Featured Institution)

Jessica Harwood HarwoodJ@smcsc.edu
Spartanburg Methodist College, Spartanburg, SC (Featured Institution)

2. Annual Meeting Arrangements Committee 2015 meeting

Zack Murrell –murrellze@appstate.edu – Co-chair
Appalachian State University, Boone, NC

Scott Jewell (a2zconvention@yahoo.com) – Co-chair
A2ZConvention Services, Mebane, NC

William Ensign (bensign@kennesaw.edu)
Kennesaw State University, Kennesaw, GA (ASB EC)
(two-year term)

Judy Awong-Taylor (jawongta@ggc.edu)
Georgia Gwinnet College, Lawrenceville, GA (ASB EC)
(two year term)

Joey Shaw joey-shaw@utc.edu
ASB Vice President 2013-2014
University of Tennessee – Chattanooga

University of Tennessee – Chattanooga Featured Institution Representative
(TBA)

3. Annual Meeting Arrangements Committee 2016 meeting

ASB President 2016-2017 – Co-chair
The “third year committee” included the new ASB EC members. The Current
President shall also co-chair this committee during their tenure as President,
turning this over to the new president.

Scott Jewell (a2zconvention@yahoo.com) – Co-Chair
A2ZConvention Services, Mebane, NC

Conley McMullen (mcmullck@jmu.edu)
James Madison University, Harrisburg, VA (ASB EC)
(three-year term)

Ed Lickey (elickey@bridgewater.edu)
Bridgewater College, Bridgewater, VA (ASB EC)
(three-year term)
President Elect 2015-16
This person will assume co-chairship of this committee after they assume the presidency of ASB. At that time, the new past president will switch to the committee role.

4. Committee on Bioinformatics
Zack Murrell (murrellze@appstate.edu) 
Appalachian State University, Boone, NC

Hank Bart (hbartjr@tulane.edu) 
Tulane University, New Orleans, LA

Susan Farmer (sfarmer@abac.edu) 
Abraham Baldwin Agricultural College, Tifton, GA

5. Conservation Committee
The Conservation Committee shall accumulate facts about environmental issues; shall, where it deems appropriate, disseminate such information to the membership; and shall bring resolutions addressing issues of significance to the Executive Committee for presentation to the membership through the Resolutions Committee. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

Jeff Ray (jmray1@una.edu) 
University of North Alabama, Florence, AL

Kunsiri Chaw Grubbs (grubbsk@winthrop.edu) 
Winthrop University, Rock Hill, SC

Emily Gillespie (gillespiee@marshall.edu) 
Marshall University, Huntington, WVA

6. Education Committee
The Education Committee shall explore ways and means by which the Association might contribute to improved biological education at all levels. Where feasible, the committee shall organize symposia and workshops for the Annual Meeting designed to acquaint the membership with new pedagogy and critical issues in biological education. The committee shall consist of six members appointed for terms of 3 years, with two members appointed annually and serving as Co-Chairs in the third year.

Committee-
Kirk Stowe (kstowe@beaconcollege.edu) – Co-chair 
Beacon College, Leesburg, FL
7. Finance Committee

The Finance Committee shall review the finances of the Association, prepare budget projections for future years, and recommend actions regarding dues structure and other financial matters to the Executive Committee. The committee shall consist of the ASB Treasurer (Chair) Past President, President-Elect (OR Vice President – needs to be changed), and a member of the Executive Committee.

Tim Atkinson (Tim.Atkinson@carolina.com) - Chair
Carolina Biological Supply Company, Burlington, NC

Don Roush (Past President) dhroush@una.edu
University of North Alabama

Joey Shaw (joey-shaw@utc.edu) ASB Vice-President
University of Tennessee – Chattanooga, Chattanooga, TN

Irene Kokkala (ikokkala@ngcsu.edu) - ASB EC Member
North Georgia College & State University, Dahlonega, GA

8. Graduate Student Support Awards

Lisa Kelly (lisa.kelly@uncp.edu) - Chair
University of North Carolina Pembroke, Pembroke, NC

Jennifer Borgo (jborgo@coker.edu)
Coker College, Hartsville, SC

Claudia Jolls (JOLLSC@ecu.edu)
East Carolina State University
9. Committee on Human Diversity

The Committee on Human Diversity shall promote career opportunities in the biological sciences for women, minorities, and individuals with disabilities and implement programs to eliminate barriers that restrict the access of underrepresented groups to biological careers. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

Tina Hubler (trhubler@una.edu) Chair
University of North Alabama, Florence, AL

Valarie Burnett (valarie.burnett@newberry.edu)
Newberry College, Newberry, SC

NEED NEW MEMBER

10. Meetings Coordinator

Scott Jewell (a2zconvention@yahoo.com) - Chair
A2ZConvention Services, Mebane, NC

11. Membership Benefits Committee

The Membership Benefits Committee shall assist the Membership Officer in the development and implementation of member benefits, and in the recruitment and retention of members. The committee shall consist of the Membership Officer (Chair) and three (3) members appointed for terms of three (3) years, with one a member appointed annually. NEED TO UPDATE BY LAWS TO ADD SCOTT JEWELL AS PERMANENT MEMBER.

Sarah Noble (waterfallbotanist@hotmail.com) - Chair
University of Mobile, Mobile, AL

Scott Jewell (a2zconvention@yahoo.com)
A2Z Convention Services, Mebane, NC

Donald Roush (dhroush@una.edu)
University of North Alabama, Florence, AL

Thomas Blanchard (tblanch@utm.edu)
University of Tennessee-Martin, Martin, TN

12. Meritorious Teaching Award Committee

The Meritorious Teaching Award Committee may each year select for the award a member of the Association who was taught biology for at least ten years in any college or university represented in the Association. The committee shall consist
of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

R. Wayne Van Devender (vandevenderr@appstate.edu) - Chair
Appalachian State University, Boone, NC

Jennifer Davis (jldavis@kennesaw.edu)
Kennesaw State University, Kennesaw, GA

Kim Marie Tolson (tolson@ulm.edu)
University of Louisiana, Monroe, LA

13. Nominating Committee

The Nominating Committee shall, with due consideration of suggestions received from the membership, prepare a multiple slate of nominees for each office to be filled. The committee shall consist of three members, one of whom is a recent past president who shall serve as the Chair.

Don Roush (dhroush@una.edu) - Chair
University of North Alabama, Florence, AL

Patricia Parr (parrpd@ornl.gov)
ORNL, Oak Ridge, TN

NEED NEW MEMBER

14. Poster Award Committee

The Poster Awards Committee may each year select a recipient of the Association Poster Prizes for the meritorious presentation of original research by members at the Annual Meeting. The Committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

Jennifer Boyd (Jennifer-Boyd@utc.edu) Chair
University of Tennessee at Chattanooga, Chattanooga, TN

Sharryse Henderson (shenders@highlands.edu)
Georgia Highlands College, Cartersville, GA

William Ensign (bensign@kennesaw.edu)
Kennesaw State University, Kennesaw, GA

Rob Hopkins (rhopkins@rio.edu)
University Rio Grande, Rio Grande, OH

Jennifer Borgo (jborgo@coker.edu)
Coker College, Hartsville, SC
15. Program Committee

Howie Neufeld (neufeldhs@appstate.edu) - Chair
Appalachian State University, Boone, NC

Riccardo Fiorillo (rfiorill@ggc.edu)
Georgia Gwinnett College, Lawrenceville, GA

Christopher Brown (cbrown37@ggc.edu)
Georgia Gwinnett College, Lawrenceville, GA

17. Publications Committee

The Publications Committee shall provide oversight of the Association's publications, consider requests for special publication activities, and recommend any alteration of publication policy to the Executive Committee for approval and subsequent approval by the membership. The committee shall consist of three of the Members-at-Large of the Executive Committee and the Editor (ex officio). NEED TO ADD WEBMASTER PERMANENTLY TO THIS COMMITTEE?

Terry Richardson (tdrichardson@una.edu) Chair
University of North Alabama, Florence, AL

Jim Caponetti (jcaponel@utk.edu) - Ex-Officio, Print Editor
University of Tennessee, Knoxville, TN

Ashley B. Morris (amorris@mtsu.edu) - Ex-Officio, Web Editor
Middle Tennessee State University, Murfreesboro, TN

Judy Awong-Taylor (jawongta@ggc.edu)
Georgia Gwinnett College, Lawrenceville, GA (ASB EC)

Conley McMullen (mcmullck@jmu.edu)
James Madison University, Harrisburg, VA (ASB EC)

Ed Lickey (elickey@bridgewater.edu)
Bridgewater College, Bridgewater, VA (ASB EC)

18. Research Awards Committee - Senior

The Senior Research Awards Committee may each year select a recipient of the Association Senior Research Prize for the meritorious presentation of original research by a member (student members excluded) at the Annual Meeting. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

Michael Dorcas (midorcas@davidson.edu) Chair
Davidson College, Davidson, NC
19. Research Awards Committee – Student Emailed with charge

The Student Research Awards Committee may each year select the recipients of the Association Student Research Prizes for the meritorious presentation of original research by a student member at the Annual Meeting. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

Cathryn Greenberg (kgreenberg@fs.fed.us) - Chair
USDA-Forest Service, Asheville, NC

Chris Gissendanner (gissendanner@ulm.edu)
University of Louisiana, Monroe, LA

John Quinn (john.quinn@furman.edu)
Furman University, Greenville, SC

20. Research Awards Committee - Microbiology

Lisa Ann Blankinship (lblankinship@una.edu) Chair
University of North Alabama, Florence, AL

Chris Gissendanner (gissendanner@ulm.edu)
University of Louisiana, Monroe, LA

Need new member

21. Resolutions Committee

The Resolutions Committee shall formulate and, with approval of the Executive Committee, present to the membership such resolutions as may be considered worthy of action by the Association. The committee shall be served by the Past President as Chair and two additional members with terms of 1 year.

Committee-
Pat Cox (pbcox@tva.gov) - Chair
TVA Heritage Program, Knoxville, TN

Kim Marie Tolson (tolson@ulm.edu)
University of Louisiana at Monroe, Monroe, LA

Bonnie Kelley (bonnie.kelley@uncp.edu)
University of North Carolina at Pembroke, Pembroke, NC
the compleat naturalist

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Asheville NC 28803
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CALL FOR PAPERS

THE 75th ANNUAL MEETING OF
THE ASSOCIATION OF SOUTHEASTERN BIOLOGISTS

Hosted by:
Converse College
Spartanburg Methodist College
University of South Carolina Upstate
Wofford College
Spartanburg, South Carolina

ABSTRACTS WILL BE ACCEPTED FROM
MONDAY, 4 NOVEMBER 2013 UNTIL
FRIDAY, 31 JANUARY 2014

Abstract Submission
Abstracts should be submitted two ways: online via the link on the ASB website (http://www.sebiologists.org/) AND as an attachment to an email sent to the program chair. The email attachment ensures we get the proper formatting, authorships, and addresses, in case there are problems with the online submission process. **Late abstracts will not be published in the program.** Presenters will be notified of the day and time of their presentation in mid-March and will be scheduled according to topic preferences and date of abstract submission. Please do not request specific presentation times except in cases of hardship or to avoid conflicts with specific papers. If you must have a specific time or day for your presentation, please indicate so in an email to the program chair.

Your abstract must be 250 words or less. We recommend that you first create your abstract using a word processor or plain text editor and paste a copy into the appropriate field on the electronic submission form. **Abstracts attached to the email should be properly formatted using WORD or WORDPERFECT.** Specific formatting instructions will be included on the abstract submission website. Authors not following formatting instructions will be asked to correct their abstracts before they are considered accepted.

You may nominate your research for one or more appropriate awards sponsored by our Association and our affiliate associations. **PLEASE READ THE INSTRUCTIONS AND DESCRIPTIONS OF EACH AWARD CAREFULLY.** Individuals not meeting an award’s qualifications or not following an award’s nomination process will be disqualified at the discretion of each awards committee.

Preliminary Presentation Instructions
**Oral presentations** are allotted 15 minutes and must be in PowerPoint format on a USB memory drive. **Posters** should fit into a 46” x 46” space and will be displayed for an entire day (Thursday or Friday). Presenters should be prepared to stand with their posters for a designated one hour period.

If you have any questions please contact the Program Chair, Howard Neufeld, neufeldhs@appstate.edu.
Silent Auction

Yes I would like to contribute to the Silent Auction to help with student travel to the Annual Meeting.
(100% of all proceeds to benefit student travel awards)

Partial List of Items Donated at the 2009 Annual Meeting in Birmingham

- Dissection Set
- Corporate Gift Certificates
- Anatomical Model
- Dinner for Two
- Two Nights Hotel Accommodations
- Books
- Charts
- Gift Basket
- Educational Charts
- Microscope
- Golf Putting Machine

Description of Item(s) to be donated
_____________________________________________________
_____________________________________________________
_____________________________________________________
_____________________________________________________
_____________________________________________________
_____________________________________________________

Please check appropriate option:

Please contact me at the conference to pick-up donation

I will mail the donation to Scott Jewell, ASB Meetings Coordinator before March 15, 2014.

Signature ___________ Date ___________ phone ___________

Title __________________ e-mail __________________

Return form by March 15, 2014 to: Scott Jewell, ASB Meeting Coordinator, PO Box 1088, Mebane, NC 27302; A2Zconvention@gmail.com, 336/213-7373 cell, 336/421-0034 office, 336/421-3425 fax.
Workshop Form
2014 Association of Southeastern Biologists
April 2-5, 2014, Spartanburg, South Carolina

Workshop Description: All commercial workshops will be conducted during the meeting on a first-come first-served basis. Classroom style seating will be provided at no additional charge to the presenter. Each classroom will be set for a minimum of 50 participants. A screen will be provided for each room. **LCD projectors and laptops will not be provided. One workshop per application please.**

Company/Organization_____________________________________________________
(Please list company name as you wish it to appear on printed materials)
Presenter__________________________ Email  ______________________________
Address: ________________________________________________________________
Contact Address: __________________________________________________________
________________________________________________________________________
Telephone:____________________________ Fax: ______________________________
Web site:_________________________________________________________________
Workshop Title:__________________________________________
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50-Word Workshop Description:______________________________________________
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________________________________________________________________________
(Description will appear in Final Program of *Southeastern Biology*)

Please indicate which time slot you prefer below:

Pre-Conference Workshop: Wed., 4pm-5:30pm _____
Thurs., 8:30am-10am___ Thurs., 10:30am-12noon____ Thurs., 1:30pm-3pm___
Thurs., 3:30pm-5pm___ Fri., 8:30am-10am____

*Deadline for workshop submission is 15 October 2013*

**Hold Harmless Clause**
The workshop presenter assumes all responsibility and liability for losses, damages and claims arising out of injury to the presenter’s display, equipment and other property brought upon the premises of the convention facilities and shall indemnify and hold harmless the association agents, servants and employees as well as the ASB organization from any losses, damages and claims.

Upon acceptance by ASB, this signed application and Workshop Contract form becomes the contract for the 2014 ASB Annual Convention. Workshop presenter will be notified of their acceptance by letter no later than 15 Dec 2013.

Signature __________________________ Date __________________________

Return form by **October 15, 2013** to: Scott Jewell, ASB Meeting Coordinator, PO Box 1088, Mebane, NC 27302; A2Zconvention@gmail.com, 336/213-7373 cell, 336/421-0034 office, 336/421-3425 fax.
Industry Partners Form
2014 Association of Southeastern Biologists
April 2-5, 2014, Spartanburg, South Carolina

Yes I Would Like To Partner With ASB And Participate
in the Industry Partners Program!!
Send no money now, please complete form and return to address shown below

Company/Organization_____________________________________________________
(Please list company name as you wish it to appear on printed materials)
Representative:_____________________
Email ___________________________
Address:________________________________________________________________
City,State,Zip:____________________________________________________________
Telephone:_____________________________Fax:________________________

*Special Recognition at the Thursday Night Social, Friday Night Awards Banquet, signage
at the Convention Center and a listing in Final Program of Southeastern Biology!

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<th>Qty</th>
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<td>Wed. Night Cash Bar (4 Opportunities)</td>
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<td>Coffee Breaks (8 Opportunities)</td>
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<td>Thurs. Night Social (4 Opportunities)</td>
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<td>Friday Night Banquet Cash Bar</td>
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<td>Yes, I wish to present a workshop</td>
<td>See Workshop Form</td>
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<td>24-Hour Exhibit Hall Security</td>
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<td>ASB Executive Committee Breakfast</td>
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<td>Yes, I would like to Donate an Item to the Silent Auction to help with Student Travel</td>
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<td>ASB Web Site Hot Link to Your Company (12 months)</td>
<td>$375</td>
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<td>Yes, I would like an AD in all 4 2014 issues of Southeastern Biology</td>
<td>See Advertising Form</td>
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<td>¼ page=$200, ½ page=$325, full page=$425</td>
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<td>AD in Final On-Site Program (circle choice)</td>
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<td>¼ page=$175, ½ page=$225, full page=$275</td>
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Signature ___________________________________ Date ______________
Title ________________________________ e-mail ______________________

Return Form with Check or Credit Card Information by January 1, 2014 to: Scott Jewell, ASB Meeting Coordinator, PO Box 1088, Mebane, NC 27302; A2ZConvention@gmail.com, 336/213-7373 cell, 336/421-0034 office, 336/421-3425 fax.
Advertising with the
Association of Southeastern Biologists

Reach Your Target Audience and
Promote your Products and Services Throughout the Year!!
Advertise in Southeastern Biology.

Advertise in Southeastern Biology and reach over 1,500 members from 42 states and 13 countries. ASB publishes 4 issues of Southeastern Biology per year and an On-Site Program for the Annual Meeting. Choose one or both opportunities to increase your marketing exposure. Promote your products and services throughout the year!

¼ Page 1½" X 1"

½ Page 3" X 2"

Full Page 7½" X 4 ¾"
Advertising with the Association of Southeastern Biologists (cont.)

_____ Yes I would like an AD in all 4 (Full Color) issues of Southeastern Biology, (circle choice)

¼ page=$200, ½ page=$325, full page=$425

_____ AD in Final On Site Program (circle choice) (Black & White Only)

¼ page=$175, ½ page=$225, full page=$275

*All must be submitted in jpg.

Return Form with Check or Credit Card Information to: Scott Jewell, ASB Meeting Planner, PO Box 1088, Mebane, NC 27302; A2Zconvention@gmail.com, 336/213-7373 cell, 336/421-0034 office, 336/421-3425 fax.
BEQUESTS TO THE
ASSOCIATION OF SOUTHEASTERN BIOLOGISTS

If you would like to help assure ASB's future through a provision in your will, this general form of bequest is suggested:

_I give, devise and bequeath to the Association of Southeastern Biologists, business office located in Burlington NC, the sum of $___________________ and/or (specifically described property)._ 

If property, please describe.

Donations to ASB, a not-for-profit corporation exempt under Internal Revenue Code Section 501(c)(3), are tax-deductible. We welcome any inquiries you may have. In cases in which you have specific wishes about the disposition of your bequest, we suggest you discuss such provisions with your attorney.
ASB BANQUET ATTENDANCE

Please keep in mind that recipients of ASB awards must be present at the annual ASB banquet to receive the award. Therefore, all applicants for ASB awards must attend the banquet to insure the presence of the winners.

MEMBERSHIP AND REGISTRATION UPDATE

All applicants for ASB research awards must be ASB members in good standing, and be duly registered for the annual meeting. If necessary, check with the Treasurer for verification before you apply.

Please make sure your membership status is up-to-date amply before the deadline for abstract submission and for annual meeting registration. Please be aware that mailing a check or money order for membership renewal to the treasurer and then trying to register online or by mail for the annual meeting on the same day does not work. Moreover, trying to pay for membership renewal online in tandem with registering for the annual meeting online does not work well either.

EXTRA ABSTRACT SUBMISSION

Besides sending abstracts of papers and posters to the Program Committee by January 31, 2014, anyone wishing to be considered for an award must send an abstract to the respective award committee chairperson in order to be considered. An abstract must be sent to the chairperson by January 31, 2014.

Preliminary Presentation Instructions

Oral presentations are allotted 15 minutes and must be in PowerPoint format on a USB memory drive. Posters should fit in a 46” x 46” space and will be displayed for an entire day (Thursday or Friday). Presenters should be prepared to stand with their posters for a designated one-hour period.

If you have any questions, please contact Program Chair, Howard Neufeld, neufeldhs@appstate.edu.
Nomination for ASB Officers and Executive Committee Positions

DEADLINE: 15 OCTOBER 2013

To members of the Nominating Committee: I wish to suggest that you consider the following ASB member(s) in selecting nominees for officers and executive committee positions. (*Please include the institutional address of each nominee.*)

PRESIDENT-ELECT

________________________________________________________________

________________________________________________________________

VICE PRESIDENT

________________________________________________________________

________________________________________________________________

TREASURER

________________________________________________________________

________________________________________________________________

EXECUTIVE COMMITTEE (two will be elected for three-year terms)

________________________________________________________________

________________________________________________________________

________________________________________________________________

MAIL TO: Dr. Donald H. Roush, Department of Biology, University of North Alabama, Florence, AL 35632; (256) 765-4435; fax (256) 765-4430; dhroush@una.edu.

NAME & ADDRESS OF NOMINATOR

________________________________________________________________

________________________________________________________________
WE KEEP YOU GROWING

Conviron is the world leader in the design, manufacture, and installation of controlled environment systems. With installations in over 80 countries, and a network of offices, distributors and service partners - our clients range from start-up companies to many of the largest and most prestigious corporate and academic research facilities in the world. We invite you to contact us to discuss your controlled environment requirements.

For more information, please visit us on our website at www.conviron.com
SUPPORT AWARDS FOR GRADUATE
STUDENT MEMBERS OF ASB
DEADLINE FOR POSTMARK: 31 January 2014

Limited funds are available to partially defray the expenses of graduate students attending the Annual Meeting. **The awards are for lodging and meals only, including the ASB Banquet.** Departments are urged to provide transportation for their graduate students. Recipients must be members of ASB. See ASB website for membership application or renewal forms. The guidelines for application are as follows:

(a) The recipient is a current member of ASB.

(b) The recipient must present at the Annual Meeting and must include a separate copy of the abstract of the paper or poster to be presented along with the application. Failure to present will result in forfeiture of the award.

(c) The recipient must be currently enrolled as a graduate student in the department where he/she conducted this research.

(d) Student travel awards are granted on a competitive basis. Applications must contain:

- An itemized budget, including expected costs for lodging and meals, with a list of other sources of financial support for this meeting, including institutional aid, shared lodging and shared transportation.
- A brief history (a paragraph) of your education to date: indicate how many years you have been in graduate school and the expected date of completion of work for your degree, your major field of study and research, publications, including those in press and in preparation, degree sought, name of major professor and any other pertinent details.
- A copy of the abstract to the paper or poster that will be presented at the Annual Meeting.
- Your source(s) of support while in graduate school: e.g. NSF, NIH, USDA, Teaching Asst., Research Asst., etc.
- A letter of recommendation for an ASB support award from your faculty research advisor. This letter should comment on the work being presented and indicate the financial need of the student presenter. It should also indicate whether any departmental or other funding is available to the student.

(e) Send application with supporting letter to: Dr. Lisa Kelly, Department of Biology, University of North Carolina at Pembroke, Pembroke, NC 28372; 910-521-6377. In addition, e-mail a copy of your completed application documents without the supporting letter to lisa.kelly@uncp.edu.

(f) Applicants will be notified of the decision of the Committee as soon as is practical. Recipients of the award will pick up their checks at the ASB table at the meeting.
GUIDELINES FOR POSTER PRESENTATIONS

Poster sessions have been incorporated as a regular means of scientific presentation at the annual ASB meetings. This type of presentation provides a more informal environment that encourages a direct interchange of ideas and discussion between presenter and audience. Poster presentations are open to all ASB members. Adherence to the following guidelines helps ensure the effectiveness of the poster presentation and consideration for the award.

(1) Display should fit on a 46” h x 46” w board suitable for thumbtacks, pushpins, or Velcro.

(2) Poster must be displayed from 10 a.m. Thursday through 5 p.m. Friday. Authors will be required to be present at specified times during the Annual Meeting.

(3) Poster should be carefully planned to maximize clarity and simplicity in conveying information.

(4) Poster should have a heading, including a title, author, and author's institution(s). This heading should be placed at the top in letters no less than 3 cm high.

(5) The body of the poster, including text, figure legends, and table captions, should be in type no smaller than 18 pt (3-4 mm) and must be legible from a distance of about 1-2 meters.

(6) The body should be self-explanatory and should include figures, tables, graphs, maps, or photographs displayed in a well organized, coherent, and easy-to-follow sequence from top to bottom. Each illustration should contain a caption. Do not overcrowd the display. Significance will be one of the criteria looked for in judging the posters.

(7) A limited degree of text may be included, but care should be taken not to overwhelm the audience.

(8) A large, abbreviated version of the abstract should be presented at the top of the poster, but below the heading. A clear listing of specific conclusions should appear at the bottom or end of the presentation. An abstract must also be submitted to the award committee chair.

Further inquiries may be directed to the Chair of the ASB Poster Award Committee: Dr. Jennifer Boyd, University of Tennessee, Chattanooga, TN; Jennifer-Boyd@utc.edu.
RESEARCH AWARDS

SPECIAL NOTICE: Please read carefully the description of requirements for the ASB award for which you apply. All applicants for ASB awards must be ASB members in good standing, and must be duly registered for the annual meeting. If necessary, check with the Treasurer for verification before you apply. Note especially that recipients of ASB awards must be present at the annual ASB banquet to receive the award.

ASB SENIOR RESEARCH AWARD ($1000)

Given for an especially meritorious manuscript presented orally by the senior author at the annual meeting of ASB (or co-author under exceptional circumstances if the senior author cannot attend). The award applicant must be senior author on both the manuscript and oral presentation, and the presenter must be a member of ASB. In order to qualify for this award, sponsored by ASB Patron Member Marilyn Pendley, the senior author (or a representative) must have presented work orally at any previous annual meeting or have submitted an abstract by the 31 January abstract deadline for an oral presentation at the next annual meeting. The manuscript must either have been submitted for publication or be ready for submission and carry the format of the journal to which it will be (or has been) submitted. Author(s) may submit their papers electronically by emailing them to the committee chair (pdf preferred). Include a short (1 page maximum) biography of the award applicant. If sent by hardcopy, submit three copies of the manuscript and biographical sketch. Manuscripts received by 31 January 2014 will compete for the 2014 Senior Research Award. Manuscripts received after the deadline will be returned to the senior author who can then re-submit the following year. However, such manuscripts cannot have been published prior to the last annual meeting. Judges will use a standard evaluation form that includes the following criteria: significance of ideas, soundness of hypotheses, originality (creativity), quality of methodology, validity of results, soundness of conclusions, clarity, completeness, organization, and contribution to the field. Review papers, if submitted, should contain new information, such as novel syntheses from existing data, or an original contribution that extends our knowledge of the field, rather than just a review of existing literature. At the discretion of the Senior Research Award Committee, the award may be withheld or it may be split in case of a tie. The recipient of the award must be present at the annual ASB banquet to receive the award.

Committee Chair: Dr. Michael Dorcas, Davidson College, Davidson, NC; midorcas@davidson.edu.

ASB STUDENT RESEARCH AWARD ($1000)

Given for an especially meritorious manuscript presented orally by the author(s) at the annual meeting. To be eligible for the Student Research Award (sponsored by ASB Patron Member Martin Microscope Company), the recipient must be the senior author on the manuscript, and must be a graduate or undergraduate student at the time of presentation. To qualify for the award, the author(s) must submit an abstract to the current Student Research Award
Committee Chair (posted on the website), due the same date as abstract submission to the program committee for presentations or posters (specified in the official call for papers). **Complete applications for the competition must be received by the Student Research Award Committee Chair by January 31**\textsuperscript{st} **prior to the annual meeting. Complete applications include (1) Three copies of a journal-ready manuscript. Papers may be in press, or published after the previous ASB annual meeting, but not prior; (2) abstract in same format as submitted for the ASB call for papers, including author names, titles, and contact information; (3) biographical sketches of each author. These materials may also (in addition to hardcopy) be sent by email to the committee chair. Judges will evaluate the manuscripts based on significance of ideas, soundness of hypotheses, originality, methodology, validity of results, soundness of conclusions, clarity, completeness, organization, and contribution to the field. At the discretion of the Student Research Award Committee, the award may be withheld or it may be split in the case of a tie. Only members of the ASB are eligible and the recipient of the award must be present at the Annual ASB Awards Banquet to receive the award.**

Committee Chair: Dr. Cathryn Greenberg, U.S.D.A. Forest Service, Asheville, NC; kgreenberg@fs.fed.us.

**Brooks/Cole Cengage Learning Student Research Award in Aquatic Biology ($200)**

The purpose of this award, sponsored by Fred Hudson, Senior Math and Science Representative for Cengage Learning Brooks/Cole Publishing Company in the Southeast, is to encourage excellence in aquatic biology research by undergraduate and graduate students. It is intended that “aquatic biology” be broadly interpreted. For example, research projects on aquatic organisms, wetland biota, and water quality are eligible. To be eligible for the Student Research Award in Aquatic Biology, the recipient must be the senior author on the manuscript, and must be a graduate or undergraduate student at the time of presentation. The paper must be based on research designed and completed by the student, and must be presented orally by the student as senior author at the annual meeting. To qualify for the award, the author(s) must submit an abstract to the current Student Research Award Committee Chair (posted on the website), due the same date as abstract submission to the program committee for presentations or posters (specified in the official call for papers). Complete applications for the competition must be received by the Student Research Award Committee Chair by January 31**\textsuperscript{st} **prior to the annual meeting. Complete applications include (1) Three copies of a journal-ready manuscript. Papers may be in press, or published after the previous ASB annual meeting, but not prior; (2) abstract in same format as submitted for the ASB call for papers, including author names, titles, and contact information; (3) biographical sketches of each author. These materials may also (in addition to hardcopy) be sent by email to the committee chair. Judges will evaluate the manuscripts based on significance of ideas, soundness of hypotheses, originality, methodology, validity of results, soundness of conclusions, clarity, completeness, organization, and contribution to the field. At the discretion of the Student Research Award Committee, the award may be withheld or it may be
split in the case of a tie. **Only members of the ASB are eligible and the recipient of the award must be present at the Annual ASB Awards Banquet to receive the award.**

**Committee Chair:** Dr. Cathryn Greenberg, U.S.D.A. Forest Service, Asheville, NC; kgreenberg@fs.fed.us.

**ASB Research Award in Microbiology ($500)**

Sponsored by ASB, the award is given for an especially meritorious oral presentation of research results by the author(s) at the annual meeting. The purpose of the award is to stimulate greater participation at the Annual Meeting in the broad area of microbiology, principally prokaryotic microbiology. The research may involve cell biology, physiology, molecular biology and/or genetics of these organisms, but must clearly be about the organisms and not the disciplines. The presentation must deal clearly with prokaryotic microbes and should represent substantially completed work. In order to qualify for this award, the senior author must request consideration for the award on the abstract submission form, submit one copy of the title and abstract to the ASB Program Chair by 31 January 2014, and submit a second copy by the same date to the Microbiology Award Committee Chair. Only members of ASB are eligible and the recipient of the award must be present at the Annual ASB Banquet to receive the award (go to http://asb.appstate.edu/member.htm for membership application or renewal form).

**Committee Chair:** Dr. Lisa Ann Blankinship, University of North Alabama, Florence, AL; blankinship@una.edu.

**ASB Student Poster Award ($300)**

Given for an especially meritorious poster presentation by the author(s) at the Annual Meeting. The purpose of the award, sponsored by ASB Patron Member AST Environmental, is to stimulate greater student participation at the Annual Meeting. To qualify for this award, the senior author must be a graduate or undergraduate student at the time of presentation, must be a member of ASB, must submit an abstract by the 31 January 2014 deadline, and must be present at the Annual ASB Awards Banquet. Student poster presentations must also adhere to the “Guidelines for Poster Presentations.” Only student authors who request consideration for the poster award on the abstract submission form will be judged for the award. In addition to adherence to the “Guidelines for Poster Presentations,” student poster presentations will also be judged using the following specific criteria:

(1) Overall aesthetics and attractiveness of presentation  
(2) Ease of reading from a distance (1-2 meters)  
(3) Clear and concise organization  
(4) Clearly stated hypothesis or study objectives  
(5) Soundness of methods for testing hypotheses or meeting study objectives  
(6) How well conclusions are supported by results
At the discretion of the ASB Poster Award Committee, the award may be withheld or it may be split in the case of a tie. Some posters may also be awarded “Honorable Mention” at the discretion of the ASB Poster Award Committee (Honorable Mention awardees receive no monetary award). Further inquiries may be directed to the chair of the ASB Poster Award Committee.

Committee Chair: Dr. Jennifer Boyd, University of Tennessee, Chattanooga, TN; Jennifer-Boyd@utc.edu.

**EUGENE P. ODUM AWARD ($500)**

The Eugene P. Odum Award is sponsored by the Southeastern Chapter of ESA. This Award of $500 is given for the best oral presentation on ecological research given by a student at the Association of Southeastern Biologists [ASB] Annual Meeting. Undergraduate and graduate students are eligible. The research presented should be primarily of the student's design and should represent a culmination of their work. Presentations describing preliminary work or data will not be considered for the Odum Award. Likewise, the abstract must be complete with results and discussion comprising a significant portion of the abstract. Students may not compete for the Award in successive years on the same project, and may not compete simultaneously for the Odum and Quarterman-Keever Awards in the same year.

(1) A student must indicate his or her interest by clicking the Odum Award radio button on the abstract submission website. To be considered, the student must submit the abstract by the deadline announced in the Call for Papers to both the (2) ASB Meeting Program Chair and (3) Chair of the Odum Award Committee, Dr. Kimberly J. Bolyard, Department of Biology, Bridgewater College, Bridgewater, VA 22812; 540-828-5427; fax 540-828-5661; kboyard@bridgewater.edu. Send e-mail with the abstract attached. Enter ODUM AWARD (your last name) in the subject line. Submissions failing to meet these three criteria will not be considered.

Committee Chair: Dr. Kimberly J. Bolyard, Department of Biology, Bridgewater College, Bridgewater, VA 22812; 540-828-5427; fax 540-828-5661; kboyard@bridgewater.edu.

**ELSIE QUARTERMAN-CATHERINE KEEVER AWARD ($300)**

Given by the Southeastern Chapter of the Ecological Society of America for the best ecological poster presented by a student. This award was presented for the first time in 2005. Undergraduate and graduate students are eligible. The student must be the sole or senior author. The poster must deal with a clearly ecological topic and should represent substantially completed work. It should be presented in a regular contributed poster session. Students may not compete for this award in successive years with the same project. Students may not compete simultaneously for the Elsie Quarterman-Catherine Keever Award and the Odum Award in the same year. One copy of the title and abstract should be sent to the ASB Program Chair by the “Call for Papers” deadline of 31 January 2014 and a
second copy must be sent via email by the same date to the Quarterman-Keever Committee Chair.

Committee Chair: Dr. Janet MacFall, Center for Environmental Studies, Elon University, Elon, NC 27244; 336-278-6202; macfallj@elon.edu.

**THE NORTH CAROLINA BOTANICAL GARDEN AWARD ($200)**

Given by NCDBG (through the Southeastern Section of the Botanical Society of America and the Southern Appalachian Botanical Society). This is awarded for a paper presented at the annual ASB meetings that best advances our understanding of the biology and conservation of the southeastern plants and thus contributes to the mission of the North Carolina Botanical Garden. Of special interest to the Garden are the rare plant species of the Southeast: why they are rare; how they interact with plants, animals, and their environment; and what can be done to ensure their survival. The paper may deal with a broad area including systematics, ecology and conservation. All individuals who are eligible to present at the ASB meetings are eligible for this award. They may be students, faculty or others.

Committee Chair: Dr. John Randall, Department of Biology, University of North Carolina, Greensboro, NC 27412; 919-962-0522; fax 919-962-3531; jrandall@email.unc.edu.

**SOCIETY OF WETLAND SCIENTISTS SOUTH ATLANTIC CHAPTER STUDENT TRAVEL AWARD**

The Association of Southeastern Biologists (ASB) Meeting Travel Award (http://www.asb.appstate.edu/) (http://www.sws.org/regional/southatlantic/travelguidelines_ASB.html). The SAC is offering two $100 travel awards to help support students presenting wetlands research at the Association of Southern Biologists (ASB) annual meeting in Spartanburg, South Carolina, April 2-5, 2014. The Chapter’s Awards and Executive Committees will judge the applicants based on the scientific quality and importance of their research as described in the abstract. All students presenting research on a wetland topic are eligible; membership in SWS is not required. Students: please submit your abstract as instructed in the ASB call for papers. Further, applicants must also submit their abstract by e-mail to the SWS-SAC Awards Chair, David Bailey, at David.E.Bailey2@usace.army.mil to be considered for a SWS-SAC travel award. Award winners will be invited to the Chapter’s luncheon meeting (no charge for awardees) held during the ASB annual meeting. The deadline for this travel award is January 31, 2014. Dr. Bailey’s address and telephone number – U.S. Army Corps of Engineers, CE-SAW-RG-L, 69 Darlington Ave., Wilmington, NC 28403-1343; 910-251-4469.

**BOTANICAL SOCIETY OF AMERICA SOUTHEASTERN SECTION STUDENT AWARDS**

Two awards: A $300 cash prize for the best paper and a $300 cash prize for the best poster in plant science presented at the annual meeting of ASB. In
addition, each winner will receive funds towards travel to the annual BSA meeting as well as one year’s membership in BSA. These are awards for papers and posters in botany in its broadest sense including fungi and algae as well as plants.

Who is eligible: Undergraduate and graduate students are eligible. The student must be the sole or senior author of the paper or poster.

How to apply: To be included in the competition, applicants should e-mail their abstract to the Botanical Society of America Southeastern Section Student Award committee chair by the abstract deadline of 31 January 2014. The winner will be announced at the ASB Banquet.

Committee Chair: Dr. Zack Murrell, Department of Biology, Appalachian State University, Boone, NC 28608; 828-262-2674; murrellze@appstate.edu.

Southern Appalachian Botanical Society Outstanding Student Paper and Poster Awards

The society offers two awards for students: the SABS Outstanding Student Paper Award, and the SABS Outstanding Student Poster Award. A nominee must be a current undergraduate or graduate student in good standing, and must be a current member of SABS. A student will nominate his/her paper or poster presentation when registering for the annual ASB meeting and submitting the abstract. The instructions for nomination are on the ASB web site. Each award includes an honorarium of $150.00, and the winners will be announced at the ASB Friday night banquet.

Earl Core Student Award

The Core Student Award was established by the Society Council to provide financial assistance in support of student research projects in plant taxonomy, systematics and ecology.

Criteria and Procedures
1. An applicant for a Core Student Award and his/her research advisor must be members of the Southern Appalachian Botanical Society (SABS).
2. Support in the form of a Core Student Award will be presented to an individual student for a given research project only once; applications for additional support for the same project will not be considered.
3. The research advisor will attest to the applicant’s student status and validity of the research proposal.
4. The annual award period will run from May 1 of the award year through April 30 of the next year.
5. An individual award may not exceed $300.
6. Award applications for consideration each year must be received by the committee chair no later than February 15 of the award year. Download the application cover sheet on SABS website (http://www.sabs.appstate.edu/Awards/CoreMain.htm) for submitting information. The chair will transmit copies of each application to other members of the committee and will
subsequently report the decision of the committee to the Society president by April 1. Award recipients will be announced in April at the annual meeting of SABS/ASB in Spartanburg, South Carolina.

7. Awards will be designated on a competitive basis with the applications reviewed and awardee(s) selected by the Core Student Award Committee. Should a member of the committee be the research advisor of an applicant, he/she will be excused as a reviewer for that entire group of applications and replaced by the society president.

8. Recipients of a Core Student Award are expected to submit a summary for publication in Chinquapin (our newsletter). Though not required, recipients are encouraged to submit the results of their research to Castanea for possible publication. In any case, oral presentation(s) and/or publication(s) resulting from financial support will appropriately acknowledge SABS.

Submit completed applications to: Dr. Jay Bolin, Department of Biology, Catawba College, 2300 W. Innes Street, Salisbury, NC 28144; 704-637-4450; jfbolin@catawba.edu.

For the award requirements of other ASB affiliates, visit their respective website:
American Society of Ichthyologists and Herpetologists—http://www.asih.org/
Southeastern Microscopy Society—http://www.semicroscopy.org
Southern Society of Parasitologists—http://asp.unl.edu

SPECIAL AWARDS

THE ROBERT H. MARTIN PROFESSIONAL EXCELLENCE AWARD

Sponsored by Martin Microscope Company, this ASB award is established to honor the memory of Robert H. Martin, Sr., founder of Martin Microscope Company. ASB members are invited to nominate outstanding ASB scientists, educators, and professionals to receive the Robert H. Martin Professional Excellence Award, established in 2008 and sponsored by Martin Microscope Company. In keeping with the example of the award namesake, nominees must be ASB members who have devoted a major portion of their career to energetic, creative commitment and skillful, effective service to biology education, biology research, and/or the biology profession. This award is only presented when the award committee identifies an exceptional, qualified nominee. Recipients are honored at the Awards Banquet during the ASB Annual Meeting and will receive a plaque and a cash award. The amount of the cash award is to be determined by the Robert H. Martin Award Fund Committee. Nominations must include a detailed written description of the candidate’s qualifications. Nominations may be submitted at any time.

Please send nominations to: Tim Atkinson, ASB Treasurer, 2700 York Rd., Burlington, NC 27215, tim.atkinson@carolina.com.
**The John Herr Lifetime Achievement Award**

This prestigious award was established by the Association of Southeastern Biologists in 2007 to recognize unusually significant contributions by its members to the life of the Association and to biology in the southeastern US. The award was first presented to its namesake, Distinguished Professor Emeritus John Herr (Department of Biological Sciences, University of South Carolina), by President Kim Marie Tolson in Columbia, South Carolina on April 20, 2007, on the occasion of the 68th Annual Meeting of the Association. This award is to be presented at an Annual Meeting of the Association to no more than one recipient, but there is no requirement that it be given every year.

A nominator wishing to submit a candidate for this award to the Association must prepare a nomination package on behalf of the candidate, following the guidelines below. The package is to be conveyed to the President of the Association by June 15 to be in competition for the award presented at the upcoming Annual Meeting. The President will appoint a committee consisting of three individuals, at least one of whom will be a Past President and the other two officers or former officers of the Association. That committee will consider all active packages and will report a nomination of a single award recipient (if any) to the President of the Association, who will present it to the interim Executive Committee (EC) meeting, held in September or October of each year. Upon a majority vote in favor of the nomination from the EC members present at such a meeting, the President will appoint an individual (typically the most recent Past President) to prepare a plaque and citation to be presented by the President to the recipient at the awards banquet during the upcoming Annual Meeting. Other nomination packages may be held over for consideration, for a maximum of two additional years, after which time unsuccessful packages will be returned to their nominators.

A recipient of this award must have contributed in ways that set her or him apart from other members of the Association. In particular, the recipient must have:

1. Demonstrated unusual and long-standing devotion to the Association through consistent efforts to improve and advance ASB, going beyond the standard duties of committee members and officers. The recipient must have demonstrated a willingness to serve the organization when asked for additional service.

2. Been a member in good standing of the Association for a minimum of ten years.

3. Served as an elected or appointed officer of the Association.

4. Contributed in a significant way to the Association’s purpose of promoting the advancement of biology as a science in the southeastern US, through research, education, solution of biological problems, conservation, public awareness of biological issues, and/or public service.

5. Have other accomplishments indicative of unusual dedication and service to the Association.
There must be letters of nomination from at least three members of the Association endorsing the nominee, one of whom must be a Past President. Additional letters of support from other members are welcome, but not required. The letters of nomination must be as specific as possible concerning the five points outlined above. In addition, the letters of nomination must outline what the candidate has done that sets her or him apart from other members of the Association. The nomination package must also contain the candidate’s curriculum vitae.

Honor Thy Teacher!
ASB MERITORIOUS TEACHING AWARD
DEADLINE JANUARY 31, 2014

Each year the Association of Southeastern Biologists recognizes one of its members for especially meritorious teaching. Carolina Biological Supply Company, Burlington, North Carolina, generously sponsors this $1500 award, which will be presented together with a plaque and appropriate citation at the Annual Banquet in Spartanburg, South Carolina, April 2-5, 2014. The Meritorious Teaching Award Committee each year selects the award winner

- from among those who have been members of the association for at least 10 years
- and who have taught biology for at least ten years in any college or university represented in the association.

There is no restriction on the size of the institution, nor must the institution have a graduate program. The award simply recognizes highly effective teaching

- as highlighted in nominations from former students or colleagues.

There are many deserving teachers in ASB; however, these individuals cannot nominate themselves, so former students or colleagues must take an active role in assembling the materials that the committee will then evaluate.

We urge you to take the lead, pass the word – serve as the coordinator and nominate a deserving teacher! Solicit supporting letters from the nominee’s present and former students. Contact his or her colleagues for additional endorsements. Document any form of recognition by the nominee’s home institution of excellence in teaching, as well as special assignments and mentoring roles facilitating good teaching. Of special note would be the number and quality of students for whom the nominee provided primary inspiration to continue their study of biology, especially for students who subsequently earned advanced degrees. In short, document the educational impact this individual has made by virtue of his or her role as a biology professor.

Nominators should prepare a portfolio containing at least a letter of nomination, the nominee’s current curriculum vitae, and supporting letters, together with the Nomination Form for the Meritorious Teaching Award and other relevant documentation. Submit all materials in triplicate by the January 31 deadline to: Dr. R. Wayne Van Devender, Department of Biology, Appalachian
State University, Boone, NC; vandevenderr@appstate.edu. If you have any questions, please call me or send an email. Files for previously nominated candidates who did not receive the award will remain active for two additional years, and these files may be updated. Such updated files are very carefully considered by the committee. The committee would welcome the task of deciding among several candidates.

Thanks for taking the initiative to nominate your favorite teacher!

Dr. R. Wayne Van Devender, Chair
ASB Meritorious Teaching Award Committee

NOMINATION–ASB MERITORIOUS TEACHING AWARD, 2014

NAME: __________________________________________________________

ADDRESS: _____________________________________________________

TEACHING INTEREST: _____________________________________________

NOMINATOR NAME/ADDRESS: _____________________________________

________________________________________________________________

SUPPORTING DOCUMENTATION (to be submitted in triplicate):
Letter of Nomination _____; Nominee’s Curriculum Vitae_____; Supporting letters _______; Verification of Nominee’s Minimum 10-Year Membership in ASB ______; Additional Information (list) __________________________.

ASB Lucrecia Herr Outstanding Biology Teacher Award ($750)

ASB maintains an enrichment fund to sponsor long- and short-range objectives to advance biological education through teaching and research. The Enrichment Fund Board is chaired by Michael Dennis. As has been the custom for the past several meetings, ASB recognizes individuals for their achievements and dedication to biology education at the secondary school level. The awardee is invited to attend the annual meeting and be honored. The use of money from this fund shows appreciation for excellence in teaching at the secondary level, and to reach out to our colleagues in the teaching profession. Contributions to the fund can be made at the annual meeting or can be sent to the Treasurer of ASB whose address can be found in the inside front cover of this issue.
ALL TAXA BIODIVERSITY INVENTORY (ATBI)

GATLINBURG, TENNESSEE

ATBI is an organization devoted to surveying all life in the Great Smoky Mountains National Park.

More information about the ATBI and Discovery Life in America (DLIA) may be obtained from the Executive Director, Todd Witcher, by e-mail todd@dlia.org. The website is http://www.discoverlifeinamerica.org or at http://www.dlia.org. The mailing address is Discover Life in America, 1314 Cherokee Orchard Road, Gatlinburg, TN 37738-3627. The telephone number is (865) 430-4752.

SOUTHERN APPALACHIAN FOREST COALITION (SAFC)

ASHEVILLE, NORTH CAROLINA

As stated in their newsletter Across Our Mountains, SAFC is an organization dedicated to “working together to protect and restore southern Appalachian forests.”

More information about SAFC may be obtained from their web site at http://www.safc.org, and by e-mail at safc@safc.org. The mailing address is Southern Appalachian Forest Coalition, 46 Haywood Street, Suite 323, Asheville, North Carolina 28801-2838. The telephone number is (828) 252-9223.
Dear ASB Member:

As you know, ASB strives to serve the educational and scientific community in many ways. These endeavors also serve the world community. ASB encourages the advancement of biology by

- The promotion of research in biology
- The increase and diffusion of knowledge of biology
- The application of biology to the solution of biological problems
- The preservation of biological resources
- Its meetings, reports, discussions, and publications to promote scientific interests and inquiry

Website: [http://www.sebiologists.org](http://www.sebiologists.org).

**PURPOSE**

The Association of Southeastern Biologists was established in 1937 by biologists concerned with the quality of biological research in the southeastern United States. Today, ASB is the largest regional biology association in the country, and is committed to the advancement of biology as a science by the promotion of science education, research, and the application of scientific knowledge to human problems.

**WHO WE ARE**

ASB members include faculty, students, researchers, conservation workers, military and government personnel, and business people with a common interest in biological issues in the southeastern United States. Interests are diverse but range from genetics and molecular biology, to physiology and population ecology, to community and ecosystem ecology.

**PATRONS**

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Southeastern Naturalist (Humboldt Institute), Steuben, ME  
Dwayne Wise, Mississippi State, MS

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Botanical Society of America, Southeastern Division  
Ecological Society of America, Southeastern Chapter  
Society of Wetland Scientists, South Atlantic Chapter  
Southeastern Microscopy Society  
Southeastern Society of Parasitologists  
Southern Appalachian Botanical Society  
Society of Herbarium Curators
AWARDS PRESENTED BY THE ASSOCIATION

The Association and its affiliates present a number of awards at the annual meeting. These include several for outstanding research, plus service awards.

ASB Awards

**Meritorious Teaching Award** – presented in recognition of outstanding teaching and mentoring of students. This is the association’s most prestigious award. Sponsored by ASB Patron Member Carolina Biological Supply Company, Burlington, NC.

**Lucrecia Herr Outstanding Teacher Award** – presented in recognition of outstanding dedication to biology education at the secondary school level. Sponsored by the ASB Enrichment Fund.

**Robert H. Martin Professional Excellence Award** – presented in recognition of devoting a lifetime career to biology education and research, and/or to the biology profession. Sponsored by ASB Patron Member Martin Microscope Company, Easley, SC in memory of company founder Robert H. Martin, Sr.

**John Herr Lifetime Achievement Award** – presented to recognize unusually significant contributions to the life of the Association of Southeastern Biologists and to biology in the southeastern USA. Sponsored by ASB.

**Student Research Award** – presented to a student member for outstanding research. A written manuscript is required as well as an oral presentation at the annual meeting. Sponsored by ASB Patron Member Martin Microscopy Company, Easley, SC.

**Brooks/Cole Cengage Learning Student Research Award in Aquatic Biology** – presented to that student whose research in aquatic biology is deemed outstanding. Sponsored by Brooks/Cole Cengage Learning, Southeastern USA.

**Senior Research Award** – presented to a senior member for outstanding research. A written manuscript is required as well as an oral presentation at the annual meeting. Sponsored by ASB Patron Member Marilyn S. Pendley, Hudson, NC.

**Student Poster Award** – presented to a student member who has the best overall poster at the annual meeting. Sponsored by ASB Patron Member AST Environmental, Decatur, AL.

**Travel Support Awards** – given to assist graduate students with expenses at the annual meeting. Sponsored by ASB Silent Auction.

**Research Award in Microbiology** – presented to a member for outstanding research in Microbiology. Sponsored by ASB.

Affiliate Awards

**The North Carolina Botanical Garden Award** – sponsored by the NCBG. Presented to a member for outstanding research which best advances our understanding of the biology and conservation of the southeastern plants.

**Eugene P. Odum Award** – sponsored by the Southeastern Chapter of the Ecological Society of America. Presented to a student member for the most outstanding paper presentation in the field of ecological research.
Elsie Quarterman-Catherine Keever Award – sponsored by the Southeastern Chapter of the Ecological Society of America. Presented to a student member for the most outstanding poster presentation in the field of ecological research.

Ichthyology and Herpetology Awards – sponsored by the Southeastern Division of the American Society of Ichthyologists and Herpetologists. Presented to a student member for outstanding research in each of the two categories.

Elizabeth Ann Bartholomew Award – sponsored by the Southern Appalachian Botanical Society. Presented to individuals who have distinguished themselves in professional and public service that advances our knowledge and appreciation of the world of plants.

Outstanding Student Paper and Poster Awards – sponsored by the Southern Appalachian Botanical Society. Presented annually to a student with best paper and to a student with best poster.

Earl Core Student Award – Sponsored by the Southern Appalachian Botanical Society. Presented annually to assist students with their research projects.

Richard and Minnie Windler Award – sponsored by the Southern Appalachian Botanical Society. Presented annually to the author or authors of the best systematic botany paper published in Castanea during the previous year.

Student Award in Plant Science – sponsored by the Southeastern Section of the Botanical Society of America. Presented to a student for the most outstanding paper presentation and to a student for the most outstanding poster in plant science.

Byrd Award – sponsored by the Southeastern Society of Parasitologists. Presented to a member for outstanding research in the field of parasitology.

Ruska Award – sponsored by the Southeastern Microscopy Society. Presented annually to recognize and reward student excellence in research in which microscopy is used as a research tool.

ANNUAL MEETING
Annual meetings are hosted by member institutions throughout the southeast. Meetings are in April, and include a distinguished plenary speaker, special symposia, field trips, oral and poster presentations of research, workshops, social events, exhibits, election of officers, and award presentations.

MEMBERSHIP
The Association of Southeastern Biologists currently has about 700 members, spread among 220 academic and 60 non-academic institutions.

ACTIVITIES
The Association publishes a quarterly bulletin, Southeastern Biology, which contains the program of the annual meeting and abstracts of papers presented, book reviews, science news and information about scientists in the southeast, Association affairs, and special features of regional or timely interest.
EIGHT REASONS TO BE AN ACTIVE ASB MEMBER

1. Online access to *Southeastern Biology*, the Bulletin of the Association.
3. Privilege of presenting papers and posters at the annual meeting.
4. Publication of your abstracts and articles in *Southeastern Biology*.
5. Participation in recognition, honors, and awards competition.
6. Representation of your interests in regional, national, and worldwide governmental, educational, and industrial programs concerning biology.
7. A vehicle to showcase and support students’ work in the biological sciences.
8. Participation is a commitment to your profession and your active support becomes part of over 75 years of significant biological legacy in the southeastern United States.

A contribution to the ASB Enrichment Fund will help to insure the continuation of these efforts. Please consider what you may do.

YES, I want to contribute to the ASB Enrichment Fund!

I enclose my contribution of $___________. Please use this to further the interests of ASB and its Members.

I would like to see the ASB Enrichment Fund used in the following areas (Check those you wish to support):

_____ Research Awards
_____ Student Research Awards
_____ Graduate Student Travel Grants
_____ Speakers & Programs for the Annual Meeting
_____ Outstanding Teacher Awards
Other (please list) __________________________________________________

Please make any **checks payable to ASB**. Please mail your contributions and ideas to:

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Association of Southeastern Biologists
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# Southeastern Naturalist

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Timothy J. Motley, the J. Robert Stiffler Distinguished Professor of Botany at Old Dominion University and director of science at the Norfolk Botanical Garden (NBG), died Thursday, March 28, after suffering a heart attack. He was 47.

Among his survivors are his wife, Tatyana Lobova, a lecturer in ODU’s Department of Biological Sciences, and 2-year-old son, Anton.

"His death is a great loss to botany at ODU," said Lytton J. Musselman, the university's Mary Payne Hogan Professor of Botany and a former department chair who recruited Motley nearly a decade ago. "He will be missed by his botanical colleagues, fellow faculty and especially students."

Musselman, who was on a botanical field trip with Motley and students just a few days before his sudden passing, said his colleague had arranged this semester an internship program enabling ODU students to work at NBG for credit. "That was one of his many legacies in his few years at ODU," Musselman added.

"Tim had the gift, unusual among plant scientists, of being able to communicate botany with the general public, an ability he used both at the (Norfolk Botanical) Garden and in teaching undergraduate courses at ODU," Musselman said. "His Ethnobotany course, dealing with the diverse ways humans use plants, was always popular and filled up soon after registration opened."

Motley, who grew up on a farm in central Illinois, became interested in plants and gardening at an early age. He earned bachelor's and master's degrees in botany at Eastern Illinois University. But for his doctoral work, he moved to the University of Hawaii, Manoa, and his core research became Pacific-based. "I am intrigued by how these remote islands became populated by plants and animals, and what the relationships are between plants that occur on separate islands or archipelagos," he said in an interview soon after arriving at ODU in 2006.

Prior to joining ODU, Motley was associate curator of the Lewis B. and Dorothy Cullman Program for Molecular Systematics Studies at The New York Botanical Garden. The molecular studies program was just getting started when he took a job there in 1997. "When I saw this position in Norfolk, I once again saw a chance to build a molecular plant research program with the NBG and Old Dominion," Motley said in the 2006 interview.

In the 1990s he secured adjunct faculty affiliations with City University of New York, Columbia University, New York University, Cooper Union and Yale University. After joining ODU he was named an adjunct at Minzu University in
Beijing, China, an eminent academician and scientist at the University of Madras, India, and a member of the graduate faculty at Real Jardin Botanico, Madrid, Spain.

Motley was the first researcher to hold the joint ODU/NBG professorship named for Stiffler, a former gardening columnist of The Virginian-Pilot and the author of "Gardening in Southeastern Virginia and Northeastern North Carolina." The professorship was made possible by a $1 million anonymous gift. Motley also directed ODU's Arthur and Phyllis Kaplan Orchid Conservatory.

Although Motley did research in the Pacific islands, he often pointed out that a plant group he studied has a close relationship to the bluets of the U.S. East Coast, where Stiffler's expertise was centered. Motley was an expert in molecular systematics, and used molecular techniques—for example, to study DNA—in order to learn the sort of evolutionary relationship that would tie bluets to plants on a Pacific island.

He won national praise for a book that he edited together with two colleagues and for which he wrote several chapters, "Darwin's Harvest: New Approaches to the Origins, Evolution, and Conservation of Crops." The book addresses concerns about the loss of crop-plant diversity throughout the world.

Motley also authored approximately 50 articles for refereed journals and delivered dozens of invited lectures in the United States and abroad.

A new species of plant in the coffee family was named in honor of Motley last year. The plant that is now known as Chiococca motleyana had previously been classified as the only member of the genus Asemnantha. Motley authored a journal article in 2005 describing DNA analyses he and colleagues had conducted on this small shrub. The article made a case for a reclassification to the genus Chiococca.

His research interests included the fields of plant systematics, population genetics, conservation, ethnobotany and reproductive biology. The studies focused on the molecular systematics of the coffee family (Rubiaceae) and the strychnine family (Loganiaceae). He was a member of the Association of Southeastern Biologists.

Motley organized botanical expeditions, which included one in 2002 to the island of Rapa Iti, Austral Islands, French Polynesia. This was the first extensive research project there since the 1930s and his research team discovered many new species and new island records. They estimated that their collections had increased the size of the existing flora by 10 percent. This was part of a larger program to study the endangered flora and remaining vegetation in the entire Austral archipelago.

He led expeditions in 2007 to the Galapagos Islands and in 2009 to the Louisiade Archipelago.


Musselman said a memorial service will be held at Norfolk Botanical Garden in May, but that arrangements are incomplete.

Compiled by James C. Raper, Office of Media Relations, Old Dominion University, Norfolk, VA 23529.
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