Tennessee Academy of Science

*TAS*

Program

of the

117th Meeting

Volunteer State Community College
Gallatin, Tennessee
November 15-16, 2007
Institutional Sustaining Members of the Tennessee Academy of Science

Austin Peay State University
Middle Tennessee State University
Motlow State Community College
Rhodes College
Tennessee Technological University
The University of Tennessee, Knoxville
The University of Tennessee at Martin
The University of Tennessee Space Institute
Volunteer State Community College

Affiliated Societies of the Tennessee Academy of Science

American Association for the Advancement of Science
Barnard Astronomical Society
Clarence T. Jones Memorial Observatory
National Association of Academies of Science
Tennessee Association of Science Department Chairs
Tennessee Entomological Society
Tennessee Psychological Association
Tennessee Junior Science and Humanities Symposium
Tennessee Science Teachers Association

TAS Home Page Information
For information about TAS, including information for the annual and collegiate division meetings, the Tennessee Visiting Scientist Program, the membership list, and more, visit the TAS website at:
http://www.mtsu.edu/~tnacadsc/

TAS Future Meeting Sites
2008 with Tennessee Science Teachers Association, Nashville
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ANNOUNCEMENTS

Registration: Meeting attendees may register by mail (see previous mailing) or onsite in the Pickel Field House on November 16, 7:30 AM–1:00 PM
Luncheon Tickets. Extra tickets may be available for $10 at the Registration Desk.
Membership: Application forms for membership in the Tennessee Academy of Science will be available at the Registration Desk. A completed application accompanied by first year dues may be left for the TAS Treasurer at the Registration Desk or mailed to: Dr. Steven Murphree, Department of Biology, Belmont University, 1900 Belmont Blvd., Nashville, TN 37212-3758. Current annual dues by category are: Regular $30; Sustaining, $35; Supporting, $40; Life, single payment $300; Student or Emeritus, $10. Membership includes a subscription to the TAS Journal.
MEETING SCHEDULE

Thursday, November 15

5:30 - 10:00. Executive Committee Meeting and Dinner
Wood Campus Center, Carpeted Dining Room 6:30

Friday, November 16

7:30 - Registration and Continental Breakfast
Pickel Field House

8:30 - 12:00 2007 TAS General Assembly and Business Meeting
Pickel Field House

8:45 - 9:45 TAS Symposium: Dr. Linda Slakey,
National Science Foundation
Pickel Field House

9:00 - 1:00 Poster Session (attended 11:00-12:00)
Rochelle Center

9:00 - 10:30 Science Chairs Meeting
Moore Conference Room, Thigpen Library, 2nd Floor

9:45 - 10:00 Break

10:00 - 11:00 TAS Plenary Session: Mr. Kent Syler
U.S. House of Representatives
Pickel Field House

11:00 - noon TAS Business Meeting
Pickel Field House

Noon - 1:00 Luncheon
Pickel Field House

1:10 - closing Section Business and Technical Sessions
Warf and Wallace Buildings
2007 TAS GENERAL ASSEMBLY
8:30-12:00
Pickel Field House

WELCOME
Dr. Cindi Smith-Walters, 2007 TAS President-Elect
Dr. Warren Nichols, President, Volunteer State Community College

2007 TAS SYMPOSIUM
8:45-9:45
Dr. Linda Slakey
Director, Division of Undergraduate Education
National Science Foundation
Directions in Undergraduate STEM Education

2007 TAS PLENARY ADDRESS
10:00-11:00
Mr. Kent Syler
Chief of Staff for U.S. Representative Bart Gordon
Rising Above the Gathering Storm

BUSINESS MEETING
11:00-noon
Dr. George E. Webb, 2007 TAS President, Presiding
Section Business Meeting: Election of Officers for 2008

A Report On The All Taxa Biodiversity Inventory At Montgomery Bell State Park. L. Welch, Tennessee State Parks.

An Update On The Family Styracaceae In Kentucky And Tennessee. E. Chester, Austin Peay State University.


A Flora Of The North Chickamauga Creek Gorge State Natural Area. S. Huskins* and J. Shaw, University of Tennessee at Chattanooga.

Natural Chestnut-Chinquapin Hybrids Are Confounding Taxonomy: A DNA Sequence-based Inquiry Into Putative Hybrid Castanea Populations In The Southeastern United States. M. Binkley*, H. Craddock, F. Dane, and J. Shaw, University of Tennessee at Chattanooga and Auburn University.


Break

Analyzing The Spread Of Invasive Plants Using Geographic Information Systems And Herbarium Specimens. R. Miller*, J. Shaw, and A Carroll, University of Tennessee at Chattanooga.


The American Chestnut Backcross Breeding Program In Tennessee. C. Cropper, Volunteer State Community College.

A Retrospective Of Volunteer State Community College’s Participation In The All Taxa Biodiversity Inventory At Edgar Evins State Park. R. Barber, Baylor University at Waco, Texas.

* student author    # presenting author, if not first author
1:10 Section Business Meeting: Election of Officers for 2008


1:30 Developing And Evaluating Molecular Methods For Detecting The Amphibian-Cidal Fungus, Batrachochytrium Dendrobatidis. D. Henley*, B. Rothermel, and C. Brooks, Austin Peay State University. (C&M)

1:45 Using Micromirrors To Obtain Three-Dimensional Images Of Cells. C. Wright*, K. Seale, R. Reiserer, E. Boczko, C. Stowers and J. Wikswo, Vanderbilt University. (C&M)

2:00 Pinocytic Loading Of Primary T cells. M. Marschner, Vanderbilt University (C&M)

2:15 Toxicology Studies Using Microfluidic Devices and T Cells. P. Sivasubramaniam*, Vanderbilt University. (C&M)

2:30 Blood Sorting In Microfluidic Devices. E. Chung, Vanderbilt University. (C&M)

2:45 Break

3:00 Comparative Analysis Of DNA-based Assays And ELISA Antigen/Antibody For Detecting Dirofilaria immitis – Heartworm disease. J. Marin* and C. Brooks, Austin Peay State University (Micro)

3:15 Endemicity Of Borrelia burgdorferi Infected Ticks From Montgomery County. C. Russell* and C. Brooks, Austin Peay State University (Micro)

3:30 A Look At Some State-Based Obesity Prevention And Management Programs In Children And Adolescents, What Lessons Can Tennesseans Learn? E. Jator, Austin Peay State University. (H&M)

3:45 Evaluation Of Melittin As A Novel Drug Therapy For Lyme Disease. J. Vazquez* and C. Brooks, Austin Peay State University. (H&M)

4:00 How Safe Is The Food In Your Refrigerator? S. Godwin, FurChi Chen, and R. Coppings#, Tennessee State University. (H&M)

* student author    # presenting author, if not first author
Section Business Meeting: Election of Officers for 2008

A Computational Look At The Structures Of Several Organosilylmagnesium Halide Adducts. W. H. Ilsley, Middle Tennessee State University.

New Thiosemicarbazones For Environmental, Medicinal, And Analytical Research. E. C. Lisic, Tennessee Technological University.


Break

Potential Use Of LC/MS/MS or GC/MS* In Immediate Warrant Issuance Of A Suspected Clandestine Methamphetamine Laboratory. J. O. Boles, Tennessee Technological University.


History Of The TAS Chemistry Section: 1940-2007. J. X. Corgan and M. V. Stewart#, Austin Peay State University and Middle Tennessee State University.

Nanofabrication Through Intensified Plasma Assisted Processing. E. de Silva# and M. Gibbs *#, Lincoln Memorial University.

Closing Remarks Including a Progress Report for the 2008 Southeastern Regional Meeting of the American Chemical Society (SERMACS 2008) To Be Hosted by the Nashville ACS Section.

* student author  # presenting author, if not first author
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<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>1:10</td>
<td>Section Business Meeting: Election of Officers for 2008</td>
<td>Adel Salama, Presiding, Austin Peay State University</td>
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<tr>
<td>1:15</td>
<td><strong>Evaluation of Phase Change Materials For Energy Conservation.</strong></td>
<td>David W. Yarbrough, R&amp;D Services, Inc., Cookeville, TN.</td>
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<tr>
<td>1:30</td>
<td><strong>A History Of The Engineering Section Of The Tennessee Academy Of Science, 1955-2006.</strong></td>
<td>James X. Corgan, Austin Peay State University (retired), David W. Yarbrough#, Tennessee Technological University (retired).</td>
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<tr>
<td>1:45</td>
<td><strong>Smooth Muscle Cells Signaling Model Of Dynamic Cerebrovascular Regulation.</strong></td>
<td>N. Narayanan* and M. L. Daley, University of Memphis.</td>
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<td>2:00</td>
<td><strong>Mathematical Analysis Of Sunspot Activity.</strong></td>
<td>L. Rightmire* and M. L. Daley, University of Memphis.</td>
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<tr>
<td>2:15</td>
<td><strong>A Finite Element Analysis Study Of The Influence Of The Elastic Modulus Of The Nucleus Pulposus On The Biomechanical Performance Of A Model Of A Cervical Spine Motion Segment.</strong></td>
<td>Y. Li* and G. Lewis, University of Memphis.</td>
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<td>2:30</td>
<td><strong>Maintaining Long-Term Cell Viability In A Perfused Tissue Bioreactor System.</strong></td>
<td>Jenny Lu*#, Dmitry Markov, and Lisa McCawley, Vanderbilt University.</td>
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<tr>
<td>2:45</td>
<td><strong>Modifying Tracking In The Magnetic Tweezers System.</strong></td>
<td>E. Sinkala*, J. Mecklenborg, F. Baudenbacher, and J. Wikswo, Vanderbilt University.</td>
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<td>3:00</td>
<td><strong>Break</strong></td>
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<td>3:45</td>
<td><strong>An Easy Way To Approximate A Hexagonal Polyhedron From A Cube.</strong></td>
<td>Chin-Zue Chen, Austin Peay State University.</td>
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<tr>
<td>4:00</td>
<td><strong>The Development of Intelligent Systems using Soft Computing Algorithms.</strong></td>
<td>Ashraf Saad, and Adel Salama#, Armstrong Atlantic State University, Savannah, Georgia and Austin Peay State University.</td>
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<tr>
<td>4:15</td>
<td><strong>Extensive Curriculum Revisions For The Engineering Technology Department At Austin Peay State University.</strong></td>
<td>Adel Salama, Austin Peay State University.</td>
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* student author  # presenting author, if not first author
1:10  Section Business Meetings: Election of Officers for 2008

1:15  Water Quality In Cookeville Area – Year 2 Study.  R. C. Lee, C. W. Li, T. Tu, P. Li, Cookeville High School (RCL, TT), Harvard University (CWL), Tennessee Technological University (PL).

1:30  Campus Expansion Feasibility Study Using GIS.  B. F. Richey*, Tennessee Technological University.

1:45  Carbon Dioxide In Watershed.  P. Li, Tennessee Technological University.

* student author  # presenting author, if not first author
HISTORY of SCIENCE  
Warf 120  
James X. Corgan, presiding  
Emeritus, Austin Peay State University

1:10  Section Business Meetings: Election of Officers for 2008


1:30  Weather Along The Trail Of Tears. M. A. Rose, National Weather Service, Old Hickory, TN.

1:45  Sources for the History of Science and Technology in Tennessee. J. X. Corgan, Austin Peay State University.

2:00  Derivation Of Kepler’s Equation. K. J. Ryan, Christian Brothers University.


2:30  Scientific American Goes To War, 1914. G. E. Webb, Tennessee Technological University.

* student author  # presenting author, if not first author
1:10  Section Business Meeting: Election of Officers for 2008

1:15  4-Move Equivalence Of Knots Up To 10 Crossings.  R. K. Sahi, M. K., Dabkowski, N. A. Khan*, Austin Peay State University and University Of Texas At Dallas, Richardson, TX (MD, NK).

1:30  Poisson Process Models For A Combination Of Points And Counts In Space.  H. Wu and M. Kaiser, Austin Peay State University and Iowa State University, Ames, Iowa.

1:45  A Semiparametric Approach To Linear Regression, M. Allen and D. Long*, Tennessee Technological University and the University of North Carolina, Chapel Hill, NC.

2:00  Action Of Real Forms Of Semi-Simple Lie Groups On Complex Flag Manifolds. B. Ntatin, Austin Peay State University.


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There will be no business meeting for this Section in 2007

Nanofabrication Through Intensified Plasma Assisted Processing.  E. de Silva# and M. Gibbs *##, Lincoln Memorial University.  [to be presented in Engineering or Chemistry]
1:10  Section Business Meeting: Election of Officers for 2008

1:15  Applied Research In Physics. E. de Silva# and A. Jzero Canfield*, Department of Mathematics and Natural Sciences, Lincoln Memorial University.

1:30  A Three-Semester Sequence For Undergraduate Research. L. McGrew, Belmont University.


2:00  Differentiated Instruction In The Science Classroom. L. Gostowski, Middle Tennessee State University.

2:15  Using Biographies Of Scientists And A Constructivist Approach To Teaching Undergraduate Science Courses. A. D. Panvini, Belmont University.


2:45  Nano-science Workshop For Nashville Public School Science Teachers. W. Lu#, S. Baker, and R. P. H. Chang, Fisk University, Metropolitan Nashville Public Schools, Department of Materials Science and Engineering, Northwestern University, Evanston, IL.

* student author   # presenting author, if not first author
Section Business Meeting: Election of Officers for 2008


Lineage Effects On Inbreeding Coefficients Of A Solitary Carnivore. P. Atairu*#, A. Nasir*, J Hisey*#, M. Kennedy, and B. Carver*, Lee University (PA, AN, and JH), The University of Memphis (JH, MK, and BC), and Freed Hardeman University (BC).

Food Habits Of The Coyote (Canis latrans) In Western Tennessee. Jeremy S. Dennison* and Michael L. Kennedy, The University of Memphis.

An Assessment Of Species Richness And Habitat Heterogeneity Of Small Mammals In Colima, Mexico. J. Erin Fender* and Michael L. Kennedy, The University of Memphis.


Preliminary Observations On Habitat Preference, Movement Patterns, And Survival Of Introduced Juvenile Alligator Snapping Turtles (Macrochelys temminckii). Joshua T. Ream and A. Floyd Scott, The Center of Excellence for Field Biology, Austin Peay State University.

Habitat Use And Spatial Dispersion Of Eastern Pipistrelles, Pipistrellus subflavus, In A Human-Impacted Cave System. Riley Seth McCormick1 *, Sarah Jo Jenkins2, Eric Johansen1, Morgan Kurz1 and Andrew N. Barrass1, 1Center of Excellence for Field Biology, Austin Peay State University, 2 School of Agriculture, The University of Tennessee at Knoxville.

A Two Year Study Of Over-Winter Survival Rates Of Timber Rattlesnake, Crotalus horridus, From An Artificial Hibernaculum. Danny L. Bryan, Cumberland University.

Effects Of Confinement And Temperature On Plasma Levels Of Corticosterone In The Northern Watersnake, Nerodia sipedon (Colubridae: Natricinae). Kyle L. Stokes* and Matthew Klukowski, Middle Tennessee State University.


* student author  # presenting author, if not first author
ZOOOLOGY (cont.)


POSTERS ON DISPLAY
Rochelle Center

*student author  # presenting author, if not first author

BOTANY

Diversity Of Soil Bacteria Around Native And Exotic Plants. A. Nause* and D. Panvini, Belmont University.

Insect Herbivory On Exotic Vinca And Native Goldenseal. A. O'Steen* and D. Panvini, Belmont University.

A Preliminary Floristic Survey Of The Tennessee River Gorge Grant Tract, Marion County, Tennessee. I. Cohen* and J. Shaw, University of Tennessee at Chattanooga.

Enhanced Nonphotochemical Dissipation Of Excitation Energy During The Development Of Photochemistry In Selenastrum capricornutum. J. Greenman* and J. Lebkuecher, Austin Peay State University.

CELL AND MOLECULAR BIOLOGY

A Comparison Of Visual Versus Olfactory Cues For Mate Selection In Zebrafish, Danio rerio. Z. Caro* and L. McGrew, Belmont University.

The Effects Of Caffeine On Learning In Zebrafish, Danio rerio. A. Gilliland* and L. McGrew, Belmont University.


Nicotine Facilitates Learning In Zebrafish, Danio rerio. R. Repasky* and L. McGrew, Belmont University.

Role Of Serotonin In Caffeine-induced Locomotory Changes In Caenorhabditis Elegans. Stupar* and L. McGrew, Belmont University.


Sequencing Candidate Genes For Drought Tolerance In Alfalfa (Medicago sativa L.) S. Celada*, R. Lovett*, and M. Sledge, David Lipscomb University.

Differential Localization Of MMP-2 Isoforms In Autoimmune Thyroid Tissue. N. Mohyuddin* and M. W. Thompson#, *Belmont University and #Middle Tennessee State University.


The Effect Of Estradiol-17β, Progesterone And Dibutyrl-cAMP On Expression of Oxytocin Receptor mRNA. E. Hadley* and S. Lundin-Schiller, Austin Peay State University.

Caenorhabditis elegans Immune Pathways In Defense Against Streptococcus pneumoniae. S. May* and N. Ragsdale, Belmont University.
POSTER PRESENTATIONS

CELL AND MOLECULAR BIOLOGY (cont.)

The Short Term And Long Term Effects Of 6-OHDA Treatment In Caenorhabditis elegans. C. Wilson* and N. Ragsdale, Belmont University.

The Effect Of 6-OHDA Treatment On Parkin And Alpha-Synuclein Homologues Levels In Caenorhabditis elegans. J. Rix* and N. Ragsdale, Belmont University.

Formation Of A20:UDG Complex And Identification Of Monoclonal Antibodies That Disrupt The Complex. S. Brandt* and D. Chattopadhyay (TAS sponsor: N. Ragsdale), Belmont University and the University of Alabama Birmingham.

CHEMISTRY

The Polycoupling Approach To Substituted Thiophenes. S. T. Varallo* and S. T. Handy, Middle Tennessee State University.

The Polycoupling Approach To Substituted Thiophene Aldehydes. D. M. Mayi* and S. T. Handy, Middle Tennessee State University.

The Polycoupling Approach To Substituted Furans And Pyrimidines. S. C. Chesak* and S. T. Handy, Middle Tennessee State University.

The Polycoupling Approach To Substituted Thiazoles. T. Walker* and S. T. Handy, Middle Tennessee State University.

The Synthesis Of Fluorine-Containing Chalcones. A. Guerrero* and D. J. Swartling, Tennessee Technological University.

Synthesis Of Isomers Of 2,3-Dihydroxy-1,4-butanamine. C. Davis* and N. K. Dunlap, Middle Tennessee State University.

Alternative DNA Staining Strategies In Agarose Gel Electrophoresis In Forensic Analysis. A. Nguy* and J. O. Boles, Tennessee Technological University.


The Knovenagel Reactions Of Meldrum's Acid With Aldehydes And Ketones. D. Roubik* and D. J. Swartling, Tennessee Technological University.

Aurones: Synthesis And Photophysical Properties. C. Boller* and S. T. Handy, Middle Tennessee State University; and S. Bane, Binghamton University, Binghamton, NY.

An Investigation Of The PLP- -Chlora-Alanine Reaction By LC/MS/MS. T. King* and J. O. Boles, Tennessee Technological University.

Synthesis Of Cyclopropyl And Tetrazole Peptidomimetics Of D-ala-D-ala. E. Hawkins*, P. Singer*, and N. K. Dunlap, Middle Tennessee State University.

Electronic Structure And Oxidation Of Manganese Dimers [Mn(SALPN)(OCH3)]2 And [Mn2(SALPN)3]. M. Clay* and R. M. Jones, Austin Peay State University.
Suzuki Couplings On Quinolines. A. Piala* and S. T. Handy, Middle Tennessee State University.


Coulombic Model Of The Anomalous Conformations Of The Chlorinated Acetates. T. A. Barnes* and P. J. MacDougall, Middle Tennessee State University.

Chemical Profiling Clandestine Methamphetamine. B. Maldireddy* and J. O. Boles, Tennessee Technological University.


Lipid Peroxide Levels In Methyl-Linolenate Following Exposure To Low Levels Of Iron. A. Baxley* and W. Y. Boadi, Tennessee State University.

Mutation Of Yeast Cells To Produce Mitochondria-Deficient Strains With High Ethanol Tolerance. K. R. Lankford* and B. G. Ooi, Middle Tennessee State University.


Analysis Of Volatile Organic Compounds By Sorbent Tube And Infrared Spectroscopic Techniques. C. Lampert* and N.-S. Chong, Middle Tennessee State University.


Determination Of NMR Parameters Needed To Study miRNA. P. Mnirajd* and J. C. Howard, Middle Tennessee State University, and E. Dawson, BioVentures, Inc., Murfreesboro, TN.

A Fluorescence And Kinetic Study Of The Interaction Between Gabapentin And Tissue Transglutaminase. J. Gunter*, D. J. Swartling, and J. O. Boles, Tennessee Technological University.

Probing The DNA-Binding Capability Of 4-Aminobiphenyl And Its Metabolites By Raman Spectroscopy. E. M. Fikremariam* and B. G. Ooi, Middle Tennessee State University.

POSTER PRESENTATIONS

CHEMISTRY (cont.)

Nickel And Copper Modulates Glutathione Levels In U937 Cells.  S. Harris* and W. Y. Boadi, Tennessee State University.


GEOLOGY AND GEOGRAPHY

Geographic Distribution Of Old, High-Level Alluvial Deposits In East-Central Tennessee, And Implications For Origin.  J. L. Gentry*, Tennessee Technological University.

Land Use Land Cover Change In A Small Rural Watershed. – G. J. Rhinehart*, Tennessee Technological University.

HEALTH AND MEDICAL SCIENCES

Effects Of Two Different Types Of Cellular Phone Conversations On Gait Characteristics While Walking.  T. McDonough* and C. S. Murphree, Belmont University.


MICROBIOLOGY

Hydrogen Production By Cyanobacteria And Algae In Hollow-Fiber Photobioreactors.  C. Wilkins*# and S. Markov, Austin Peay State University.

Detection And Differentiation Of Borrelia Species Using A Novel Non-Fluorescence Based Biosensor.  K.A. Barber*, N.F. Brady, W.R. Robertson and S.M. Wright, Middle Tennessee State University.


Testing Disinfectants For Antifungal Activity.  B. Tahriri* and J. M. Zamora, Middle Tennessee State University.
POSTER PRESENTATIONS

PHYSICS AND ASTRONOMY


SCIENCE AND MATH TEACHING

Correlation Of The Densities Of Antifreeze Concentrations With The Drop In Freezing Points. T. Horseman* and B. A. Jackson, Tennessee Technological University.


ZOOOLOGY

Examining The Impact Of Human Activity On Swan Lake. J. Neblett* and D. Panvini, Belmont University.

Use Of The Tennessee Department Of Environment And Conservation "Save Our Stream" Survey At Big Mcadoo Creek In Montgomery County Tennessee. Y. Eaton*, R. Jordan* and W.S. Burton, Austin Peay State University.

A Stream Assessment And Monitoring Project Of Two Streams Along The State Route 79 Road Construction In Stewart County, Tennessee: The Preliminary Study. L.J. Inglis* and W.D.S. Burton, Austin Peay State University.

Salamander Species Of Montgomery County, Tennessee In Rural And Urban Streams. R.N. Jobes*, A.D. Pace* and W.D.S. Burton, Austin Peay State University.

Distribution Of Aquatic Coleoptera In The Milan Army Ammunition Plant, Carroll and Gibson Counties, TN. J. J. Miller* and S. W. Hamilton, Austin Peay State University.

Herpetofaunal Diversity And Abundance At Cattle-Access And Non-Cattle Access Ponds At The Milan Army Ammunition Plant, Gibson And Carroll Counties Tennessee. B. Beas* and A. F. Scott, Austin Peay State University.

Aquatic Macroinvertebrate Diversity In Natural Riffle, Artificial Riffle, And Pool Habitats From A Northwest Tennessee Stream. T. Duke* and N. Buschhaus. University of Tennessee at Martin.
POSTER PRESENTATIONS

ZOOLOGY (cont.)

Relatedness And Inbreeding In Eastern Subterranean Termite Populations At Montgomery Bell State Park, Dickson County, Tennessee. I. L. Beck*, S. Murphree and E. Vargo, Belmont University and North Carolina State University, Raleigh, North Carolina.

Preliminary Results Of Treefrog Occupancy Surveys In Western Kentucky And Adjacent Tennessee. L. Robertson* and B. Rothermel, Ph.D, Austin Peay State University

Use Of TreeTop Peeper™ To Investigate Cavity Succession In A Fragmented Habitat. C.L. Sesler* and H. D. Wilkins, University of Tennessee at Martin.

The Efficacy Of Selected Over-The-Counter Chemical Repellents Against Aedes aegypti In Human Volunteer Laboratory Assays. C. Pedigo* and S. Murphree, Belmont University.

The Efficacy Of Selected Botanically Derived Biorepellents Against Aedes aegypti In Human Volunteer Laboratory Assays. M. Draper* and S. Murphree, Belmont University.

TAS Standing Committees 2007

Auditing and Financial Oversight Committee
Dr. Robert Grammer, Chair, Belmont University
Dr. Jon Lowrance, Lipscomb University
Dr. John Harris (advisory), Tennessee Technological University

Fellows Committee
Dr. Charles R. McGhee, Chair, Middle Tennessee State University
Dr. Gladius Lewis, University of Memphis
Brother Kevin Ryan, Christian Brothers College

Long Range Strategic Planning Committee
Dr. John Harris, Chair, Tennessee Technological University
Dr. Jeff Boles, Tennessee Technological University
Teresa Fulcher, Pellissippi State Community College
Karen Kendall-Fite, Columbia State Community College
Dr. Steven Murphree, Belmont University

Education Committee
Dr. Kim Cleary Sadler, Chair, Middle Tennessee State University
Dr. Cindi Smith-Walters, Middle Tennessee State University
Dr. Michael L. Daley, University of Memphis
Dr. Robert L. Hartshorn, University of Tennessee at Martin
Dr. Linda Jordan, Tennessee Department of Education
Dr. Robert Marlowe, University of Tennessee at Chattanooga
Dr. Jack Rhoton, East Tennessee State University

Membership Committee
Karen Kendall-Fite, Chair, Columbia State Community College
Dr. Gary Hall, David Lipscomb University
Dr. Jeffrey Lebkeucher, Austin Peay State University

Necrology Committee
Dr. Alexander Wells, Chair, Tennessee State University
Dr. George Murphy, Middle Tennessee State University
Dr. Wilburn A. Sliger, The University of Tennessee at Martin

Nominating Committee
Dr. John W. Harris, Chair, Tennessee Technological University
Dr. George E. Webb, Tennessee Technological University
Dr. Cindi Smith-Walters, Middle Tennessee State University

Publicity and Research Committee
Ms. Mandy Carter-Lowe, Chair, Columbia State Community College
Dr. Jeff Boles, Tennessee Technological University
Dr. Patricia Hull, Tennessee State University
Dr. Lewis Myles, Tennessee State University
Dr. Kim Cleary Sadler, Middle Tennessee State University
Mr. Roger D. Applegate, Tennessee Wildlife Resources Agency

Resolutions Committee
Ms. Sallie Noel, Chair, Austin Peay State University
Ms. Betty Davis, East Tennessee State University
Dr. David Pitts, University of Tennessee - Martin
2007 TAS Executive Committee

**Dr. George E. Webb, President**
Tennessee Technological University

**Dr. Cindi Smith-Walter, President-Elect**
Middle Tennessee State University

**Dr. John W. Harris, Past-President**
Tennessee Technological University

**Ms. Teresa Fulcher, Secretary**
Pellissippi State Technical Community College

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Belmont University

**Dr. M. Gore Ervin, Managing Editor**
Middle Tennessee State University

**Dr. Fred Matthews, Director -Collegiate Division**
Austin Peay State University

**Dr. James Howard, Director - Electronic Communications**
Middle Tennessee State University

**Dr. Jack Rhoton, Director - Junior Academy of Science**
East Tennessee State University

**Dr. Michael Daley, Director-Visiting Scientist Program**
The University of Memphis

**Dr. Kim Cleary Sadler, Chair, Education Committee**
Middle Tennessee State University

**Dr. John Harris, Long Range Planning Committee**
Middle Tennessee State University

**Ms. Mandy Carter-Lowe, Chair, Publicity and Research Committee**
Columbia State Community College

**Dr. Linda Jordan, State Science Consultant**
Tennessee Department of Education

**Dr. J. Michael Redding, Annual Meeting Coordinator**
Tennessee Technological University

**Dr. Steven Hamilton, Member-at-large, 2005-2007**
Austin Peay State University

**Dr. Jeffrey O. Boles, Member-at-large, 2006-2008**
Tennessee Technological University

**William H. Andrews, Member-at-Large, 2007-2009**
Oak Ridge National Laboratory

2007 Local Arrangements Committee

**Ms. Nancy Morris**
Driving Directions

Volunteer State Community College is located on Highway 31 East—which is also called Gallatin Road and/or Nashville Pike. The College is located on the main highway between Gallatin and Hendersonville at 1480 Nashville Pike.

If traveling Interstate 65:
Travel north (toward Louisville) and take the Vietnam Veteran Boulevard (exit 95) and travel approximately 14 miles to the Harris Lane Exit. Make a right on Harris Lane. Then make a right turn on Nashville Pike. Volunteer State Community College is on the right at the second stop light.

If traveling Interstate 40:
Travel east (from Nashville) or west (toward Nashville) and take the Gallatin exit onto Highway 109. Keep straight for approximately 15 miles to the Gallatin By-Pass (there is a “To Hendersonville” directional sign). Turn left onto the By-Pass and continue straight. Take the Hendersonville exit onto Gallatin Road and continue straight. Volunteer State’s main entrance is on the right at the fifth (5th) traffic signal.

If traveling Interstate 24:
Travel east (toward Chattanooga) and take I-24-E to Interstate 65 north (to Nashville). Take the Vietnam Veterans Blvd. (exit 95) and travel approximately 9 miles, until the road merges into Gallatin Road. Continue straight for approximately 3-1/2 miles. Volunteer State is on the left at the fourth (4th) traffic signal.

Campus Map and Parking Instructions

A campus map for Volunteer State Community College may be obtained at their official website: http://www.volstate.edu/Map/VSCC-Map.pdf. There will be reserved parking for the TAS meeting and all parking will be contiguous to the Pickel Field House and will be well-marked.

Overnight Accomodations

Recommended motels close to the Volunteer State Community College campus in Gallatin are listed on the TAS Website http://www.mtsu.edu/~tnacadsc/annualMeeting/index.html.